



GLASGOW



OHBM 2022

ABSTRACT LISTINGS

28TH ANNUAL MEETING OF THE
ORGANIZATION FOR HUMAN BRAIN MAPPING



ABSTRACT LISTINGS

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BRAIN STIMULATION

Deep Brain Stimulation

- MT001** **Predicting the location of the human subthalamic nucleus using anatomical fiducials**
Alaa Taha, Ali Khan, Jonathan Lau, University of Western Ontario, London, Canada
- MT002*** **Autoencoder-Based Deep Learning Classifier for Deep Brain Stimulation Parameter Settings by fMRI**
Afis Ajala, Jianwei Qiu, John Karigiannis, Aaron Loh, Jurgen Germann, Radhika Madhavan, Desmond Yeo, Alexandre Boutet, Gavin Elias, Andres Lozano, GE Global Research, Niskayuna, United States
- MT003** **Functional mapping of the vestibular cortex: electrical brain stimulation in patients with epilepsy**
Christophe Lopez, Zoé Dary, Jacques Léonard, Samuel Medina, Stanislas Lagarde, Fabrice Bartolomei, CNRS, Marseille, France
- MT004** **Prefrontal impact reduces freezing of gait after subthalamic nucleus deep brain stimulation**
Joshua Strelow, Juan Baldermann, Till Dembek, Jan Niklas Petry-Schmelzer, Hannah Jergas, Frederik Schott, Haidar Dafsari, Christian Moll, Alessandro Gulberti, Veerle Visser-Vandewalle, Monika Pötter-Nerger, Michael Barbe, University of Cologne, Faculty of Medicine and University Hospital Cologne, Cologne, Germany
- MT005** **Connectivity-Based Targeting for DBS in Essential Tremor: A Comparison of Tractography Methods**
Evangelia Tsolaki, Alon Kashanian, Nader Pouratian, University of California Los Angeles, Los Angeles, United States
- MT006*** **Clinical Correlates of fMRI Response to Deep Brain Stimulation**
Aaron Loh, Jürgen Germann, Afis Ajala, Jianwei Qiu, John Karigiannis, Alexandre Boutet, Radhika Madhavan, Gavin Elias, Mojgan Hodaie, Suneil Kalia, Alfonso Fasano, Andres Lozano, University Health Network, Toronto, Canada
- MT007** **Functional Connectivity of the STN in Parkinson's Disease: Focus on Deep Brain Stimulation**
Silvia Basaia, Federica Agosta, Luigi Albano, Camilla Cividini, Tanja Stojkovic, Elisabetta Sarasso, Iva Stankovic, Aleksandra Tomic, Elka Stefanova, Vladana Markovic, Pietro Mortini, Vladimir S. Kostic, Massimo Filippi, Ospedale San Raffaele, Milano, Italy
- MT008** **Resting-state functional connectivity predicts clinical outcomes in SCC DBS for TRD**
Jungho Cha, Ki Sueng Choi, Juna Khang, Justin Rajendra, Boadie Dunlop, Patricio Riva-Pose, Helen Mayberg, Icahn School of Medicine at Mount Sinai, New York, United States
- MT009** **Symptom specific connectivity as predictors of Deep Brain Stimulation outcome in Parkinson disease**
Nanditha Rajamani, Barbara Hollunder, Vincent Odekerken, Martin Reich, Rob de Bie, Jens Volkmann, Clemens Neudorfer, Petra Ritter, Wolf Julian Neumann, Andrea Kühn, Andreas Horn, Charite University, Berlin, Germany
- MT010** **Segregating the Prefrontal Cortex by Means of Deep Brain Stimulation**
Barbara Hollunder, Ningfei Li, Jill Ostrem, Mircea Polosan, Harith Akram, Matteo Vissani, Chencheng Zhang, Bomin Sun, Carsten Finke, Andrea Kühn, Alberto Mazzoni, Luigi Romito, Ludvic Zrinzo, Eileen Joyce, Stephan Chabardes, Philip Starr, Andreas Horn, Charité – Universitätsmedizin Berlin, Berlin, Germany

- MT011** **GPI and STN DBS for Parkinson's disease exert different effects on brain networks: An fMRI study**
Brendan Santyr, Aaron Loh, Jürgen Germann, Radhika Madhavan, Alexandre Boutet, Andres Lozano, University of Toronto, London, Canada
- MT012** **TFUS Targeting of Amygdala Predicts Changes In Perfusion & Psychophysiological Responses**
Bianca Dang, Norman Spivak, Sabrina Halavi, Sergio Becarra, Benjamin Rosenberg, Nolan Dang, Andrew Swenson, Natalie Rotstein, Sonja Hiller, Mauricio Vallejo-Martelo, Luka Cvijanovic, David Kronemyer, Rustin Berlow, Michelle Craske, Nanthia Suthana, Martin Monti, Susan Bookheimer, Taylor Kuhn, University of California, Los Angeles (UCLA), Los Angeles, United States
- MT013** **Deep Learning-based Reconstruction in the Connectomic Deep Brain Stimulation**
Ki Sueng Choi, Martijn Figee, Robert Lebel, Maggie Fung, Suchandrima Banerjee, Helen Mayberg, Jaemin Shin, Icahn School of Medicine at Mount Sinai, Edgewater, United States

Direct Electrical/Optogenetic Stimulation

- MT014*** **Electroconvulsive Therapy Responsive and Cognitive Impairment Multimodal Biomarkers in Depression**
Shile Qi, Vince Calhoun, Daoqiang Zhang, Jeremy Miller, Zhi-De Deng, Katherine Narr, Yvette Sheline, Shawn McClintock, Rongtao Jiang, Xiao Yang, Joel Upston, Tom Jones, Jing Sui, Christopher Abbott, Nanjing University of Aeronautics and Astronautics, Nanjing, China
- MT015** **Fine Control of Elicited Artificial Tactile Sensation by Multi-Site Direct Cortical Stimulation**
Seokyun Ryun, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of
- MT016** **Cognitive processes modulation by direct cortical stimulation**
Donghyeok Lee, June Sic Kim, Seokyun Ryun, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of
- MT017** **Spatial dissociation for L1 and L2 in the left temporal lobe of tumour patients and healthy subjects**
Lucía Manso-Ortega, Manuel Carreiras, Iñigo Pomposo, Santiago Gil-Robles, Ileana Quiñones, BCBL, San Sebastián, Spain

Non-invasive Electrical/tDCS/tACS/tRNS

- MT019** **Performance of optimal transcranial electrical stimulation limiting the number of active electrodes**
Mariano Fernandez Corazza, Santiago Collavini, Phan Luu, Carlos Muravchik, Don Tucker, National University of La Plata, La Plata, Argentina
- MT020** **Modulating Entrainment Timing of Gamma Oscillation at Occipital Alpha Enhances Dynamic Visual Acuity**
Jimin Park, Sangjun Lee, Da som Choi, Chang-Hwan Im, Hanyang University, Seoul, Korea, Republic of
- MT021** **Exploring an optimized anode position for prefrontal tDCS: a simulation study**
Jongseung Lee, TaeYeong Kim, Donghyeon Kim, NEUROPHET, Inc., Seoul, Korea, Republic of
- MT022** **Decoding frequency-specific modulation of fMRI network connectivity: a tACS study**
Tibor Auer, Romy Lorenz, Ines Violante, University of Surrey, Guildford, United Kingdom

- MT023** **Need for personalized and phase-matched transcranial alternating current stimulation (tACS)?**
Abhijit Chinchani, Ella Weik, Jessica Khangura, John Krotez, Meighen Roes, Christine Tipper, Todd Woodward, The University of British Columbia, Vancouver, Canada
- MT024** **Transcranial Stimulation Altered Metabolism of Motor-related brain regions in Depression Patients**
Junling Gao, Ben HB Hung, Marksman Man Man, Thuan-Quoc Thach, Cheuck Wing Andrew Tang, Roger Ng, Ka-fai Chung, Ed X Wu, Hinhung Sik, Joe Shi Cheng, Mengye Lyu, Zhang-jin Zhang, The University of Hong Kong, Hong Kong, China
- MT025** **Consequences of prefrontal brain stimulation on impulsivity – A simultaneous tDCS-fMRI study**
Dario Müller, Ute Habel, Carmen Weidler, University Hospital Aachen, Aachen, Germany
- MT026** **20 Hz TACS Modulates Dynamic Brain Network Interactions in Chronic Stroke**
Kai Yuan, Chengpeng Hu, Chun Hang Eden Ti, Cheng Chen, Raymond Kai-yu Tong, The Chinese University of Hong Kong, Hong Kong, Hong Kong
- MT027** **Non-invasive temporal interference electrical stimulation of the human hippocampus**
Ines Violante, Ketevan Alania, Antonino Cassarà, Esra Neufeld, Emma Acerbo, Romain Carron, Adam Williamson, Adam Hampshire, Niels Kuster, Edward Boyden, Alvaro Pascual-Leone, Nir Grossman, University of Surrey, Guildford, United Kingdom
- MT028** **The effect of white matter integrity on response to tACS in people with multiple sclerosis**
Nena Lejko, André Aleman, Jon Laman, Dorothea Heersema, Jan Meilof, Joke Spikman, Inge Zijdewind, Christoph Herrmann, Natasha Maurits, Ysbrand van der Werf, Remco Renken, Branislava Ćurčić-Blake, University Medical Center Groningen, Groningen, Netherlands
- MT029** **Entrainment of phase-amplitude coupling patterns with transcranial alternating current stimulation**
Xuanteng Yan, Georgios Mitsis, Marie-Hélène Boudrias, McGill University, Montréal, Canada

Non-invasive Magnetic/TMS

- MT030** **Concurrent TMS-fMRI – systematic review of methodological differences and sources of bias**
Yuki Mizutani-Tiebel, Kai-Yen Chang, Martin Tik, Aldo Soldini, Lucia Bulubas, Esther Dechantsreiter, Christian Windischberger, Frank Padberg, Daniel Keeser, Department of Psychiatry and Psychotherapy, LMU University Hospital Munich, Munich, Germany
- MT031** **A Robotic TMS System for Optimized Motor Mapping**
Benjamin Kalloch, Ole Numssen, Thomas Knoesche, Gesa Hartwigsen, Jens Haueisen, Konstantin Weise, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT032** **Robotic open source control platform for navigated transcranial magnetic stimulators**
Renan Matsuda, Victor Souza, Thais Marchetti, Petrus Kirsten, Risto Ilmoniemi, Oswaldo Baffa, Aalto University School of Science, Espoo, Finland
- MT033** **Connectivity- and simulation-optimized TMS targeting: A pilot single-subject TMS-fMRI validation**
Maximilian Lueckel, Angela Radetz, Kenneth Yuen, Florian Mueller-Dahlhaus, Raffael Kalisch, Til Ole Bergmann, Leibniz Institute for Resilience Research & Neuroimaging Center, University Medical Center, Mainz, Mainz, Germany

Sonic/Ultrasound

- MT040*** **Functional Motor Connectome Reconfiguration after MRgFUS Vim Thalamotomy in Essential Tremor**
Mario Stanziano, Giuseppe Messina, Nico Golfrè Andreasi, Sara Palermo, Jean Paul Medina, Sara Rinaldo, Greta Demichelis, Alberto Redolfi, Anna Nigri, Francesco Ghielmetti, Giulia Frazzetta, Giovanni Tringali, Ludovico D'Incerti, Francesco DiMeco, Roberto Eleopra, Maria Grazia Bruzzone, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milan, Italy, Milan, Italy

TDCS

- MT041** **Mapping neural circuitry modulated by transcranial direct current stimulation (tDCS) in depression**
Mayank Jog, Brandon Tarku, Rishikesh Kayathi, Michael Boucher, Gerhard Hellemann, Katherine Narr, Roger Woods, University of California Los Angeles, Los Angeles, United States
- MT042** **The effect of sensorimotor network-based tDCS on frequency-specific connectivity in triple networks**
Kaiwei Zhu, Hui He, Hechun Li, Manxi He, Cheng Luo, University of Electronic Science and Technology of China, Chengdu, China
- MT043** **The training effect of HD-tDCS with EMG-triggered robot hand training, a randomized control study**
Chengpeng Hu, Cheng Chen, Kai Yuan, Chun Hang Eden Ti, Raymond Kai-yu Tong, The Chinese University of Hong Kong, Hong Kong, China
- MT044** **Modulation of aggression by transcranial direct current stimulation and COMT Val/ Met polymorphism**
Carmen Weidler, Lena Hofhansel, Benjamin Clemens, Ute Habel, University Hospital RWTH Aachen, Aachen, Germany
- MT045** **Neural Correlates Associated with tDCS Benefit in Aphasia**
E. Susan Duncan, Louisiana State University, Baton Rouge, United States

TMS

- MT046** **Inter-individual variability in TMS target functional connectivity**
Shreyas Harita, Davide Momi, Frank Mazza, John Griffiths, University of Toronto, Toronto, Canada
- MT047** **Rapid TMS Localization of Finger Movement in the Brain: A Pilot Study**
Anna Leah Zier, Ole Numssen, Thomas Knösche, Gesa Hartwigsen, Konstantin Weise, Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT049** **Developing new measurement Techniques for Transcranial Magnetic Stimulation**
Gautier Hamoline, Robert Hardwick, Université Catholique de Louvain, Genappe, Belgium
- MT050** **Frequency-dependent entrainment of brain networks using transcranial magnetic stimulation**
Juliana Corlier, Andrew Wilson, Andrew Leuchter, University of California Los Angeles, Los Angeles, United States
- MT051** **Software for multi-locus transcranial magnetic stimulation**
Olli-Pekka Kahilakoski, Juuso Korhonen, Victor Souza, Roberto Guidotti, Dogu Baran Aydogan, Tuomas Mutanen, Andrey Zhdanov, Ana Soto, Jaakko Nieminen, Dubravko Kičić, Timo Roine, Risto Ilmoniemi, Aalto University, Espoo, Finland

- MT052 Evaluating frontal concurrent iTBS/fMRI in a predominantly therapy-resistant depressive patient**
Kai-Yen Chang, Martin Tik, Yuki Mizutani-Tiebel, Lucia Bulubas, Esther Dechantsreiter, Frank Padberg, Christian Windischberger, Daniel Keeser, Department of Psychiatry and Psychotherapy, University Hospital, LMU Munich, Munich, Germany
- MT053 High-resolution multi-coil TMS mapping of the orientation sensitivity of cortical motor pathways**
Victor Souza, Sergei Tugin, Jaakko Nieminen, Lari Koponen, Oswaldo Baffa, Risto Ilmoniemi, Aalto University, Espoo, Finland
- MT054 Motor Development Trajectory is Not Altered in Children with Seizure Disorders or Brain Tumors**
Anneliese Braden, Priya Yelemali, James Wheless, Shalini Narayana, University of Tennessee Health Science Center, Memphis, United States
- MT055* Dose Dependent effects of TMS on fronto-striatal connectivity. A 18F-DMFP PET study**
Usman Jawed Shaikh, Antonello Pellicano, Andre Schüppen, Oliver Winz, Alexander Heinzl, Felix Mottaghy, Ferdinand Binkofski, RWTH UNIKLINIK AACHEN, Aachen, Germany
- MT056 Interslice iTBS/fMRI: Continuous Imaging of Therapeutic Transcranial Brain Stimulation**
Martin Tik, Maria Vasileiadi, Michael Woletz, David Linhardt, Nolan Williams, Christian Windischberger, Medical University of Vienna, Vienna, Austria
- MT057 Modulating reward functioning using a combination of robotics, EEG, and TMS**
Travis Baker, Kathryn Biernacki, Rutgers University, Newark, United States

Invasive Stimulation Methods Other

- MT018 Signatures of electrical stimulation driven network interactions in the human limbic system**
Alma Gabriela Ojeda Valencia, Nicholas Gregg, Gregory Worrell, Brian Lundstrom, Benjamin Brinkmann, Tal Pal Attia, Matt Bernstein, Myung-Ho In, John III Huston, Jamie Van Gompel, Kai Miller, Dora Hermes, Mayo Clinic, Rochester, United States

Non-Invasive Stimulation Methods Other

- MT034* CAP-based fMRI neurofeedback enables bidirectional regulation of induced-hallucination networks**
Herberto Dhanis, Nicolas Gninenko, Nathan Faivre, Giulio Rognini, Jevita Potheegadoo, Olaf Blanke, Dimitri Van De Ville, EPFL, Geneva, Switzerland
- MT035 Representation of distance changes in Parahippocampal Place Area**
Xiaoqian Jiang, Qunjun Liang, Yuanyuan Yang, Yuanqi Cai, Guangtao Liu, Ruiwang Huang, South China Normal University, Guangzhou, China
- MT036 Alterations in Brain Function after TaVNS in Patients with Migraine without Aura**
Yuyang Rao, Yajue Chen, Huiyuan Huang, Bingqing Jiao, Lijun Ma, Jiabao Lin, School of Public Health and Management, Guangzhou University of Chinese Medicine, Guangzhou, China
- MT037 The Effect of Photobiomodulation using Near-infrared Spectroscopy on Mental Stress Relief**
Soyeon Park, JongKwan Choi, Jong Jin Lee, Suh-Yeon Dong, Sookmyung Women's University, Seoul, Korea, Republic of

- MT038 The Mechanism of Brain Activity Changes Caused by Cold Pain Stimulation**
Xiaoli Liu, Yang Qiao, Yin Huang, Yingjie Tang, Hui He, Dezhong Yao, Cheng Luo, University of Electronic Science and Technology of China, Chengdu, China
- MT039 Mapping the Effects of Transcranial Photobiomodulation on the Human Brain Using Combination MEG-EEG**
Tyrell Pruitt, Elizabeth Davenport, Xinlong Wang, Hanli Liu, Joseph Maldjian, University of Texas Southwestern Medical Center, Arlington, United States

DISORDERS OF THE NERVOUS SYSTEM

Neurodegenerative/ Late Life (eg. Parkinson's, Alzheimer's)

- MT058 Neuroimaging VMAT2 in Parkinson's disease with rapid eye movement sleep behaviour disorder**
Mikael Valli, Sang Soo Cho, Carme Uribe, Mario Masellis, Robert Chen, Alexander Mihaescu, Antonio Strafella, CAMH, Toronto, Canada
- MT059 Cognitive impairment and brain network organisation in MS patients**
Frederik Van de Steen, Jorne Laton, Stijn Denissen, Johan Baijot, Marie D'hooghe, Miguel D'Haeseleer, Chiara Rossi, Jeroen Van Schependom, Guy Nagels, Vrije Universiteit Brussel, Brussels, Belgium
- MT060 Cortical contributions to action selection differentiate clinical subtypes of Parkinson's disease**
Martin Johansson, Nina van Lier, Roy Kessels, Ivan Toni, Bastiaan Bloem, Rick Helmich, Donders institute, Nijmegen, Sweden
- MT061* Cortical lamination pattern differences in Parkinson's disease and healthy aging**
Omri Tomer, Dan Stein, Natalia Goldberg, Liran Domachevsky, Hanna Bernstine, Meital Nidam, Mordechai Lorberboym, Simon Israeli-Korn, Moshe Gomori, Sharon Hassin-Baer, David Groshar, Yaniv Assaf, Tel Aviv University, Tel Aviv, Israel
- MT062 Brain dysconnectivity with heart failure – A link to Alzheimer's disease?**
Karsten Mueller, Friederike Thiel, Birol Taskin, Frank Beutner, Andrej Teren, Harald Möller, Arno Villringer, Matthias Schroeter, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT063 Using multivariate SVR-LSM to map different symptoms of post-stroke depression (PSD)**
Janusz Koob, Sebastian Krick, Christian Grefkes, Anne Rehme, Uniklinik Köln, Cologne, Germany
- MT064* APOE ε2 vs APOE ε4 dosage shows sex-specific links with hippocampus-default network co-variation**
Chloé Savignac, Sylvia Villeneuve, Amanpreet Badhwar, Sarah Gagliano Taliun, Sali Farhan, Judes Poirier, Danilo Bzdok, McGill University, Montréal, Canada
- MT065 Tumour-infiltrated cortex participates in large-scale cognitive circuits**
Ayan Mandal, Moataz Assem, Rafael Romero-Garcia, Michael Hart, Pedro Coelho, Alexa McDonald, Emma Woodberry, Robert Morris, Stephen Price, John Duncan, Thomas Santarius, John Suckling, Yaara Erez, University of Pennsylvania, Philadelphia, United States
- MT066 Good sleep, healthy brain, and sharp mind all dream together**
Nicolas Cherbuin, Tergel Namsrai, Ananthan Ambikairajah, Australian National University, Canberra, Australia

- MT067 Brain function changes in Huntington's disease are associated with specific neurotransmitter systems**
Jan Kasper, Simon Eickhoff, Svenja Caspers, Jessica Peter, Imis Dogan, Robert Wolf, Kathrin Reetz, Juergen Dukart, Michael Orth, Forschungszentrum Jülich, Jülich, Germany
- MT068 Structural MRI prediction of freezing of gait in Parkinson's disease after deep brain stimulation**
Thomas Ollivier, Romain Viard, Anne-Sophie Rolland, Quentin Devignes, Renaud Lopes, Luc Defebvre, Grégory Kuchcinski, Guillaume Grolez, David Devos, Caroline Moreau, Lille University Hospital Center, Lille, France
- MT069 Cognitive impairment resting-state fMRI markers in elderly**
Karen Aguilar-Mateu, Ana Castro Laguardia, Jorge Llibre Guerra, Rosa Morgade Fonte, María Bobes-León, Cuban Center for Neuroscience, Havana, Cuba
- MT070 White Matter Microstructural Correlates of Spoken Discourse in Cerebrovascular Disease**
Dana Broberg, Seyyed Haddad, Katharine Aveni, Alexander Havens, Joseph Orange, Paula McLaughlin, Malcolm Binns, Angela Roberts, Robert Bartha, Western University, London, Canada
- MT071 Reproducibility of Cerebellar Involvement in Advanced Essential Tremor**
Qing Wang, Nikhil Bhagwat, Meshal Aljassar, Abbas Sadikot, Jean-Baptiste Poline, MNI, Montréal, Canada
- MT072 Machine Learning on Subcortical Shape to Distinguish Parkinson's Disease from Controls: ENIGMA-PD**
Max Laansma, Eva van Heese, Yuji Zhao, Joanna Bright, Conor Owens-Walton, Sarah Al-Bachari, Fernando Cendes, Jason Druzgal, Gaëtan Garraux, Rick Helmich, Johannes Klein, Christine Lochner, Corey McMillan, Tracy Melzer, Laura Parkes, Kathleen Poston, Mario Rango, Petra Schwingenschuh, Spalletta Gianfranco, Odile van den Heuvel, Chris Vriend, Jiun-Jie Wang, Roland Wiest, Neda Jahanshad, Paul Thompson, Ysbrand van der Werf, Boris Gutman, Amsterdam UMC, location VUmc, Amsterdam, Netherlands
- MT073 Thalamic volume is associated with cognitive and motor deficits in Parkinson Disease**
Vicente Ferrer-Gallardo, Teresa Esteban-Peñalba, César Caballero-Gaudes, Pedro Paz-Alonso, Basque center on cognition brain and language, San Sebastian, Spain
- MT074 High pulse pressure is associated with changes in brain structure and function in healthy volunteers**
Andy Schumann, Feliberto De la Cruz, H. Lina Schaare, Arno Villringer, Karl-Jürgen Bär, University Hospital Jena, Jena, Germany
- MT075 Associations between physical activity, functional connectivity and cognition in Parkinson's disease**
Siva Venkadesh, Erin Donahue, Dawn Schiehser, Vy Bui, Angelie Tuazon, Ryan Foreman, Ryan Wang, Dan Haase, Jared Duran, Andrew Petkus, Brett Lund, David Wing, Michael Higgins, Daniel Holschneider, Michael Jakowec, John Van Horn, Giselle Petzinger, University of Virginia, Lynchburg, United States
- MT076 Early detection of white matter hyperintensities using SHIVA-WMH detector**
Ami Tsuchida, Violaine Verrecchia, Philippe Boutinaud, Stéphanie Debette, Christophe Tzourio, Marc Joliot, Bordeaux University, Talence, France
- MT077 Prediction of cognitive decline in early Parkinson's disease using machine learning**
Hannes Almgren, Milton Camacho, Mekale Kibreab, Richard Camicioli, Zahinoor Ismail, Alexandru Hanganu, Nils Forkert, Oury Monchi, University of Calgary, Calgary, Canada
- MT078* Predicting Individual Brain Regional Atrophy Progression Using Functional Connectome**
Yu Xiao, Joanna Su Xian Chong, Eric Kwun Kei Ng, Marcus Qin Wen Ong, B.T. Thomas Yeo, Juan Helen Zhou, National University of Singapore, Singapore, Singapore
- MT079 Thalamic white matter macrostructure and subnuclei volumes in Parkinson's disease depression**
Rohan Bhome, Angeliki Zarkali, George Thomas, Juan Iglesias, James Cole, Rimona Weil, University College London, London, United Kingdom
- MT080 Patterns of grey matter atrophy in prodromal stages of Alzheimer's disease**
Jeremy Lefort-Besnard, Mikaël Naveau, Nicolas Delcroix, Fabien Cignetti, Leslie Decker, The ADNI, UNICAEN, INSERM, UMR-S 1075, Caen, France
- MT081 Changes in visual network effective connectivity in Parkinson's disease visual hallucinators**
George Thomas, Peter Zeidman, Tajwar Sultana, Angeliki Zarkali, Adeel Razi, Rimona Weil, Dementia Research Centre, UCL, London, United Kingdom
- MT082 LATE-NC is Associated with Lower Diffusion Anisotropy in Medial Temporal Lobe White Matter**
Mahir Tazwar, Arnold Evia, Ashish Tamhane, Abdur Raquib Ridwan, David Bennett, Julie Schneider, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States
- MT083 Characterization of single-trial EEGs from iRBD patients based on explainable machine learning**
Hyun Kim, Min Ju Kim, Jun Il Huh, Pukyeong Seo, Jun-Sang Sunwoo, Kwang Su Cha, El Jeong, Han-Joon Kim, Ki-Young Jung, Kyung Hwan Kim, Yonsei University, Wonju, Korea, Republic of
- MT084 Characterizing dynamic functional connectivity of the default mode network in Alzheimer's Disease**
Kun Yue, Jason Webster, Thomas Grabowski, Ali Shojaei, Hesamoddin Jahanian, University of Washington, Lynnwood, United States
- MT085 Beta amyloid deposition and cognitive decline in Parkinson's disease: a study of the PPMI cohort**
Alexander Mihaescu, Mikael Valli, Carme Uribe, Maria Diez-Cirarda, Mario Masellis, Ariel Graff-Guerrero, Antonio Strafella, CAMH, Toronto, Canada
- MT086 White Matter Structural Network of Motor Reserve in Early Parkinson's Disease**
Yae Ji Kim, Yong Jeong, Seok Jong Chung, Korea Advanced Institute of Science and Technology, Daejeon, Korea, Republic of
- MT087 Alzheimer's disease tau positron emission tomography and atrophy subtypes – A multimodal comparison**
Boris-Stephan Rauchmann, Ersin Ersoezlue, Robert Perneczky, LMU Munich, University hospital, München, Germany
- MT088 Parkinson's Disease Psychosis: resting state fMRI connectivity and network neuroscience approaches**
Marcella Montagnese, Mitul Mehta, Ed Bullmore, Sarah Morgan, King's College London, London, United Kingdom
- MT089 Variations in Neuromelanin MRI Signal in the Locus Coeruleus of Patients with Atypical Parkinsonism**
Rahul Gaurav, Alexis Nobileau, Lydia Chougar, Alice Faucher, Romain Valabregue, Graziella Mangone, Smaranda Leu-Semenescu, François-Xavier Lejeune, Jean-Christophe Corvol, Isabelle Arnulf, Marie Vidailhet, David Grabli, Bertrand Degos, Stephane Lehericy, Paris Brain Institute (ICM), Sorbonne University, INSERM U1127, CNRS 7225, Paris, France

- MT090** **Simulate the origination and treatment of beta-band synchronizations in Parkinson's disease**
Qin Liu, Petra Ritter, Charite Universitätsmedizin Berlin, Berlin, Germany
- MT091** **Signal Detection Theory as a means to understand cognitive fatigue in Multiple Sclerosis**
Cristina Román, John DeLuca, Bing Yao, Helen Genova, Glenn Wylie, Kessler Foundation, West Orange, United States
- MT092** **Differences in spinal cord functional connectivity associated Parkinson's disease: An fMRI study**
Caroline Landelle, Linda Solstrand Dahlberg, Ovidiu Lungu, Thibault Vlieghe, Benjamin De Leener, Julien Doyon, McGill University, Montreal, Canada
- MT093** **Relationship Between Cerebrovascular Pathology and Functional Connectivity in Prevalent Dementias**
Natasha Clarke, Flavie Detcheverry, Desiree Lussier, Lucina Uddin, Eric E. Smith, Sridar Narayanan, AmanPreet Badhwar, CRIUGM, Montreal, Canada
- MT094** **White matter hyperintensity volume dampens CSF biomarker and FDG-PET association in older adults**
Meral Tubi, Elizabeth Matsiyveskiy, Koral Wheeler, Wendy Mack, Kevin King, Helena Chui, Paul Thompson, Meredith Braskie, University of Southern California, Studio City, United States
- MT095** **Altered large scale functional networks in Alzheimer's disease and mild cognitive impairment**
Rixing Jing, Pindong Chen, Juanning Si, Huiyu Li, Songkun Ji, Yong Liu, Beijing Information Science and Technology University, Beijing, China
- MT096** **Striato-cortical Connectivity in Mild Cognitive Impairment with Lewy bodies**
Lubomira Novakova, Marek Barton, Irena Rektorova, CEITEC Masaryk University, Brno, Czech Republic
- MT097** **Putative early axonal swelling as preclinical Alzheimer degeneration in subjective cognitive decline**
Yi-Chia Kung, Yi-Chia Wei, Ching-Po Lin, Rung-Yu Tseng, Wen-Yi Huang, Chun-Hung Yeh, National Yang Ming Chiao Tung University, Taipei, Taiwan
- MT098** **A Multiverse Evaluation of Connectome-based Lesion-symptom Mapping in Post-stroke Aphasia**
Junhua Ding, Melissa Thye, Amelia Edmondson-Stait, Jerzy Szaflarski, Daniel Mirman, University of Edinburgh, Edinburgh, United Kingdom
- MT099** **White matter microstructural changes in speech impairments in Parkinson's disease**
Fatemeh Mollaei, Jolene Kieser, Bryanny Hampshire, University of Reading, Reading, United Kingdom
- MT100** **The progression of the compensatory mechanism in Huntington's disease during daily life tasks**
Isabel Duarte, Pedro Mesquita, Filipa Julio, Cristina Januario, Gina Caetano, Miguel Castelo-Branco, CIBIT/ICNAS, University of Coimbra, Coimbra, Portugal
- MT101** **ERPs elicited by the visual oddball paradigm are related to cognition in multiple sclerosis**
Frederik Van de Steen, Jorne Laton, Stijn Denissen, Johan Baijot, Marie D'hooghe, Miguel D'Haeseleer, Chiara Rossi, Fahimeh Akbarian, Jeroen Van Schependom, Guy Nagels, Vrije Universiteit Brussel, Brussels, Belgium
- MT102** **Multimodal Imaging Signatures of Cognitive Decline in Early Stage Parkinson's Disease**
Rafael Rodriguez-Rojas, Sue-Jin Lin, Beatriz Fernandez-Rodriguez, Jose Angel Pineda-Pardo, Jose Obeso, Yasser Iturria-Medina, Carmen Gasca, HM-CINAC; HM-Puerta del Sur, Madrid, Spain
- MT103** **Effects of Recreational Cannabis Consumption in Cerebral Cortical and Sub-Cortical Myelin**
Jonathan Rodríguez Delgado, Niels Janssen, Universidad de La Laguna, San Cristobal de La Laguna, Spain
- MT104** **Neurophysiological fingerprints of Parkinson's dDiseas**
Jason da Silva Castanheria, Sylvain Baillet, Alex Wiesman, McGill University, Montreal, Canada
- MT105** **Norepinephrine Transporter Distribution is Related to Atrophy Progression in Parkinson's Disease**
Christina Tremblay, Shady Rahayel, Andrew Vo, Justine Hansen, Bratislav Mistic, Alain Dagher, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- MT106** **Parkinson's disease heterogeneity explained by subtyping based on multimodal data**
Franziska Albrecht, Konstantinos Poulakis, Malin Freidle, Hanna Johansson, Urban Ekman, Giovanni Volpe, Eric Westman, Joana B. Pereira, Erika Franzén, Karolinska Institutet, Stockholm, Sweden
- MT107** **Functional Connectivity Estimated from Lesion Masks is Associated with Cognition after Stroke**
Abhishek Jaywant, Zijin Gu, Keith Jamison, Faith Gunning, Amy Kuceyeski, Weill Cornell Medicine, New York, United States
- MT108** **Cortical Volume and Thickness Changes in Myalgic Encephalomyelitis/Chronic fatigue syndrome**
Kiran Thapaliya, Sonya Marshall-Gradisnik, Donald Staines, Jiasheng Su, Leighton Barnden, Griffith University, Gold coast, Australia
- MT109** **Predicting the Severity Level of Patients with Parkinson's Disease by Using the CPM**
Guangtao Liu, Biao Huang, Lixin Qiu, Kemeng Chen, Ting Zhang, Xiaoqian Jiang, Ruiwang Huang, South China Normal University, Guangzhou, China
- MT110** **Behavioral reserve concept in the behavioral variant frontotemporal dementia**
SUHONG KIM, Sangwon Seo, Yong Jeong, KAIST, Yuseong-gu, Korea, Republic of
- MT111** **Hyperconnectivity and loss of coupling of a nucleus accumbens network in post-stroke depression**
Lena Oestreich, Paul Wright, Michael O'Sullivan, The University of Queensland, Brisbane, Australia
- MT112** **Heterogeneity of mild cognitive impairment based on a regional radiomics similarity network**
Kun Zhao, Martin Dyrba, Timothy Rittman, Bing Liu, Yong Liu, Beihang university, Beijing, China
- MT113** **Mapping brain structural and neuroreceptor correlates in Lewy Body visual hallucinations**
Miriam Vignando, Dominic ffytche, Michael Firbank, Sean Colloby, Simon Lewis, Jennifer Szeto, Phil Lee, Seok Chung, Rimona Weil, Michele Hu, Clare Mackay, Ludovica Griffanti, Delphine Pins, Kathy Dujardin, Renaud Jardri, John-Paul Taylor, Mitul Mehta, King's College London, London, United Kingdom
- MT114** **Air pollution is associated with right hippocampal volume reductions in preclinical Alzheimer's**
Natalia Vilor-Tejedor, Marta Crous-Bou, Gregory Operto, Carles Falcón, Marta Cirach, Carolina Minguillón, Jose Luis Molinuevo, Arcadi Navarro, Karine Fauria, Mark Nieuwenhuijsen, Henrik Zetterberg, Kaj Blennow, Jordi Sunyer, Marc Suárez-Calvet, Juan Domingo Gispert, BarcelonaBeta Brain Research Center and Center for Genomic Regulation, Barcelona, Spain
- MT115** **Exploring the specificity of fatigue-related brain activity in early Multiple Sclerosis**
Camille Guillemin, Maëlle Charonitis, Nikita Belyi, Florence Requier, Jessica Gilsoul, Evelyne Balteau, Gaël Delrue, Emilie Lommers, Isabelle Hansen, Pierre Maquet, Christophe Phillips, Fabienne Collette, University of Liège, Liège, Belgium

- MT116 Global Function Connectivity Reveals Increased Hippocampal-Cingulum Connectivity in MS**
Jian Lin, Ajay Nemani, Wanyong Shin, Xuemei Huang, Katherine Koenig, Mark Lowe, The Cleveland Clinic, Cleveland, United States
- MT117 Changes in cortical oscillatory activity in Parkinson's disease**
Oliver Kohl, Nahid Zokaei, Anna Nobre, Mark Woolrich, Andrew Quinn, University of Oxford, Oxford, United Kingdom
- MT118 Case-control effect sizes in CNS TSPO-PET: a transdiagnostic systematic review and meta-analysis**
Livia De Picker, Manuel Morrens, Igor Branchi, Benno Haarman, Tatsuhiro Terada, Min Su Kang, Delphine Boche, Marie-Eve Tremblay, Claire Leroy, Michel Bottlaender, Julie Ottoy, Collaborative Antwerp Psychiatric Research Institute (CAPRI), University of Antwerp, Antwerp, Belgium
- MT119 BOLD Variability in the Neostriatum in Alzheimer Disease is Dependent on Normalization**
Mark McAvoy, Andrei Vlassenko, Brian Gordon, John Morris, Beau Ances, Tammie Benzinger, Manu Goyal, Washington University, Saint Louis, United States
- MT120 Delusions Relate to Smaller Hippocampal and Amygdala Volumes in Alzheimer's Disease**
Kelly Rootes-Murdy, Jessica A. Turner, Georgia State University, Atlanta, United States
- MT121 Texture analysis can detect tau-associated microstructural differences in cognitively healthy people**
Alfie Wearn, Nathan Spreng, McGill University, Montreal, Canada
- MT122* Tau propagation and neuroinflammation along gradients of connectivity in Alzheimer's disease**
Julie Ottoy, Min Su Kang, Jonah Isen, Gleb Bezgin, Firoza Lussier, Sulantha Mathotaarachchi, Mary Agopian, Jean-Paul Soucy, Bo-yong Park, Reinder Vos de Wael, Serge Gauthier, Boris Bernhardt, Sandra Black, Pedro Rosa-Neto, Maged Goubbran, Sunnybrook Research Institute, Toronto, Canada
- MT123 Spectral Slowing in Chronic Stroke Comprises Both Periodic and Aperiodic Components**
Phillip Johnston, Anthony McIntosh, Jed Meltzer, University of Toronto, Toronto, Canada
- MT124 Resting State EEG analysis in Parkinson's disease with measurable cognitive impairment**
Dylan Gilbreath, Diana Escalona-Vargas, Aaron Kemp, Tuhin Virmani, Linda Larson-Prior, University of Arkansas for Medical Sciences, Little Rock, United States
- MT125 Multi-spectral neural pathology underlying speech impairments in patients with Parkinson's disease**
Alex Wiesman, Peter Donhauser, Shanna Kousaie, Sabrina Diab, Clotilde Degroot, Edward Fon, Denise Klein, Sylvain Baillet, Montreal Neurological Institute, Montreal, Canada
- MT126 Relationship between quantitative MRI measures and free water corrected diffusion MRI measures**
Karthik Sreenivasan, Dietmar Cordes, Virendra Mishra, Le Hua, Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States
- MT127 White matter abnormalities in Parkinson's disease: An ENIGMA-PD TBSS Study**
Conor Owens-Walton, Daniel Dixon, Talia Nir, Sophia Thomopoulos, Jason Druzgal, Benjamin Newman, Ítalo Aventurato, Fernando Cendes, Rachel Guimarães, Lucas Scárdua Silva, Clarissa Yasuda, Lukas Pirpamer, Reinhold Schmidt, Petra Swingenschuh, Tim Anderson, John Dalrymple-Alford, Valentina Ciullo, Tracy Melzer, Toni Pitcher, Sarah Al-Bachari, Hamied Haroon, Johannes Klein, Clare Mackay, Michiel Dirkx, Rick Helmich, Martin Johansson, Sonia Ambrogi, Clelia Pellicano, Fabrizio Piras, Federica Piras, Spalletta Gianfranco, Daniela Vecchio, Ho Bin Kim, Kathleen Poston, Christine Lochner, Annerine Roos, Dan Stein, Jiun-Jie Wang, Chih-Chien Tsai, Philip Cook, Corey McMillan, Daniel Weintraub, Max Laansma, Odile van den Heuvel, Neda Jahanshad, Paul Thompson, Ysbrand van der Werf, University of Southern California, Los Angeles, United States
- MT128* Altered global signal topography in Alzheimer's disease correlates with neurodegeneration pathway**
Pindong Chen, Xiaopeng Kang, Yida Qu, Yong Liu, CASIA, Beijing, China
- MT129 Volumetric changes in olfactory regions in Parkinson's disease measured by high-resolution 7T MRI**
Adrian Paez, Suraj Rajan, Alex Pantelyat, Liana Rosenthal, Andreia Faria, Xinyuan Miao, Ted Dawson, Peter van Zijl, Vidyulata Kamath, Jun Hua, Kennedy Krieger Institute, Baltimore, United States
- MT130 Digital Quantification of Tau Pathology in Neurons and Glial Cells in Progressive Supranuclear Palsy**
Tanrada Pansuwan, Eric Hidari, Sanne Kaalund, Mayen Briggs, James Rowe, Timothy Rittman, University of Cambridge, Cambridge, United Kingdom
- MT131 Functional Connectivity is Related to Cognition Across the Alzheimer's Disease Spectrum**
Jace King, Molly Prigge, Kevin Duff, John Hoffman, University of Utah, Salt Lake City, United States
- MT132 Altered macroscale gradients in Alzheimer's disease**
Dawei Wang, Zhuangzhuang Li, Yong Liu, Department of Radiology, Qilu Hospital of Shandong University, Ji'nan, China
- MT133 Different intrinsic functional coupling and effect of dual-task interference in Parkinson's disease**
Eunkyung Kim, Heejae Kim, Seo Jung Yun, Min-Gu Kang, Hyun Lee Lee, Byung-Mo Oh, Han Gil Seo, Seoul National University Hospital, Seoul, Korea, Republic of
- MT134 Integration of precuneus and posterior memory network drives poorer memory in Aβ positive adults**
Joseph Giorgio, Michelle Lupton, Philip Mosley, Robert Adam, Jurgen Fripp, Gail Robinson, Michael Breakspear, University of Newcastle, Newcastle, Australia
- MT135 Inter and Intra-domain Pre-training for Alzheimer's Disease Classification using Brain MRI**
Nikhil Dhinagar, Sophia Thomopoulos, Conor Owens-Walton, Dimitris Stripelis, Jose-Luis Ambite, Greg Ver Steeg, Paul Thompson, University of Southern California, Los Angeles, United States
- MT136 Dopamine Alters Sensorimotor-to-Associative Gradient Organisation in Parkinson's disease**
Isabella Orlando, Joshua Tan, Natasha Taylor, Simon Lewis, James Shine, Claire O'Callaghan, University of Sydney, Sydney, Australia

- MT137 Brain functional connectome phenotype of multiple cerebrovascular disease MRI markers**
Joanna Su Xian Chong, Fang Ji, Jia Ming Lau, Saima Hilal, Boon Yeow Tan, Narayanaswamy Venketasubramanian, Christopher Li-Hsian Chen, Juan Helen Zhou, National University of Singapore, Singapore, Singapore
- MT138 Convergent regional abnormalities in behavioral-variant frontotemporal dementia: a meta-analysis**
Aida Kamalian, Tina Khodadadifar, Amin Saberi, Maryam Masoudi, Julia Camilleri, Claudia Eickhoff, Mojtaba Zarei, Lorenzo Pasquini, Angela Laird, Peter Fox, Simon Eickhoff, Masoud Tahmasian, Tehran University of Medical Sciences, Tehran, Iran, Islamic Republic of
- MT139 Used of MR R2* maps to study longitudinal Deferiprone effects on Substantia Nigra**
Romain Viard, Nacim Betrouni, Renaud Lopes, Anne-Sophie Rolland, Caroline Moreau, Luc Defebvre, Grégory Kuchcinski, David Devos, Lille University Hospital, Lille, France
- MT140 Indices of cortical asymmetry in Alzheimer's Disease and Frontotemporal Dementia**
Uma Lal-Trehan, Agnès Pérez-Millan, José Contador, Raúl Tudela, Aida Niñerola-Baizán, Neus Falgàs, Núria Bargalló, Mircea Balasa, Albert Lladó, Raquel Sanchez-Valle, Roser Sala-Llonch, Universitat de Barcelona (VAT ESQ0818001J), Tremp, Spain
- MT141 Revealing neuroanatomical heterogeneity of Alzheimer's disease using normative modelling**
Serena Verdi, Seyed Mostafa Kia, Jonathan Schott, Andre Marquand, James Cole, UCL, London, United Kingdom
- MT142 Associations between Apathy and White Matter Tract Integrity in ADRD and FTD**
Yunglin Gazes, Seonjoo Lee, Edward Huey, Nora Vanegas, Columbia University Irving Medical Center, New York, United States
- MT143 Brain Network Topology and Cortical Thickness Alterations in Cerebral Small Vessel Disease**
Marvin Petersen, Felix Naegele, Carola Mayer, Maximilian Schell, Christian Gerloff, Götz Thomalla, Bastian Cheng, University Medical Center Hamburg-Eppendorf, Hamburg, Germany
- MT144 Dynamics of fMRI connectivity associated with attention in patients with Parkinson's disease**
Martin Gajdoš, Kristína Mitterová, Martin Lamoš, Irena Rektorova, CEITEC Masarykova univerzita, Brno, Czech Republic
- MT145 Cervical spinal cord atrophy in Amyotrophic Lateral Sclerosis across disease stages**
Anna Nigri, Eleonora Della Bella, Stefania Ferraro, Jean Paul Medina, Greta Demichelis, Enrica Bersano, Monica Consonni, Antje Bischof, Mario Stanziano, Sara Palermo, Giuseppe Lauria Pinter, Maria Grazia Bruzzone, Nico Papinutto, Fondazione IRCCS Istituto Neurologico Carlo Besta, Milano, Italy
- MT146 Brain atrophy in REM sleep behavior disorder is shaped by gene expression and connectivity**
Shady Rahayel, Christina Tremblay, Andrew Vo, Stephane Lehericy, Isabelle Arnulf, Marie Vidailhet, Jean-Christophe Corvol, Jean-François Gagnon, Ronald Postuma, Jacques Montplaisir, Simon Lewis, Elie Matar, Kaylena Ehgoetz Martens, Per Borghammer, Karoline Knudsen, Oury Monchi, Bratislav Misic, Alain Dagher, McGill University, Montreal, Canada
- MT147 Temporoparietal volume and olfactory capacity in Alzheimer's Disease: a longitudinal VBM study**
Claudia Casadio, Daniela Ballotta, Maria Giulia Corni, Elisa Bardi, Manuela Tondelli, Maria Angela Molinari, Francesca Benuzzi, Department of Biomedical, Metabolic and Neural Sciences, University of Modena and Reggio Emilia, Modena, Italy
- MT148 Multi-Modal Structural Morphometric Covariance of Hippocampal Networks Predicts Dementia Ratings**
Kaitlin McManus, Poornima Kumar, Blaise Frederick, Lisa Nickerson, David Harper, McLean Hospital, Cambridge, United States
- MT149 Network Connectivity Shapes Progression of Cortical Atrophy in Parkinson's Disease**
Andrew Vo, Christina Tremblay, Shady Rahayel, Yvonne Yau, Misic Bratislav, Alain Dagher, Montreal Neurological Institute, Montréal, Canada
- MT150 Right posterior hippocampal redundancy reflects brain aging without beta-amyloid deposition**
Jenna Blujus, Michael Cole, Elena Festa, William Heindel, Hwamee Oh, Brown University, Providence, United States
- MT151 An fMRI study on the role of the noradrenergic system in the Parkinson's tremor**
Anouk van der Heide, Maaïke Wessel, Danae Papadopetraki, Teije van Prooije, Dirk Geurts, Frank Gommans, Rick Helmich, Donders Institute for Brain Cognition and Behaviour, Nijmegen, Netherlands
- MT152 Deep-learning analysis in tau PET for Alzheimer's continuum**
Yu-Wei Chang, Giovanni Volpe, Joana B. Pereira, Göteborgs universitet, Göteborg, Sweden
- MT153 Predicting longitudinal brain atrophy in Parkinson's disease patients using an agent-based model**
Alaa Abdelgawad, Shady Rahayel, Ying-Qiu Zheng, Christina Tremblay, Andrew Vo, Bratislav Misic, Alain Dagher, Montreal Neurological Institute, McGill University, Montreal, Canada
- MT154 Exploring functional connectivity in Alzheimer's disease using the point process analysis**
Lucia Penalba, Patrícia Silva, Alexander Sumich, Ignacio Cifre, Universitat Ramon Llull, Barcelona, Spain
- MT155 7T Resting State Connectivity Applied to HIFU Procedures for Planning and Efficacy**
Mark Lowe, Jian Lin, Ajay Nemani, Sean Nagel, Stephen Jones, Cleveland Clinic, Cleveland, United States
- MT156 BrainAGE predicts estimated Brain Reserve using a residual model in the Alzheimer's continuum**
Ersin Ersözülü, Robert Perneczky, Boris-Stephan Rauchmann, University of Munich (LMU), München, Germany
- MT157 Identifying effects of tract-specific white matter hyperintensity burden on functional connectivity**
Parmida Pajouhesh, Quimby Lee, Linh Le, Pauline Maillard, Audrey Fan, University of California, Davis, Davis, United States
- MT158 Hybrid Connectome Reveals Disrupted Hippocampal Excitation-Inhibition Balance in APP Knock-In Mice**
Igor Fortel, Zachery Morrissey, Liang Zhan, Olusola Ajilore, Takaomi Saito, Takaomi Saido, Alex Leow, Orly Lazarov, University of Illinois at Chicago, northbrook, United States
- MT159 White matter correlates of cognitive impairment and fatigue in patients with Long COVID**
Josephine Heine, Katia Schwichtenberg, Sophia Rekers, Fabian Boesl, Christiana Franke, Kathrin Reetz, Carsten Finke, Charité – Universitätsmedizin Berlin, Berlin, Germany
- MT160 Amyloid and Tau PET Associations with White Matter Microstructure**
Talia Nir, Sophia Thomopoulos, Julio Villalón-Reina, Paul Thompson, Neda Jahanshad, University of Southern California, Los Angeles, United States

- MT161 Functional neurotransmitter system disruption in mild cognitive impairment and Alzheimer's disease**
Josh King-Robson, Steven Williams, Daniel Martins, Ottavia Dipasquale, King's College London, London, United Kingdom
- MT162 Deep-Learning-Based Multi-modal Survival Analysis for Alzheimer's Disease**
Mirza Faisal Beg, Da Ma, Cédric Beaulac, Sieun Lee, Karteek Popuri, Hyunwoo Lee, Jiguo Cao, Lei Wang, James Galvin, Mirza Faisal Beg, Simon Fraser University, Burnaby, Canada
- MT163 Influence of literacy status on hippocampal subfield structure in older adults**
Kirsten Lynch, Arthur Toga, Leon Aksman, University of Southern California, Los Angeles, United States
- MT164 Disrupted Structural Network Topology in Parkinson's disease Patients with Cognitive Impairment**
Virendra Mishra, Karthik Sreenivasan, Jessica Caldwell, Aaron Ritter, Zoltan Mari, Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States
- MT165 Aberrant Striatal Functional Connectivity is Related to Walking Performance in Veterans with mTBI**
Mary Newsome, Qisheng Liu, Elisabeth Wilde, Joel Steinberg, David Tate, Nicholas Davenport, Jared Rowland, Sarah Martindale, Cooper Hedges, Randall Scheibel, Harvey Levin, Kimbra Kenney, Kent Werner, Andrew Mayer, Brian Taylor, Carlos Jaramillo, William Walker, Baylor College of Medicine, Houston, United States
- MT166 Imaging Genetic Biomarker Development Using Machine Learning for Alzheimer's Disease Prediction**
Mirza Faisal Beg, Da Ma, Sieun Lee, Karteek Popuri, Hyunwoo Lee, Jiguo Cao, Lei Wang, James Galvin, Mirza Faisal Beg, Simon Fraser University, Burnaby, Canada
- MT167 Cognitive, physical, and neural metrics of Parkinsons dDiseas: A canonical correlation analysis**
Rebecca Waugh, Siva Venkadesh, Erin Donahue, Dawn Schiehser, Andrew Petkus, Joseph O'Neill, Jeffry Alger, Michael Jakowec, Giselle Petzinger, John Van Horn, University of Virginia, Charlottesville, United States
- MT168 MRI-based Neurofibrillary Tangles Prediction**
Khalid Saifullah, Mahir Tazwar, Arnold Evia, Ashish Tamhane, David Bennett, Julie Schneider, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States
- MT169 On fMRI Time-Series Complexity as a Biomarker of Gulf War Illness**
Kaundinya Gopinath, Unal Sakoglu, Bruce Crosson, Robert Haley, Emory University, Atlanta, United States
- MT170 Detecting resting-state neurovascular uncoupling in elders with Long COVID**
Alexander Cohen, Jessica Pommy, Laura Umfleet, Malgorzata Franczak, Sara Swanson, Mohit Agarwal, Yang Wang, Medical College of Wisconsin, Milwaukee, United States
- MT171 Impact of sex on trajectories of cortical thinning in logopenic variant primary progressive aphasia**
Abigail Licata, Jessica De Leon, Aaron Scheffler, Maxime Montembeault, Sladjana Lukic, Jet Vonk, Buddhika Ratnasiri, Zachary Miller, Renaud La Joie, Gil Rabinovici, Bruce Miller, Maria Luisa Gorno-Tempini, Maria Luisa Mandelli, University of California San Francisco, San Francisco, United States
- MT172 Probing the link between the APOE-ε4 allele and whole-brain gray matter**
Anees Abrol, Ihab Hajjar, Vince Calhoun, GSU/GATech/Emory Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, United States
- MT173 Tracking disease progression in Parkinsons dDiseas using striato-cortical gradients**
Dimuthu Henadeerage Don, Ali Khan, Penny MacDonald, Roy Haast, University of Western Ontario, London, Canada
- MT174 Texture analysis to capture ALS pathology in different levels of upper motor neuron involvement**
Pedram Parnianpour, Collin Luk, Andrew Wu, Sanjay Kalra, University of Alberta, Edmonton, Canada
- MT175 Independent replication of advanced brain aging in preclinical and advanced Alzheimer's disease**
Helmet Karim, Howard Aizenstein, Akiko Mizuno, Maria Ly, Carmen Andreescu, Minjie Wu, Chang Hyung Hong, Hyun Woong Roh, Bumhee Park, Heirim Lee, Na-Rae Kim, Jin Wook Choi, Sangwon Seo, Seong Hye Choi, Eun-Joo Kim, Byeong Kim, Jaeyoun Cheong, Sang Joon Son, University of Pittsburgh, Pittsburgh, United States
- MT176 Longitudinal surface-based spatial Bayesian GLM reveals complex trajectories of neurodegeneration**
Amanda Mejia, Vincent Koppelmans, Laura Jelsone-Swain, Sanjay Kalra, Robert Welsh, Indiana University, Bloomington, United States
- MT177 Coactivation patterns underlying memory performance in offspring of parents with Alzheimer' disease**
Zachary Goodman, Rosie Curiel Cid, Sierra Bainter, David Loewenstein, Lucina Uddin, Jason Nomi, University of Miami, Coral Gables, United States
- MT178 Dementia ConnEEGtome: Towards multicentric harmonization of EEG connectivity in neurodegeneration**
Pavel Prado, Agustina Birba, Josephine Cruzat, Hernando Santamaría-García, Mario Parra, Sebastián Moguilner, Enzo Tagliazucchi, Agustín Ibáñez, Latin American Brain Health Institute (BrainLat), Santiago de Chile, Chile
- MT179 Focused ultrasound thalamotomy to reduce tremor impacts the cerebello-thalamo-cortical network**
Louisa Dahmani, Yan Bai, Meiling Li, Lunhao Shen, Jianxun Ren, Jianjun Ma, Haiyang Li, Wei Wei, Pengyu Li, Danhong Wang, Lei Du, Weigang Cui, Meiyun Wang, Hesheng Liu, Athinoula A. Martinos Center for Biomedical Imaging, Charlestown, United States
- MT180 Examining Cognitive Fatigue in Multiple Sclerosis Using Susceptibility Contrast Imaging**
Bing Yao, Mateusz Kowalczyk, Hannah Ovadia, Sarah Wood, Kessler Foundation, West Orange, United States
- Neurodevelopmental/ Early Life (eg. ADHD, autism)**
- MT181* Subtly altered topological asymmetry of brain structural covariance networks in autism**
Zhiqiang Sha, Daan van Rooij, ENIGMA-ASD Working Group, ENIGMA-Laterality Working Group, Paul Thompson, Simon Fisher, Jan Buitelaar, Clyde Francks, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

- MT182 Brain structural sex differences in autism spectrum disorders: a systematic review**
Gisele Beltramini-Ruiz, Claudinei Eduardo Biazoli, Federal University of ABC, São Bernardo do Campo, Brazil
- MT183 Exploring the limits of a Universal Cortical Folding Model: an application to Congenital Pathologies**
Fernanda Hansen Pacheco de Moraes, Caroline Victorino Felix de Lima, Victor B. B. Mello, Patricia Soares de Oliveira-Szejnfeld, Arnaldo Prata-Barbosa, Leighton Hinkley, Elliot Sherr, Lynn K. Paul, Fernanda Tovar-Moll, Bruno Mota, Instituto D'Or de Pesquisa e Ensino, Rio de Janeiro, Brazil
- MT184 Magnetic susceptibility and anxiety symptoms in children with and without prenatal alcohol exposure**
Daphne Nakhid, Carly A. McMorris, Hongfu Sun, Ben Gibbard, Christina Tortorelli, Catherine Lebel, University of Calgary, Calgary, Canada
- MT185 Effects of acute and chronic oxytocin treatment on amygdala BOLD spectral dynamics in autism**
Kaat Alaerts, Sylvie Bernaerts, Nicole Wenderoth, KU Leuven, Leuven, Belgium
- MT186* Speech entrainment deficits in children with dyslexia**
Kanad Mandke, Sheila Flanagan, Annabel Macfarlane, Fiona Gabrielczyk, Anegla Wilson, Joachim Gross, Usha Goswami, University of Cambridge, Cambridge, United Kingdom
- MT187 In utero exposure to antidepressants affects cortical function in the newborn brain**
Anton Tokariev, Victoria Oberlander, Mari Videman, Sampsa Vanhatalo, University of Helsinki, Helsinki, Finland
- MT188 Using clinically-acquired MRIs to investigate trajectories of brain morphology in 22q11.2 DS**
Jenna Schabdach, Jakob Seidlitz, T. Blaine Crowley, Richard Bethlehem, Joelle Jee, Sydney Covitz, Nadia Ngom, Caleb Scmitt, Sarah Hopkins, Daniel McGinn, Beverley Emanuel, Elaine Zackai, Ian Campbell, Madeline Chadehumbe, J. Eric Schmitt, Vivek Padmanabhan, Jeff Miller, Azeez Adebimpe, Ruben Gur, Russell Shinohara, Theodore Satterthwaite, Arastoo Vossough, Donna McDonald-McGinn, Raquel Gur, David Roalf, Aaron Alexander-Bloch, Children's Hospital of Philadelphia, Newtown, United States
- MT189 Normative modeling of sex differences in neurodevelopment of autism and ADHD**
Saashi A. Bedford, Meng-Chuan Lai, Michael Lombardo, BrainChart Consortium*, Jakob Seidlitz, Aaron Alexander-Bloch, Edward T. Bullmore, Simon Baron-Cohen, Richard A.I. Bethlehem, University of Cambridge, Cambridge, United Kingdom
- MT190 Altered Resting State Functional Connectivity Networks in Cerebral Visual Impairment (CVI)**
Zahide Pamir, Corinna Bauer, Marie Drottar, Claire Manley, Lotfi Merabet, Schepens Eye Research Institute of Mass Eye and Ear, Harvard Medical School, Cambridge, United States
- MT191 Autism is associated with integrated inter-individual brain structural and functional variations**
Ting Mei, Alberto Llera, Natalie Forde, Dorothea Floris, Marianne Oldehinkel, Flavio Dell'Acqua, Sarah Durston, Carolin Moessnang, Tobias Banaschewski, Rosemary Holt, Simon Baron-Cohen, Annika Rausch, Eva Loth, Tony Charman, Christine Ecker, Declan Murphy, – the EU-AIMS LEAP group, Christian Beckmann, Jan Buitelaar, Donders Institute, Nijmegen, Netherlands
- MT192 Multicomponent T2 of white matter lesions in Individuals with early developmental brain Injury**
Marie Drottar, Jonathan Doucette, Adam Dvorak, Yansong Zhao, Erin MacMillan, Alexander Rauscher, Corinna Bauer, Massachusettes Eye and Ear Infirmary, Avon, United States
- MT193 Longitudinal neonatal brain development and infant psychopathology following preterm birth**
Lucy Vanes, Sunniva Fenn-Moltu, Dafnis Batalle, Laila Hadaya, Sean Fitzgibbon, Lucilio Cordero-Grande, Anthony Price, Joseph Hajnal, A David Edwards, Chiara Nosarti, King's College London, London, United Kingdom
- MT194 Diagnosis and Sex in Autism Spectrum Disorder Explored using Phenomics, Genetics, and Neuroimaging**
John Van Horn, Siva Venkadesh, Zachary Jacokes, Ian Adoremos, Kevin Pelphrey, University of Virginia, Charlottesville, United States
- MT195 The Impact of Maternal Anxiety On Fetal Functional Neurodevelopment : the Role of the Amygdala**
Matteo Canini, Martina Caglioni, Claudia Oprandi, Ana Katusić, Iris Žunić Išasegi, Nicolò Pecco, Paola Scifo, Mirko Pozzoni, Antonella Poloniato, Maria Grazia Natali Sora, Paolo Cavoretto, Graziano Barera, Massimo Candiani, Ivica Kostović, Andrea Falini, Cristina Baldoli, Pasquale Della Rosa, IRCCS San Raffaele, Milan, Italy
- MT196* Variations in functional gradients relate to dimensions of psychopathology in preschool children**
Thuan Tinh Nguyen, Xing Qian, Eric Kwun Kei Ng, Marcus Qin Wen Ong, Zhen Ming Ngoh, Shayne Siok Peng Yeo, Jia Ming Lau, Evelyn Chung Ning Law, Ai Peng Tan, Yap-Seng Chong, Samuele Cortese, Michael Meaney, Juan Helen Zhou, National University of Singapore, Singapore, Singapore
- MT197 Normative brain mapping of interictal intracranial EEG to localise epileptogenic tissue**
Peter Taylor, Christoforos Pappasavvas, Thomas Owen, Gabrielle Schroeder, Frances Hutchings, Fahmida Chowdhury, Beate Diehl, John Duncan, Andrew McEvoy, Anna Miserocchi, Jane de Tisi, Sjoerd Vos, Matthew Walker, Yujiang Wang, Newcastle University, Newcastle upon Tyne, United Kingdom
- MT198 Variation in Adaptive Outcome and Associated Neuroanatomical Trajectories in Autism**
Charlotte Pretzsch, Tim Schaefer, Dorothea Floris, Anke Bletsch, Caroline Mann, Michael Lombardo, Thomas Bourgeron, Tony Charman, Jan Buitelaar, Christian Beckmann, Eva Loth, Declan Murphy, Christine Ecker, Forensic and Neurodevelopmental Sciences, King's College London, London, United Kingdom
- MT199 Are Reported Volume Abnormalities in Autism Consistent? A Meta-Analysis of Morphometric Data**
Michelle Sader, Gordon Waiter, Justin Williams, University of Aberdeen, Aberdeen, United Kingdom
- MT200 Testing the generalizability of the sustained attention model in adolescents with and without autism**
Corey Horien, Abigail Greene, Xilin Shen, Monica Rosenberg, Diogo Fortes, Emma Brennan-Wydra, Chitra Banarjee, Rachel Foster, Maureen Butler, Kelly Powell, Angelina Verneti, James McPartland, Fred Volkmar, Dustin Scheinost, Katarzyna Chawarska, R. Todd Constable, Yale University, New Haven, United States
- MT202 Multivariate Patterns of Functional Connectivity are Linked to Youth Borderline-Spectrum Symptoms**
Max Bertolero, Azeez Adebimpe, Matthew Cieslak, Sydney Covitz, Eric Feczko, Audrey Houghton, Oscar Miranda-Dominguez, Adam Pines, Danielle Bassett, Damien Fair, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States

- MT203** **Thalamocortical connectivity relates to ASD risk & sensory over-responsivity in 9-month-old infants**
Lauren Wagner, Megan Banchik, Nana Okada, Susan Bookheimer, Shulamite Green, Mirella Dapretto, University of California Los Angeles, Los Angeles, United States
- MT204** **Edge-centric functional networks reveal neural alterations in prenatal opioid-exposed infants**
Weixiong Jiang, Stephanie Merhar, Zhuohao Zeng, Ziliang Zhu, Weiyan Yin, Zhen Zhou, Li Wang, Lili He, Jennifer Vannest, Weili Lin, UNC-CH, Chapel Hill, United States
- MT205** **Altered white matter micro- and macro-structure in autism: Implications for intellectual impairment**
Chun-Hung Yeh, Rung-Yu Tseng, Hsing-Chang Ni, Luca Cocchi, Susan Shur-Fen Gau, Hsiang-Yuan Lin, Institute for Radiological Research, Chang Gung University, Taoyuan, Taiwan
- MT206** **White matter and sustained attention in children with ADHD: A longitudinal fixel-based analysis**
Phoebe Thomson, Nandita Vijayakumar, Ian Fuelscher, Charles Malpas, Philip Hazell, Timothy Silk, University of Melbourne, Parkville, Australia
- MT207** **Whole-brain mapping of disturbed semantic representation in autism spectrum disorder**
Jong-eun Lee, Kyoungseob Byeon, Boris Bernhardt, Michael Milham, Hyunjin Park, Seok-Jun Hong, Sungkyunkwan university, Suwon, Korea, Republic of
- MT208** **Alterations in MRI biomarkers of myelination associated with preterm birth**
Kadi Vaheer, Manuel Blesa, Michael Thrippleton, Elizabeth York, Paola Galdi, Gemma Sullivan, David Stoye, Jill Hall, Amy Corrigan, Alan Quigley, Mark Bastin, Debby Bogaert, James Boardman, University of Edinburgh, Edinburgh, United Kingdom
- MT209** **The impact of in-utero HIV exposure on infant auditory tract development**
Amy Graham, Barbara Laughton, Marlie Miles, Samantha Fry, Francesca Little, Andre van der Kouwe, Ernesta Meintjes, Mamadou Kaba, Marcin Jankiewicz, Martha Holmes, University of Cape Town, Cape Town, South Africa
- MT210** **Social problems and brain structure trajectories following pediatric mild traumatic brain injury**
Fanny Dégeilh, Tilmann von Soest, Lia Ferschmann, Joanne Beer, Malo Gaubert, Inga Koerte, Christian Tamnes, Inria, Rennes, France
- MT211** **Structural brain and functional outcomes in 2-3-year-old children after prenatal tobacco exposure**
Nehpal Singh, Annerine Roos, Catherine Wedderburn, Aneesa Vanker, Jean-Paul Fouche, Shantanu Joshi, Roger Woods, Katherine Narr, Heather Zar, Kirsten Donald, University of Cape Town, Cape Town, South Africa
- MT212** **Long-term effects of stimulant treatment on regional cortical thickness development in ADHD**
Zarah van der Pal, Kristine Walhovd, Inge Amlie, Antonia Kaiser, Hilde Geurts, Liesbeth Reneman, Anouk Schranter, Amsterdam UMC – University of Amsterdam, Amsterdam, Netherlands
- MT213** **Pre-operative epileptic network architecture constrains surgery-induced connectome reorganization**
Sara Lariviere, Bo-yong Park, Jessica Royer, Yifei Weng, Birgit Frauscher, Zhengge Wang, Golia Shafiei, Bratislav Mistic, Andrea Bernasconi, Neda Bernasconi, Dewi Schrader, Zhiqiang Zhang, Boris Bernhardt, McGill University, Montreal, Canada
- MT214** **Longitudinal analyses of ADHD symptom trajectories in association with white matter microstructure**
Christienne Damatac, Sourena Soheili-Nezhad, Guilherme Blazquez Freches, Marcel Zwiers, Barbara Franke, Jan Buitelaar, Christian Beckmann, Emma Sprooten, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands
- MT215** **Altered Functional Connectivity of the Whole-Brain Network in the Co-Occurrence of ASD and ADHD**
Qi Wen Lin, Huiyuan Huang, Bingqing Jiao, Jiabao Lin, Lijun Ma, School of Public Health and Management, Guangzhou, China
- MT216** **Distinct developmental changes in youth with ADHD: A longitudinal voxel-based morphometry study**
Jung-Chi Chang, Hsiang-Yuan Lin, Susan Shur-Fen Gau, National Taiwan University, Taipei City, Taiwan
- MT217** **Paediatric multiple sclerosis patients outperform typically developing children on a visuomotor task**
Elizaveta Igoshina, Sonya Bells, Ann Yeh, Julie Tseng, Dunja Matic, Donald Mabbott, University of Toronto, Toronto, Canada
- MT218** **A multi-level investigation of sensory sensitivity and responsivity in adults with autism**
Laurie-Anne Sapey-Triomphe, Joke Dierckx, Sofie Vettori, Jaana Van Overwalle, Johan Wagemans, KU Leuven, Leuven, Belgium
- MT219** **Finding Brain Predictors of Psychostimulant Medication Use in ADHD Using Machine Learning**
Zoe Hulce, University of Vermont, Burlington, United States
- MT220** **Brain Dynamics Underlying the Development of Cognitive Flexibility**
Lauren Kupis, Celia Romero, Bryce Dirks, Stephanie Hoang, Leigha Kircher, Sierra Bainter, Jason Nomi, Manish Saggarr, Lucina Uddin, University of California Los Angeles, Los Angeles, United States
- MT221** **Frontolimbic white matter impairment in children born preterm: The ABCD study**
Iris Hung, Hailong Li, Lili He, Cincinnati Children's Hospital, Cincinnati, United States
- MT222** **Effects of the autism associated OXTR gene on functional and structural brain networks in children**
Sohui Kim, Narae Yoon, Minji Kim, Yeji Kim, Johanna Inhyang Kim, Bung-Nyun Kim, Jong-Min Lee, Department of Electronic Engineering, Hanyang University, Seoul, Korea, Republic of, Seoul, Korea, Republic of
- MT223** **Mapping the neuroconnectional landscape in autism via cross-species fMRI**
Marco Pagani, Valerio Zerbi, Alberto Galbusera, Ting Xu, Nicole Wenderoth, Michael Milham, Adriana Di Martino, Alessandro Gozzi, IIT, Rovereto, Italy
- MT224** **Dynamics of Resting state connectivity predict anxiety in a transdiagnostic pediatric sample**
Adnan Rashid, Xiaozhen You, Sufang Li, Jordan Linde, Jessica Smith, Madison Berl, Lauren Kenworthy, Chandan Vaidya, Georgetown University, Washington, United States
- MT225** **Cortical asymmetry of structural connectivity in autism spectrum disorder**
Seulki Yoo, Yurim Jang, Seok-Jun Hong, Sofie Valk, Boris Bernhardt, Bo-yong Park, Sungkyunkwan university, Suwon, Korea, Republic of

- MT226** **No evidence for functional neuroanatomical deficits in children with math learning difficulties**
Fu Yu Kwok, Eric Wilkey, Lien Peters, Ellyn Khiu, Pierina Cheung, Kerry Lee, Anne Rifkin-Graboi, Rebecca Bull, Daniel Ansari, Macquarie University, Macquarie Park, Australia
- MT227** **Alterations in brain structure and behavioral performance in preterm birth children**
Weibin Ji, Guanya Li, Peter Manza, Dardo Tomasi, Fukun Jiang, Yaqi Zhang, Feifei Wu, Wenchao Zhang, Yang Hu, Yi Zhang, Gene-Jack Wang, Nora Volkow, Center for Brain Imaging, School of Life Science and Technology, Xidian University, Xi'an, China
- MT228** **Reduced volume in salience-involved brain among non-treated but not stimulant treated ADHD children**
Feifei Wu, Peter Manza, Nora Volkow, Weibin Ji, Yaqi Zhang, Fukun Jiang, Guanya Li, Wenchao Zhang, Yang Hu, Szu-Yung Wang, Yi Zhang, Dardo Tomasi, Gene-Jack Wang, Xidian University, Xi'an, China
- MT229** **Reduced functional connectivity during laughter perception in adults with high functioning autism**
Dirk Wildgruber, Benjamin Kreifelts, Carolin Brueck, Elgin Hoffmann, Anne Martinelli, University Tuebingen, Tuebingen, Germany
- MT230** **Finding the Selectivity of Neuroanatomical Aberration in Autism through Reverse Inference**
Donato Liloia, Franco Cauda, Lucina Uddin, Jordi Manuella, Lorenzo Mancuso, Roberto Keller, Andrea Nani, tommaso costa, University of Turin, Turin, Italy
- MT231** **Clinical and neuroanatomical traits of 16p11.2 carriers ascertained for neurodevelopmental disorders**
Anne Maillard, David Romascano, Joana Maria Osório, Sonia Richetin, Vincent Junod, Marine Jequier Gyax, Sandra Martin-Brevet, Bogdan Draganski, Randy Buckner, LeeAnne Green Snyder, Elliott Sherr, John Spiro, Wendy Chung, Alexandre Reymond, Nadia Chabane, Sebastien Jacquemont, Borja Rodríguez-Herreros, Centre Cantonale Autisme, Lausanne University Hospital, Lausanne, Switzerland
- MT232** **Cerebral atrophy patterns in Rasmussen encephalitis are related to distinct cerebellar abnormalities**
Johannes Reiter, Bastian David, Selma Enders, Conrad Prillwitz, Tobias Bauer, Mar Brugues, Deniz Atalay, Anna Tietze, Angela Kaindl, Vera Keil, Alexander Radbruch, Bernd Weber, Albert Becker, Christian Elger, Rainer Surges, Theodor Rüber, Department of Epileptology, University Hospital Bonn, Bonn, Germany
- MT233** **A Continuum of Attention Dysfunction: Evidence from Dynamic Functional Network Connectivity Analysis**
Halima Rafi, Farnaz Delavari, Nader Perroud, Melodie Derome, Martin Debbané, University of Geneva, Geneva, Switzerland
- MT234** **Aberrant cortical thickness and gyrification are linked to synaptic organization in preterm adults**
Melissa Thalhammer, Aurore Menegaux, Dennis Hedderich, David Schinz, Benita Schmitz-Koep, Marcel Daamen, Henning Boecker, Dieter Wolke, Peter Bartmann, Christian Sorg, Department of Diagnostic and Interventional Neuroradiology, Technical University of Munich, Munich, Germany
- MT235** **Representational similarity of voluntary action and inhibition in Tourette syndrome**
Joanna McLaren, Eleanor Ambridge, Petar Raykov, Cassandra Gould van Praag, Samira Bouyagoub, Liliana Polyanksa, Dennis Larsson, Hugo Critchley, Charlotte Rae, University of Sussex, Hove, United Kingdom
- MT236** **Longitudinal changes in cortical thickness and measures of autism spectrum disorder symptom severity**
Hanna Seelemeyer, Caroline Mann, Anke Bletsch, Tim Schäfer, Valentina Bieneck, Jennifer Zimmermann, Njål Herøy, Christine Ecker, University Hospital Frankfurt, Department of Child and Adolescent Psychiatry, Frankfurt am Main, Germany
- MT237** **The functional connectivity of the hippocampus in adolescents following concussion**
Rachelle Ho, Saurabh Shaw, Nicholas Bock, Michael Noseworthy, Carol DeMatteo, Geoffrey Hall, McMaster University, Toronto, Canada
- MT238** **Examining the interaction between prenatal stress and polygenic risk for ADHD on brain growth**
Mónica López-Vicente, Eszter Szekely, Marie-Elyse Lafaille-Magnan, Alexia Jolicoeur-Martineau, Bruce Morton, Tim Oberlander, Celia Greenwood, Anqi Qiu, Ryan Muetzel, Henning Tiemeier, Ashley Wazana, Tonya White, Erasmus MC, Rotterdam, Netherlands
- MT239** **The role of frontoparietal white matter structure in ADHD-impaired response inhibition**
Danny Smullen, Tamar Kolodny, Lilach Shalev, Andrew Bagshaw, Carmel Mevorach, University of Birmingham, Redditch, United Kingdom
- MT240** **Cerebellar gradient of volume reduction in Fetal Alcohol Syndrome: toward a neuroanatomical marker?**
Justine Fraize, Clara Fischer, Monique Elmaleh-Bergès, Eliot Kerdreux, Charlotte Pinabiaux, Anita Beggiano, Alexandra Ntorkou, Pauline Garzòn, Dhaif Bekha, Odile Boespflug-Tanguy, Richard Delorme, Lucie Hertz-Pannier, David Germanaud, Neurospin, Gif Sur Yvette, France
- MT241** **Combined electrophysiology and morphology in genetic generalized epilepsy and healthy siblings**
Christina Stier, Markus Loose, Raviteja Kotikalapudi, Adham Elshahabi, Yiwen Li Hegner, Justus Marquetand, Christoph Braun, Holger Lerche, Niels Focke, University Medical Center Göttingen, Göttingen, Germany
- MT242** **Infants Subcortical Brain Volumes and Temperament following Prenatal Stress Exposure during COVID-19**
Ti-Amo Richards, Catherine Lebel, Lianne Tomfohr-Madsen, Gerry Giesbrecht, Li Wang, University Of Calgary, Calgary, Canada
- MT243** **White Matter Microstructure and Neurodevelopment in Young Children with Prenatal Alcohol Exposure**
Irene Manalastas, Preeti Kar, Jess Reynolds, Ben Gibbard, Carly A. McMorris, Christina Tortorelli, Catherine Lebel, University of Calgary, Calgary, Canada
- MT244** **Atypical spatiotemporal dynamics of the functional brain in autism**
Kyoungseob Byeon, Jong-eun Lee, Hyunjin Park, Seok-Jun Hong, Sungkyunkwan University, Jangan-gu, Suwon-si, Korea, Republic of
- MT245*** **Delineating the Time-Course of Visual System Plasticity, Pre- and Post-Pediatric Occipital Lobectomy**
Michael Granovetter, Tina Liu, Anne Margarete Maallo, Christina Patterson, Marlene Behrmann, Carnegie Mellon University, Pittsburgh, United States
- MT246** **Impact of prenatal exposure to THC on neonatal brain anatomy and behaviour in mice**
Lani Cupo, Annie Phan, Elisa Guma, Daniel Gallino, Jeremie Fouquet, Gabriel Devenyi, Mallar Chakravarty, McGill University, Verdun, Canada

- MT247** **White matter microstructure predicts individual's responses to rTMS in children with autism**
Hsiang-Yuan Lin, Hsing-Chang Ni, Yi-Ping Chao, Rung-Yu Tseng, Chun-Hung Yeh, University of Toronto, Toronto, Canada
- MT248** **Delineate and individually evaluate brain morphometry for preschool children**
Zhi Yang, Hongxi Zhang, Junfen Fu, Ti-Fei Yuan, Jia Li, Shanghai Mental Health Center, Shanghai, China
- MT249** **Extending the reading network: thalamo-cortical connectivity in children with and without dyslexia**
Linda Romanovska, Sonja Kotz, Milene Bonte, Maastricht University, Maastricht, Netherlands
- MT250** **Does tDCS influence voice processing in teenagers with autism? An fMRI case study of 3 teenagers**
Camille Ricou, Christina Luckhardt, Christine M. Freitag, Christine Ecker, Astrid Dempfle, Ricardo Salvador, Giulio Ruffini, Helena C. Pereira, Miguel Castelo-Branco, Julia Siemann, Michael Siniatchkin, Frédérique Bonnet-Brilhault, Marianne Latinus, INSERM, Tours, France
- MT251** **Bihemispheric Developmental Alterations in Basal Ganglia Volumes Following Perinatal Stroke**
Jordan Hasset, Helen Carlson, Ali Babwani, Adam Kirton, University of Calgary, Chestermere, Canada
- MT252*** **3T surface-based relaxometry assessment of cortical pathology in drug-resistant paediatric epilepsy**
Chiara Casella, Katy Vecchiato, Emer Hughes, Louise Dillon, Elaine Green, Lucilio Cordero Grande, Shaihan Malik, Rui Pedro Teixeira, David Carmichael, Jonathan O'Muircheartaigh, King's College London, London, United Kingdom
- MT253** **The Relation of Neurovascular Function, Outcomes, and Nitric Oxide in Congenital Heart Disease**
Vanessa Schmithorst, Philip Adams, Daryaneh Badaly, Vincent Lee, Julia Wallace, Nancy Beluk, Jodie Votava-Smith, Sue Beers, Jacqueline Weinberg, Cecilia Lo, Ashok Panigrahy, University of Pittsburgh, Cheswick, United States
- MT254** **The association between the DISC1 risk variant and cortical thickness in autism spectrum disorder**
Yi-Ling Chien, Susan Shur-Fen Gau, National Taiwan University Hospital, Taipei, Taiwan
- MT255** **Automated characterisation and lateralisation of hippocampal sclerosis from MRI in children**
Mathilde Ripart, Jordan DeKraker, Maria Eriksson, Rory Piper, Ali Khan, Torsten Baldeweg, Sophie Adler, Konrad Wagstyl, UCL, London, United Kingdom
- MT256** **Association of white matter microstructure in newborns with spina bifida with 2-year outcomes**
Hui Ji, Kelly Payette, Luca Mazzone, Raimund Kottke, Patrice Grehten, Martin Meuli, Ueli Moehrlen, Beatrice Latal, Andras Jakab, University Children's Hospital, Zurich, Zurich, Switzerland
- MT257** **The effects of theta/beta ratio neurofeedback on different theta networks**
Stefanie Enriquez-Geppert, Jaroslav Krc, Hanneke van Dijk, ICAN-group n.a., Martijn Arns, University of Groningen, Groningen, Netherlands
- MT258** **Hippocampal involvement in Postoperative Cerebellar Mutism Syndrome**
Ping Zou, Raja Khan, Matthew Scoggins, Heather Conklin, Stuart McAfee, Giles Robinson, Zoltan Patay, St. Jude Children's Research Hospital, Memphis, United States
- MT259** **Long-term changes of cerebellar structure after premature birth**
Marcel Daamen, Lukas Scheef, Aurore Menegaux, Benita Schmitz-Koep, Dennis Hedderich, Christian Sorg, Dieter Wolke, Peter Bartmann, Henning Boecker, German Center for Neurodegenerative Diseases, Bonn, Germany
- MT260** **Hemispheric Brain Asymmetry in Future Autism Spectrum Disorders: A Fetal MRI Study**
Alpen Ortug, Yurui Guo, Henry Feldman, Yangming Ou, Harrison Dieuveuil, Nicole Tara Baumer, Susan Kaminski Faja, Emi Takahashi, Harvard Medical School, Boston, United States
- MT261** **Predicting Transdiagnostic Social Impairments in Childhood using Connectome-based Predictive Modelin**
Alexander Dufford, Violet Kimble, Link Tejavibulya, Javid Dadashkarimi, Karim Ibrahim, Denis Sukhodolsky, Dustin Scheinost, Yale University, New Haven, United States
- MT262** **Children with autism show increased connectivity during the processing of pragmatic speech acts**
Amparo Marquez, Vasily Vakorin, Xiaway Song, Sam Doesburg, Sylvain Moreno, Simon Fraser University, Vancouver, Canada
- MT263** **Altered Cortical Folding in Children with Fetal Alcohol Spectrum Disorders**
Hyuk Jin Yun, Banu Ahtam, Joseph Jacobson, Sandra Jacobson, Kiho Im, Boston Children's Hospital, Boston, United States
- MT264** **Functional Connectivity in Adolescents Assigned Female at Birth who Experience Gender Dysphoria**
Malvina Skorska, Nancy Lobaugh, Michael Lombardo, Sofia Chavez, Lindsey Thurston, Ken Zucker, Mallar Chakravarty, Madison Aitken, Meng-Chuan Lai, Doug VanderLaan, Centre for Addiction and Mental Health, Toronto, Canada
- MT265** **Brain age estimation in fetuses with ventriculomegaly using a deep learning network**
Hyuk Jin Yun, Hyun Ju Lee, Joo Young Lee, Jerjes Aguirre-Chavez, Caitlin Rollins, Cynthia Ortinou, P Ellen Grant, Kiho Im, Boston Children's Hospital, Boston, United States
- MT266** **Maternal Inflammation and Other Prenatal Adversities: Associations with White Matter Microstructure**
Anni Niskanen, Lassi Björnholm, Martta Kerkelä, Tiina Riekkö, Juha Veijola, University of Oulu, Oulu, Finland
- MT267** **Characterizing Individual Heterogeneity of Brain Functional Network Architecture in Autism**
Iva Ilioska, Marianne Oldehinkel, Alberto Llera, Andre Marquand, Christian Beckmann, Jan Buitelaar, Alex Fornito, Donders Institute for Brain Cognition and Behavior, Nijmegen, Netherlands
- MT268** **A novel threshold-free graph theory metric to characterize atypical brain aging trajectories in ASD**
Melissa Walsh, Georgia Sullivan, Yalin Wang, B. Blair Braden, Arizona State University, Tempe, United States
- MT269** **Atypical thalamo-cortical connectivity gradients in autism spectrum disorder**
Valeria Kebets, Oualid Benkarim, Bo-yong Park, Sofie L. Valk, Seok-Jun Hong, Boris Bernhardt, McGill University, Montreal, Canada
- MT270** **Radiation therapy disrupts BOLD signal amplitude in pediatric brain tumor patients**
Benjamin Seitzman, Michael Olufawo, Timothy Mitchell, Anna Dowling, A. Agamah, Rachel Butler, Hari Anandarajah, Donna Dierker, Joshua Rubin, Joshua Shimony, Stephanie Perkins, Washington University in Saint Louis, Saint Louis, United States

- MT271 Brain predictors of accelerated visual memory decline in older adults with ASD: a case for freewater**
Melissa Walsh, Edward Ofori, Broc Pagni, Kewei Chen, Georgia Sullivan, B. Blair Braden, Arizona State University, Tempe, United States
- MT272 Deep learning identifies robust sex differences in functional brain organization in autism**
Kaustubh Supekar, Carlo de los Angeles, Srikanth Ryali, Vinod Menon, Stanford University, Stanford, United States
- MT273 Altered functional connectivity of the amygdala in 12-month-old infants at risk for autism**
Janelle Liu, Jessica Girault, Tomoyuki Nishino, Mark Shen, Sun Hyung Kim, Kelly Botteron, Annette Estes, Stephen Dager, Heather Hazlett, Robert McKinstry, Robert Schultz, Abraham Snyder, Martin Styner, Lonnie Zwaigenbaum, John Pruett, Joseph Piven, Wei Gao, Cedars-Sinai Medical Center, Los Angeles, United States
- MT274 Mapping associations between polygenic risk for ADHD, ADHD symptoms, and response inhibition**
Gülhan Saracaydin, Hyun Ruisch, Daan van Rooij, Jan Buitelaar, Andrea Dietrich, Pieter Hoekstra, University Medical Center Groningen, Groningen, Netherlands
- MT275 Cognitive deficits and altered functional network organization in pediatric brain tumor patients**
Benjamin Seitzman, Hari Anandarajah, Alana McMichael, Ally Dworetzky, Rebecca Coalson, Anna Dowling, Michael Olufawo, Catherine Jiang, Hongjie Gu, Dennis Barbour, Bradley Schlaggar, David Limbrick, Joshua Rubin, Joshua Shimony, Stephanie Perkins, Washington University in Saint Louis, Saint Louis, United States
- MT276 Callosal developmental trajectories in preterm children and association with cognitive functioning**
Vanessa Siffredi, Maria Chiara Liverani, Dimitri Van De Ville, Lorena Freitas, Cristina Borradori Tolsa, Petra Huppi, Russia Hà-Vinh Leuchter, University of Geneva, Geneva, Switzerland
- MT277 The Role of Bilingualism on Gray Matter Volume Differences in Children with Reading Disability**
Alison Schug, Guinevere Eden, Georgetown University, Rockville, United States
- MT278 Violence and Internalizing Symptoms Association Explained by Inflammation and Amygdala Connectivity**
Ellyn Butler, Gregory Miller, Robin Nusslock, Northwestern University, CHICAGO, United States
- MT279 Neural Correlates of Empathic Accuracy in Autism-spectrum and Schizophrenia-spectrum Disorders**
Iska Moxon-Emre, Lindsay Oliver, Colin Hawco, Erin Dickie, Rachael Lyon, Peter Szatmari, John Haltigan, Anna Goldenberg, Pushpal Desarkar, Robert Buchanan, Anil Malhotra, Meng-Chuan Lai, Aristotle Voineskos, Stephanie Ameis, Centre for Addiction and Mental Health, Toronto, Canada
- MT280 Tuber involvement of the fusiform face area predicts ASD in children with tuberous sclerosis complex**
Mallory Kroeck, Alexander Cohen, Juliana Wall, Peter McManus, Arina Ovchinnikova, Martina Bebin, Joyce Wu, Hope Northrup, Darcy Krueger, Mustafa Sahin, Simon Warfield, Jurriaan Peters, Michael Fox, Boston Children's Hospital, McMinville, United States
- MT281 Chronic Exposure to Stimulants in Youth Moderates Resting-State and ADHD Severity Over Two Years**
Adam Kaminski, Xiaozhen You, Chandan Vaidya, Georgetown University, Washington, DC, United States
- MT282 Autonomic arousal and amygdala-frontal connectivity in children with and without ASD**
Jellina Prinsen, Nicky Daniels, Matthijs Moerkerke, Tiffany Tang, Stephanie Van der Donck, Jean Steyaert, Bart Boets, Kaat Alaerts, KU Leuven, Leuven, Belgium
- MT283 Magnetoencephalography Intra-Hemispheric Functional Connectivity Findings Post Childhood Stroke**
Trish Domi, Nomazulu Dlamini, Darren Kadis, Hospital for Sick Children, Toronto, Canada
- MT284 Neuroanatomical Subtyping of Autism Spectrum Disorder with Morphometric Similarity Networks**
Hongxiu Jiang, Boris Bernhardt, Xiaoqian Chai, McGill University, Montreal, Canada
- MT285 Atypical intrinsic neural timescales in temporal lobe epilepsy**
Ke Xie, Jessica Royer, Sara Lariviere, Raul Rodriguez-Cruces, Shahin Tavakol, Bo-yong Park, Reinder Vos de Wael, Andrea Bernasconi, Neda Bernasconi, Birgit Frauscher, Luis Concha, Boris Bernhardt, McGill University, Montreal, Canada
- MT286 Application of EEG Phase-Amplitude Coupling to Stratify Severity of Neonatal Encephalopathy**
Xinlong Wang, Hanli Liu, Srinivas Kota, Yudhajit Das, Yulun Liu, Rong Zhang, Lina Chalak, University of Texas Arlington, Arlington, United States
- MT287 Contralesional White Matter May Support Language Processing in Perinatal Stroke**
Bryce Geeraert, Helen Carlson, Adam Kirton, University of Calgary, Calgary, Canada
- MT288 Perinatal Exposure to Maternal Western-Style Diet Influences Amygdala and Hippocampal Development**
AJ Mitchell, Bene Ramirez, Robert Hermsillo, Hanna Gustafsson, Damien Fair, Elinor Sullivan, OHSU, Portland, United States
- MT289 Subcortical Morphometric Differences and Heterogeneity in Autism Spectrum Disorder**
David MacDonald, Saashi A. Bedford, Emily Olafson, Min Tae Park, Gabriel A. Devenyi, Stephanie Tullo, Patel Raihaan, Evdokia Anagnostou, Simon Baron-Cohen, Edward T. Bullmore, Lindsay Chura, Michael Craig, Christine Ecker, Dorothea Floris, Rosemary Holt, Rhoshel Lenroot, Jason Lerch, Michael Lombardo, Declan Murphy, Armin Raznahan, Amber Ruigrok, Elizabeth Smith, Russell Shinohara, Michael Spencer, John Suckling, Margot Taylor, Audrey Thurm, Meng-Chuan Lai, Mallar Chakravarty, McGill University, Montreal, Canada
- MT290 Machine Learning Identifies Multimodal Biomarkers That Delineate Autism Spectrum Disorder Subgroups**
Amanda Buch, Petra Vertes, Jakob Seidlitz, So Hyun Kim, Logan Grosenick, Conor Liston, Weill Cornell Medicine, Cornell University, New York, United States

Psychiatric (eg. Depression, Anxiety, Schizophrenia)

- MT291 MRI functional connectivity sex differences of nicotine smoking**
Hugo Sandoval, Vince Calhoun, Jose Gavito, Texas Tech Health Science Center El Paso, El Paso, United States
- MT292 Trans-Diagnostic Structural Imaging in Psychosis: A Comparison Across Schizophrenia, FTD and AD**
David Benrimoh, Elisa Guma, Gabriel A. Devenyi, Mallar Chakravarty, Alain Dagher, Martin Lepage, Mistic Bratislav, Simon Ducharme, McGill University, Montréal, Canada

- MT293 Emotional brain responses: an endophenotype of schizophrenia? An Image-based fMRI meta-analysis**
Anna Fiorito, Eric Fakra, Guillaume Sescousse, Centre de Recherche en Neurosciences de Lyon (CRNL), Lyon, France
- MT294 Network analysis for Emotion Causality: an MEG study**
Yutaka Kato, Yuichi Takei, Reiko Oi, Satoshi Umeda, Masaru Mimura, Masato Fukuda, Tsutsuji Mental Hospital, Tatebayashi, Gunma-Prefecture, Japan
- MT295 Machine-Learning Based Identification of Structural Brain Alterations in Adolescents at Suicide Risk**
Sahil Bajaj, Karina Blair, Matthew Dobbertin, Patrick Tyler, Jay Ringle, Ru Zhang, Avantika Mathur, Johannah Bashford-Largo, Jaimie Elowsky, James Blair, Boys Town National Research Hospital, Boys Town, United States
- MT296 Neurobiological and psychosocial factors in alcohol-use disorder**
Milky Kohno, Laura Dennis, Holly McCreedy, Daniel Smith, William Hoffman, OHSU and VA Portland Health Care System, Portland, United States
- MT297* Linking morphometric patterns of the psychosis spectrum to cognition and functional gradients**
Alyssa Dai, Raihaan Patel, Gabriel A. Devenyi, Ross Markello, Tyler Moore, HaoMing Dong, Jakob Seidlitz, Avram Holmes, Theodore Satterthwaite, Mallar Chakravarty, Douglas Mental Health University Institute, Montreal, Canada
- MT298 Differential age-associated brain atrophy and white matter changes among precariously housed persons**
Jacob Stubbs, Andrea Jones, Daniel Wolfman, Ryan Chan, Alexandra Vertinsky, Manraj Heran, Wayne Su, Donna Lang, Thalia Field, Kristina Gicas, Melissa Woodward, Allen Thornton, Alasdair Barr, Olga Leonova, William MacEwan, Alexander Rauscher, William Honer, William Panenka, University of British Columbia, Vancouver, Canada
- MT299 Neuroanatomical changes in self-reported anxiety among healthy young adults: A structural approach**
Sanjana Sundara Raj Sreenath, Hugo Sandoval, Jose Gavito, Texas Tech University Health Sciences Center – El Paso, El Paso, United States
- MT300 Dynamic Changes in the Central Autonomic Network of Acute Anorexic Patients**
Feliberto De la Cruz, Andy Schumann, Stefanie Suttkus, Regine Zopf, Nadin Helbing, Karl-Jürgen Bär, University Hospital Jena, Jena, Germany
- MT301* Heterogeneity in Late Life Depression: data-driven bio-typing within clinically homogenous subgroups**
Kayla Hannon, Ty Easley, Andre Marquand, Wei Zhang, Janine Bijsterbosch, Washington University in St Louis, Saint Louis, United States
- MT302 Modulated Dynamic Functional Connectivity State in Depression during Electroconvulsive Therapy**
Yusuke Kyuragi, Naoya Oishi, Toshiya Murai, Taro Suwa, Graduate School of Medicine, Kyoto University, Kyoto city, Japan
- MT303 State-space pattern defines biotypes of first-episode drug naïve depression**
Peng Li, Xiao Lin, Rixing Jing, QianDong Wang, Yong Fan, Lin Lu, Peking University Sixth Hospital, Beijing, China
- MT304 Movies On The Mind: Can Brain Activity During Movie-Watching Widen Our Understanding Of Anxiety?**
Peter Kirk, Avram Holmes, Jeremy Skipper, Oliver Robinson, University College London, London, United Kingdom
- MT305 Unconscious emotional conflict in major depressive disorder: A simultaneous EEG-fMRI study**
Julia Schröder, Ute Habel, Han-Gue Jo, Lisa Wagels, RWTH Aachen University, Aachen, Germany
- MT306 Large-Scale Analysis of Brain Structural Asymmetries in Schizophrenia via the ENIGMA Consortium**
Dick Schijven, Merel Postema, ENIGMA-Schizophrenia Working Group, Simon Fisher, Barbara Franke, David Glahn, Ruben Gur, Ryota Hashimoto, Neda Jahanshad, Eileen Luders, Sarah Medland, Paul Thompson, Jessica Turner, Theo Van Erp, Clyde Francks, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands
- MT307 Investigation of the major depression connectome at resting state using MEG: a preliminary study**
Yuichi Takei, Yutaka Kato, Minami Tagawa, Tomohiro Suto, Masakazu Sunaga, Reiko Oi, Noriko Sakurai, Masato Fukuda, Department of Psychiatry and Neuroscience, Graduate School of Medicine, Gunma University, Maebashi, Japan
- MT308 An MEG study of Neural Mechanism relating to the Intolerance of Uncertainty using the Flanker Task**
Reiko Oi, Yuichi Takei, Yutaka Kato, Masashi Suda, Masato Fukuda, Department of Psychiatry and Neuroscience, Gunma University Graduate School of Medicine, Maebashi, Japan
- MT309 A Potential Biomarker for Psychosis Spectrum Symptoms in 22q11.2 Deletion Syndrome**
Carina Heller, Holly Carrington, Christopher Ching, Leila Kushan, Maria Jalbrzikowski, Maria Gudbrandsen, Declan Murphy, Eileen Daly, Michael Craig, Kevin Antshel, Wanda Fremont, Wendy Kates, Carrie Bearden, Zora Kikinis, University Hospital Jena, Jena, Germany
- MT310 Results of two coordinate-based meta-analyses of gray and white matter differences in PTSD**
Sebastian Siehl, Frauke Nees, University Medical Center Schleswig-Holstein, Kiel University, Kiel, Germany
- MT311* Simultaneous fMRI and pupillometry reveals affective processing in a cognitive task**
Julia Fietz, Dorothee Pöhlchen, BeCOME working group, Tanja Brückl, Anna-Katharine Brem, Frank Padberg, Michael Czisch, Philipp Sämann, Victor Spoormaker, Max Planck Institute of Psychiatry, Munich, Germany
- MT312 Characterizing Brain Structure Alterations in Anorexia Nervosa through Multivariate Machine Learning**
Dominic Arold, Fabio Bernardoni, Stefan Ehrlich, University Hospital Dresden, Dresden, Germany
- MT313 Cognitive performance and brain structural connectome alterations in major depressive disorder**
Marius Gruber, Marco Mauritz, Susanne Meinert, Dominik Grotegerd, Siemon de Lange, Pascal Grumbach, Janik Goltermann, Nils Winter, Lena Waltemate, Hannah Lemke, Thiel Katharina, Alexandra Winter, Fabian Breuer, Tiana Borgers, Verena Enneking, Melissa Klug, Katharina Brosch, Tina Meller, Julia Pfarr, Kai Ringwald, Frederike Stein, Nils Opel, Ronny Redlich, Tim Hahn, Elisabeth Leehr, Jochen Bauer, Igor Nenadic, Tilo Kircher, Martijn van den Heuvel, Udo Dannlowski, Jonathan Repple, Institute for Translational Psychiatry, University of Münster, Münster, Germany

- MT314 The effect of antagonistic SNPs associated with psychiatric disorders on brain structure**
Lydia Federmann, Lisa Sindermann, Christiane Jockwitz, Friederike David, Alexander Teumer, Dominique Hilger, Markus Nöthen, Katrin Amunts, Udo Dannlowski, Thomas Mühleisen, Svenja Caspers, Sven Cichon, Andreas Forstner, Forschungszentrum Jülich GmbH, Jülich, Germany
- MT315 Analysis of brain energy landscape dynamics during psilocybin and SSRI treatment for depression**
Parker Singleton, Robin Carhart-Harris, David Nutt, Leor Roseman, Amy Kuceyeski, Cornell University, North Charleston, United States
- MT316 Disentangling dyskinesia from parkinsonism in motor structures of patients with schizophrenia**
Katrin Sakreida, Wei-Hua Chiu, Juergen Dukart, Simon Eickhoff, Thomas Frodl, Christian Gaser, Michael Landgrebe, Berthold Langguth, Daniela Mirlach, Sabina Rautu, Markus Wittmann, Timm B. Poepl, RWTH Aachen University, Aachen, Germany
- MT317 Individual Variability in Brain Self-regulation by Neurofeedback Associated with Treatment Effects**
Masaya Misaki, Aki Tsuchiyagaito, Martin Paulus, Salvador Guinjoan, Laureate Institute for Brain Research, Tulsa, United States
- MT318 Normative modelling of cortical thickness in Major Depressive Disorder**
Johanna Bayer, Laura van Velzen, Elena Pozzi, Richard Dinga, Yara Toenders, Dick Veltman, Paul Thompson, Andre Marquand, Lianne Schmaal, Working Group ENIGMA MDD, The University of Melbourne, Melbourne, Australia
- MT319 Superior Temporal Gyrus thickness changes in MDD Patients**
Deng Mao, Huawang Wu, Xiaoyan Wu, Yuting He, Cuicui Lin, Lixin Qiu, Kemeng Chen, Chuchu Jia, Ruiwang Huang, School of Psychology, Key Laboratory of Brain, South China Normal University, Guangzhou, China
- MT320 Changes in the connectome according to eating disorder tendencies in healthy females: a MEG study**
Masashi Suda, Yuichi Takei, Yutaka Kato, Reiko Oi, Masato Fukuda, Gunma University, Maebashi, Japan
- MT321 The neurophysiological impact of schizophrenia risk genes on working memory consolidation**
Robert Bittner, Peter Hahn, Meike Hettwer, Eva Raspor, Christina Novak, Wolf Singer, Danko Nikolic, Tom Lancaster, David Linden, Andreas Reif, University Hospital Frankfurt, Goethe University, Frankfurt, Germany
- MT322 The discovery of two schizophrenia subtypes suggested by Machine Learning**
Robin Louiset, Anton Iftimovici, Pietro Gori, Benoit Dufumier, Julie Victor, Antoine Grigis, Edouard Duchesnay, NeuroSpin, Paris, France
- MT323 A Meta-Analytic Investigation of Grey Matter Changes in Anorexia Nervosa**
Michelle Sader, Gordon Waiter, Justin Williams, University of Aberdeen, Aberdeen, United Kingdom
- MT324 Grey matter morphometry and MRI data-driven classification of premenstrual dysphoric disorder**
Manon Dubol, Louise Stiernman, Inger Sundström-Poromaa, Marie Bixo, Erika Comasco, Uppsala Universitet, Uppsala, Sweden
- MT325 Common and distinct patterns of dysconnectivity across affective and psychotic disorders**
Jonathan Repple, Marius Gruber, Marco Mauritz, Siemon de Lange, Martijn van den Heuvel, Udo Dannlowski, Institute for Translational Psychiatry, Muenster, Germany
- MT326 Reward-related resting state functional connectivity in adolescent cannabis use**
Tram Nguyen, Benjamin Ely, Sherry Simkovic, Jennifer Alexander, Vilma Gabbay, Albert Einstein College of Medicine, Bronx, United States
- MT327 Functional connectivity during an audio task is altered after MDMA-assisted psychotherapy for PTSD**
Parker Singleton, Julie Wang, Michael Mithoefer, Colleen Hanlon, Mark George, Annie Mithoefer, Allison Coker, Berra Yazar-Klosinski, Amy Emerson, Rick Doblin, Amy Kuceyeski, Cornell University, North Charleston, United States
- MT328 Disrupted restoration of brain connectivity during weight normalization in severe anorexia nervosa**
Lisa-Katrin Kaufmann, Jürgen Hänggi, Lutz Jäncke, Volker Baur, Marco Piccirelli, Spyros Kollias, Ulrich Schnyder, Chantal Martin-Soelch, Gabriella Milos, Donders Institute for Brain, Cognition and Behaviour, Radboud University, Zurich, Switzerland
- MT329 Volumetric differences in cerebellar subregions in PTSD: a PGC-ENIGMA PTSD workgroup study**
Ashley Huggins, C. Lexi Baird, Melvin Briggs, Samar Fouda, Courtney Haswell, Sarah Laskowitz, Rajendra Morey, Duke University, Durham, United States
- MT330 Ketamine and psilocybin differentially impact top-down predictions during the mismatch negativity**
Shona Allohverdi, Daniel Hauke, André Schmidt, Franz Vollenweider, Andreea Diaconescu, University of Toronto, Toronto, Canada
- MT331 Effect of acute ketamine in major depression on vigilance**
Jen Evans, Vasileia Kotoula, Carlos Zarate, NIH, Bethesda, United States
- MT332 How alcohol cues trigger neural responses: decoding fMRI patterns of cue-reactivity**
Haoye Tan, Martin Gerchen, Patrick Bach, Alycia Lee, Oliver Hummel, Wolfgang Sommer, Peter Kirsch, Falk Kiefer, Sabine Vollstädt-Klein, Central Institute of Mental Health, Mannheim, Germany
- MT333 A cross-sectional and longitudinal study of white matter fiber alterations in bipolar disorder**
Chun-Hung Yeh, Matteo Martino, Hsiang-Yuan Lin, Rung-Yu Tseng, Mario Amore, Paola Magioncalda, Institute for Radiological Research, Chang Gung University, Taoyuan, Taiwan
- MT334 A multiscale characterization of neural heterogeneity in psychiatric disorders**
Ashlea Segal, Linden Parkes, Kevin Aquino, Seyed Kia, Thomas Wolfers, Barbara Franke, Martine Hoogman, Christian Beckmann, Lars Westlye, Ole Andreassen, Andrew Zalesky, Ben Harrison, Christopher Davey, Carles Soriano-Mas, Jeggan Tiego, Murat Yücel, Leah Braganza, Chao Suo, Michael Berk, Sue Cotton, Mark Bellgrove, Andre Marquand, Alex Fornito, Turner Institute for Brain and Mental Health, Monash University, Melbourne, Australia
- MT335 Mesial Temporal Tau Accumulation and Synaptic Density are not associated with Late Life Depression**
Thomas Vande Casteele, Maarten Laroy, Margot Van Cauwenberge, Greet Vanderlinden, Laura Michiels, Michel Koole, Patrick Dupont, Stefan Sunaert, Jan Van den Stock, Filip Bouckaert, Koen Van Laere, Louise Emsell, Mathieu Vandenbulcke, KU Leuven, Leuven, Belgium

- MT336 Longitudinal changes in processing speed and white matter structure depend on depressive recurrence**
Susanne Meinert, Christopher Hirtsiefer, Dominik Grotegerd, Jonathan Repple, Katharina Thiel, Alexandra Winter, Lena Waltemate, Hannah Lemke, Frederike Stein, Katharina Brosch, Julia Pfarr, Kai Ringwald, Florian Thomas-Odenthal, Marius Gruber, Igor Nenadic, Axel Krug, Elisabeth Leehr, Tim Hahn, Tilo Kircher, Udo Dannlowski, Institute for Translational Psychiatry, Münster, Germany
- MT337 Schizophrenia polygenic risk-associated multimodal MRI frontotemporal biomarkers**
Shile Qi, Jing Sui, Godfrey Pearlson, Juan Bustillo, Nora I. Perrone-Bizzozero, Peter Kochunov, Jessica A. Turner, Zening Fu, Wei Shao, Rongtao Jiang, Xiao Yang, Jingyu Liu, Yuhui Du, Jiayu Chen, Daoqiang Zhang, Vince Calhoun, Nanjing University of Aeronautics and Astronautics, Nanjing, China
- MT338 Increased Dispersion of Thalamic Functional Hierarchies in Early-onset Schizophrenia**
Yun-Shuang Fan, Yong Xu, Şeyma Bayrak, Haoru Li, Liang Li, Huafu Chen, Sofie Valk, max planck institute for human cognitive and brain sciences, Leipzig, Germany
- MT339 Associations of negative symptom scores with functional connectivity across resting state datasets**
Bhim Adhikari, Stephanie Hare, Jesse Edmond, Alie Male, Gregory Strauss, Elliot Hong, Peter Kochunov, Vince Calhoun, Theo Van Erp, Jessica A. Turner, University of Maryland School of Medicine, Baltimore, United States
- MT340 The Structural Connectome Shapes Longitudinal Grey Matter Changes in Psychosis**
Sidhant Chopra, Stuart Oldham, Ashlea Segal, Alexander Holmes, Kristina Sabaroedin, Edwina Orchard, Shona Francey, Brian O'Donoghue, Vanessa Copley, Barnaby Nelson, Jessica Graham, Lara Baldwin, Jeggan Tiego, Hok Pan Yuen, Kelly Allott, Mario Alvarez-Jimenez, Susy Harrigan, Christos Pantelis, Stephen Wood, Mark Bellgrove, Patrick McGorry, Alex Fornito, Monash University, Melbourne, Australia
- MT341 Neuroanatomical Subgroups in Juvenile Mood and Anxiety Disorders**
Ruiyang Ge, Amirhossein Modabbernia, Sophia Frangou, University of British Columbia, Vancouver, Canada
- MT342 Normalization of Anterior Cingulate Cortex Activation after Cognitive-Behavioral Therapy for ARFID**
Kendra Becker, Avery Van De Water, Lauren Breithaupt, Helen Murray, Rebecca Karlson, Casey Stern, Megan Kuhnle, Kristine Hauser, Madhusmita Misra, Elizabeth Lawson, Laura Holsen, Kamryn Eddy, Jennifer Thomas, MGh/HMS, Boston, United States
- MT343 The anatomical individual-specific topography assists the precise diagnosis of the major depression**
Liang Ma, Dongmei Zhi, Haiyan Wang, Jing Sui, Tianzi Jiang, University of Chinese Academy of Sciences, Beijing, China
- MT344 Prediction of nightmare frequency after the Covid-19 pandemic by resting-state fMRI**
Jiaqi Li, Haobo Zhang, Yufang Ji, Yun Tian, Xu Lei, Southwest University, Chongqing, China, China
- MT345 Separable frontal alterations during facial emotion processing in anxiety and depression**
Yuanshu Chen, Congcong Liu, Fei Xin, Haochen Zou, Yulan Huang, Jinyu Wang, Jing Dai, Zhili Zou, Keith Kendrick, Bo Zhou, Xiaolei Xu, Benjamin Becker, University of Electronic Science and Technology of China, Chengdu, China
- MT346 Structural and Functional Connectivity Signatures of Apathy and Predictors of Treatment Response**
Lauren Oberlin, Lindsay Victoria, Katharine Dunlop, Dustin Phan, Irena Ilieva, Matthew Hoptman, Jimmy Avari, George Alexopoulos, Faith Gunning, Weill Cornell Medicine, New York, United States
- MT347 Self-blame-selective anterior temporal-subgenual connectivity predicts prognosis in depression**
Diede Fennema, Gareth J. Barker, Owen O'Daly, Philippa Harrison, Suqian Duan, Jorge Moll, Roland Zahn, IoPPN, King's College London, London, United Kingdom
- MT348 Advanced brain age in schizophrenia: a worldwide ENIGMA-Schizophrenia study**
Danai Dima, Constantinos Constantinides, Esther Walton, City, University of London, London, United Kingdom
- MT349 No structural changes follow progesterone depletion in women with premenstrual dysphoric disorder**
Elisavet Kaltsouni, Manon Dubol, Erika Comasco, Inger Sundström-Poromaa, Uppsala University, Uppsala, Sweden
- MT350 Higher order features in brain networks in schizophrenia: Effects of learning without contingencies**
Elizabeth Martin, Asadur Chowdury, Sazid Hasan, Munajj Ul-Huq, Shahira Baajour, Patricia Thomas, Dalal Khatib, Usha Rajan, Luay Haddad, Alireza Amirsadri, Jeffrey Stanley, Vaibhav Diwadkar, Wayne State University School of Medicine, Detroit, United States
- MT351 Grey matter correlates of selective serotonin inhibitor treatment in premenstrual dysphoric disorder**
Felix Schmidt, Manon Dubol, Johan Wikström, Inger Sundström-Poromaa, Erika Comasco, Uppsala University, Uppsala, Sweden
- MT352 A Connectivity-Based fMRI Neurofeedback Targeting the Repetitive Negative Thinking in Depression**
Aki Tsuchiyagaito, Salvador Guinjoan, Namik Kirlic, Stella Sánchez, Kate Fitzgerald, Martin Paulus, Masaya Misaki, Laureate Institute for Brain Research, Tulsa, United States
- MT353 Cortical profiles of many neuropsychiatric disorders and normal development share a common pattern**
Zhipeng Cao, Renata Cupertino, Jonatan Ottino-González, Anthony Juliano, Dekang Yuan, Scott Mackey, Hugh Garavan, University of Vermont, Burlington, United States
- MT354 Resting-state Connectivity may predict treatment outcomes in youths**
Andre Zugman, Grace Ringlein, Daniel Pine, Anderson Winkler, NIMH, Bethesda, United States
- MT355 Aberrant Striatal White Matter Connectivity and Microstructure in Obsessive-Compulsive Disorder**
Hyungyou Park, Minah Kim, Yoo Bin Kwak, Kang Ik Cho, Junhee Lee, Sun-Young Moon, Silvia Kyungjin Lho, Jun Soo Kwon, Seoul National University, Seoul, Korea, Republic of
- MT356 Characterizing Scale-specific Cortical Shape Asymmetries in Early Psychosis**
Yu-Chi Chen, Sidhant Chopra, Ashlea Segal, James Pang, Kevin Aquino, Alex Fornito, Monash University, Oakleigh South, Australia

- MT357 Medial Prefrontal Cortex Dysfunction Mediates Working Memory Deficits in Schizophrenia**
John Williams, Zu Zheng, Jacob Luceno, Philip Tubiolo, Roberto Gil, Ragy Girgis, Jeffrey Lieberman, Mark Slifstein, Anissa Abi-Dargham, Jared Van Snellenberg, Stony Brook University, Bronx, United States
- MT358 Neuromelanin-MRI reveals increased neuromelanin accumulation in schizophrenia**
Sunah Choi, Minah Kim, Jun Soo Kwon, Seoul national university, Seoul, Korea, Republic of
- MT359 Antidepressant doses of ketamine suppress locus coeruleus mediated alertness – a 7T fMRI study**
Thomas Liebe, Lena Danyeli, Meng Li, Agnieszka Zuberer, Zümüt Sen, Martin Walter, Medical University of Jena, Jena, Germany
- MT360 Obsession with COVID-19 pandemic mediates the impact of brain structure on social anxiety alteration**
Xun Zhang, Song Wang, Qiyong Gong, Huaxi MR Research Center (HMRRRC), West China Hospital of Sichuan University, Chengdu, China
- MT361 Neural and Temporal Disambiguation of Two-Tone Images in Early Psychosis**
Franziska Knolle, Olaf Hauk, Lucy MacGregor, Christoph Teufel, Paul Fletcher, Technical University of Munich, Munich, Germany
- MT362 Structural brain correlates in anxiety-, fear-related and depressive disorders: a meta-analysis**
Xiqin Liu, Benjamin Klugah-Brown, Ran Zhang, Jie Zhang, Benjamin Becker, University of Electronic Science and Technology of China, Chengdu, China
- MT363 Patient Subgrouping and Multivariate Brain Morphology to Assess Heterogeneity in Schizophrenia**
Joost Janssen, Noemi Lois, Covadonga Diaz-Caneja, Pedro Gordaliza, Alberto Fernández-Pena, Elizabeth Buimer, Neeltje van Haren, Wiepke Cahn, Celso Arango, René Kahn, Hilleke Hulshoff Pol, Hugo Schnack, IISGM, Madrid, Spain
- MT364* Resting-State Connectivity Signatures Identify Depression Subtypes with Higher ECT Response Rates**
Dongmei Zhi, Vince Calhoun, Chaogan Yan, Christopher Abbott, Shile Qi, Rongtao Jiang, Min Zhao, Jing Sui, Beijing Normal University, BEIJING, China
- MT365 Social cognitive brain volume as a mediator of the link between autistic traits and eating pathology**
Sean Arthur Cully, Malin Bjornsdotter, Sahlgrenska University Hospital, Gothenburg, Sweden
- MT366* Genetic heterogeneity shapes brain connectivity in psychiatry**
Clara Moreau, Annabelle Harvey, Kuldeep Kumar, Guillaume Huguet, Sebastian Urchs, Elise Douard, Laura Schultz, Hanad Sharmarke, Khadije Jizi, Charles-Olivier Martin, Nadine Younis, Petra Tamer, Thomas Rolland, Jean-Louis Martineau, Pierre Orban, Ana Dos Santos Silva, Jeremy Hall, Marianne van den Bree, Michael Owen, David Linden, Aurelie Labbe, Sarah Lippé, Carrie Bearden, Laura Almasy, David Glahn, Paul Thompson, Thomas Bourgeron, Pierre Bellec, Sebastien Jacquemont, Pasteur Institute, Paris, France
- MT367 Correlation between the volume of the hippocampus and the severity of the symptoms in OCD**
Carlos Rosales, Erick Humberto Pasaye Alcaraz, Sarael Alcauter, Azalea Reyes Aguilar, Josefina Ricardo Garcell, institute of neurobiology, Querétaro, Mexico
- MT368 Deficient real-life affective valence and amygdala habituation in at risk mental states**
Oksana Berhe, Anna Höflich, Carolin Moessnang, Markus Reichert, Gabriela Gan, Thomas Kremer, Ren Ma, Urs Braun, Ulrich Reininghaus, Ulrich Ebner-Priemer, Andreas Meyer-Lindenberg, Heike Tost, CIMH, Mannheim, Germany
- MT369 Predicting Internalizing Psychopathology in the Adolescent Brain Cognitive Development Study**
Matthew Albaugh, Dekang Yuan, Elina Thomas, Renata Cupertino, Jonatan Ottino-González, Emma Pearson, Scott Mackey, Rex Forehand, Alexandra Potter, Hugh Garavan, University of Vermont, Burlington, United States
- MT370 Multimodal Neuroimaging Characteristics of Cognitive Subgroups of Early Psychosis**
Shalaila Haas, Ruiyang Ge, Amirhossein Modabbernia, Abraham Reichenberg, Heather Whalley, René Kahn, Sophia Frangou, Icahn School of Medicine at Mount Sinai, New York, United States
- MT371 Amygdala connectivity related to subsequent stress responses during the COVID-19 outbreak**
Yuan Zhou, Yuwen He, Yuening Jin, Bei Rong, Peter Zeidman, Huan Huang, Yuan Feng, Jian Cui, Shudong Zhang, Yun Wang, Gang Wang, Yutao Xiang, Huiling Wang, Institute of Psychology, Chinese Academy of Sciences, Beijing, China
- MT372 Acute tryptophan depletion normalizes altered functional connectivity in anorexia nervosa**
Ilka Boehm, Julius Hennig, Franziska Ritschel, Daniel Geisler, Joseph King, Veit Roessner, Florian Zepf, Stefan Ehrlich, TU Dresden, Dresden, Germany
- MT373 Altered rsFC of thalamus subregions in depressed patients with different TCM syndromes**
Lianlu Gao, Yi Du, Yuening Jin, Yuwen He, Yuyang Cai, Li Li, Yuan Zhou, Institute of Psychology, Chinese Academy of Sciences, Beijing, China
- MT374 Associations between serotonergic modulation & reward learning in anorexia nervosa – an fMRI study**
Julius Hennig, Franziska Ritschel, Ilka Boehm, Daniel Geisler, Joseph King, Veit Roessner, Michael N. Smolka, Florian Zepf, Stefan Ehrlich, TU Dresden, Dresden, Germany
- MT375* Rethinking Univariate and Multivariate Biomarker for Major Depression: A Multimodal Evaluation**
Nils Winter, Julian Blanke, Ramona Leenings, Jan Ernsting, Kelvin Sarink, Daniel Emden, Lukas Fisch, Carlotta Barkhau, Frederike Stein, Katharina Brosch, Tilo Kircher, Udo Dannowski, Tim Hahn, Institute for Translational Psychiatry, Münster, Germany
- MT376 Mega-analysis of lithium and hippocampal volume from the ENIGMA Bipolar Disorder Working Group**
Christopher Ching, Giulia Tronchin, Leila Nabulsi, Sophia Thomopoulos, Joaquim Radua, Paul Thompson, Ole Andreassen, Colm McDonald, ENIGMA Bipolar Disorder Working Group, University of Southern California, Marina del Rey, United States
- MT377 Increased dlPFC activity and negative connectivity during implicit processing of food stimuli in AN**
Inger Hellerhoff, Sophie Pauligk, Maria Seidel, Daniel Geisler, Arne Dose, Ilka Boehm, Veit Roessner, Stefan Ehrlich, Technische Universität Dresden, Dresden, Germany, Dresden, Germany
- MT378 Altered structure-function coupling along with principal gradients in major depressive disorder**
Xinyi Wang, Lingling Hua, Li Xue, Zhijian Yao, Qing Lu, Research center Juelich, Juelich, Germany
- MT379 White Matter and the Two Factor Model of Negative Symptoms of Schizophrenia**
Jesse Edmond, Dawn Jensen, Vince Calhoun, Theo van Erp, Jessica A. Turner, Georgia State University, Marietta, United States

- MT380*** **Coordinated Cortical Thickness Alterations in Psychiatric Conditions: a Transdiagnostic ENIGMA Study**
Meike Hettwer, Sara Larivière, Bo-yong Park, Odile van den Heuvel, Lianne Schmaal, Ole Andreassen, Christopher Ching, Martine Hoogman, Jan Buitelaar, Dick Veltman, Dan Stein, Barbara Franke, Theo van Erp, Neda Jahanshad, Paul Thompson, Sophia Thomopoulos, Richard Bethlehem, Simon Eickhoff, Boris Bernhardt, Sofie Valk, Institute of Systems Neuroscience, Medical Faculty, Heinrich Heine University Düsseldorf, Düsseldorf, Düsseldorf, Germany
- MT381** **WM differences between psychosis and clinical high-risk after correction of negative eigenvalues**
Nora Penzel, Kang Ik Cho, Fan Zhang, Theresa Lichtenstein, Marlene Rosen, Thorsten Lichtenstein, Stephan Ruhrmann, Joseph Kambeitz, Ofer Pasternak, *NP and KC contributed equally, *OP and JK contributed equally, LMU University Munich, Bari, Italy
- MT382** **Schizophrenia influences response of the theory of mind network to socially awkward events**
Emily Przysinda, Bridget Shovestul, Abhishek Saxena, Stephanie Reda, Emily Dudek, J. Steven Lambert, Edmund Lalor, David Dodell-Feder, University of Rochester, Rochester, United States
- MT383** **Neural Basis of Social Comparison in Depression and Social Anxiety: an fMRI study**
Victoria Gradin, Alejo Acuña, Sebastián Morales, Laura Uriarte, Nara Aguirre, Antonella Brandani, Alfonso Perez, Enrique Cuña, Gordon Waiter, Alvaro Cabana, Margarita García-Fontes, Universidad de la República, Montevideo, Uruguay
- MT384** **Neurocognitive effects of longer-term methylphenidate use on inhibitory function in boys with ADHD**
Olivia Kowalczyk, Marion Criaud, Sheut-Ling Lam, Steve Lukito, Samuel Westwood, Analucia Alegria, Owen O'Daly, Mitul Mehta, Katya Rubia, King's College London, London, United Kingdom
- MT385** **Anterior Cingulate to Anterior Insula Hypoconnectivity and Emotional Reactivity in Depression**
Jessica Gilbert, Grace Anderson, Courtney Burton, Elizabeth Ballard, Carlos Zarate, National Institute of Mental Health, Bethesda, United States
- MT386** **Disordered Network Repertoires in Schizophrenia during Learning: Graph Theoretic Applications**
Emmanuel Meram, Shahira Baajour, Asadur Chowdury, Jeffrey Stanley, Vaibhav Diwadkar, Wayne State University, Sterling Heights, United States
- MT387** **Structural covariance differences in cannabis dependence and adolescent problematic cannabis use**
Jonatan Ottino, Zhipeng Cao, Renata Cupertino, Devarshi Pancholi, Matthew Albaugh, Patricia Conrod, Scott Mackey, Hugh Garavan, University of Vermont, Burlington, United States
- MT388** **Hallucination Severity in First-Episode Psychosis and STG-Thalamic Functional Connectivity in fMRI**
Amritha Harikumar, Kyle Jensen, Zening Fu, Brian Coffman, Julia Longenecker, Vince Calhoun, Jessica Turner, Dean Salisbury, Georgia State University, Atlanta, United States
- MT389** **Deep Dynamic Effective Connectivity Estimation from Multivariate Time Series**
Usman Mahmood, Zening Fu, Vince Calhoun, Sergey Plis, Georgia State University, Atlanta, United States
- MT390** **A Novel fMRI Task for Study of Individuals Addicted to Nicotine and Alcohol**
William Hoffman, Holly McCready, Laura Dennis, Meghan Oswald, Milky Kohno, Portland VA Health Care System, Portland, United States
- MT391** **Brain dynamics via Cumulative Auto-Regressive Self-Attention**
Usman Mahmood, Zening Fu, Vince Calhoun, Sergey Plis, Georgia State University, Atlanta, United States
- MT392** **Aberrant hierarchical prediction errors in early psychosis during a mismatch negativity paradigm**
Daniel Hauke, Colleen Charlton, André Schmidt, John Griffiths, Volker Roth, Andreea Diaconescu, Daniel Mathalon, University of Basel, Basel, Switzerland
- MT393** **Oral ketamine shifts brain states in patients with chronic suicidality**
Zack Shan, Adam Can, Abdalla Mohamed, Megan Dutton, Daniel Hermens, Jim Lagopoulos, University of the Sunshine Coast, Sunshine Coast, Australia
- MT394** **Acute Alcohol-Induced Changes in Functional Connectivity Are Linked to Impulsivity and Consequences**
Angelica Morales, Sydney Gilbert, Elijah Hart, Suzanne Mitchell, Bonnie Nagel, Oregon Health & Science University, Portland, United States
- MT395** **Linking MRI-derived Brain Phenotypes with Polygenic Risk for Schizophrenia: A Systematic Review**
Hadis Jameei, Divyangana Rakesh, Andrew Zalesky, Maria Di Biase, University of Melbourne, Carlton, Australia
- MT396** **Increased dynamic functional network reconfiguration with frequent antidepressant use**
Tommy Broeders, Tinka Louter, Felix Linsen, Jeroen Geurts, Brenda Penninx, Menno Schoonheim, Christiaan Vinkers, Amsterdam UMC, location VUmc, Amsterdam, Netherlands
- MT397** **Shape descriptors enhance whole-brain analysis of morphometric features in Limbic Encephalitis**
Antonia Harms, Tobias Bauer, Kersten Diers, Leon Ernst, Bernd Weber, Alexander Radbruch, Albert Becker, Christian Elger, Martin Reuter, Rainer Surges, Theodor Rüber, University Hospital Bonn, Bonn, Germany
- MT398** **Modeling longitudinal changes in cortical thickness to assess heterogeneity in chronic schizophrenia**
Noemi González Lois, Pedro Gordaliza, Covadonga Diaz-Caneja, Alberto Fernández-Pena, Elizabeth Buimer, Neeltje van Haren, Wiepke Cahn, Celso Arango, René Kahn, Hilleke Hulshoff Pol, Hugo Schnack, Joost Janssen, Instituto de Investigación Sanitaria Gregorio Marañón, Madrid, Spain
- MT399** **The association of vascular cell adhesion molecule-1 with grey matter volume in depression**
Rui Liu, Jingjing Zhou, Jia Zhou, Yuan Zhou, Jian Yang, Gang Wang, Beijing Anding Hospital, Beijing, China
- MT400** **Should there be a separate diagnostic label for Problematic Internet Use?**
Ting-Yat Wong, Alex Wang-on Li, Benjamin Meyer, Simon Dymond, Ruben Gur, Kenneth Yuen, University of Hong Kong, Hong Kong, Hong Kong
- MT401** **Broca's region in schizophrenia revisited: asymmetry, cytoarchitecture, genetics**
Saskia Zimmermann, Katrin Sakreida, Timm B. Poepl, Thomas Frodl, Michael Landgrebe, Berthold Langguth, Daniela Mirlach, Sebastian Bludau, Thomas Mühleisen, RWTH Aachen University, Aachen, Germany

- MT402 Basal forebrain cholinergic nuclei alterations across the schizophrenia spectrum**
Julia Schulz, Felix Brandl, Michel Grothe, Matthias Kirschner, Stefan Kaiser, André Schmidt, Stefan Borgwardt, Christian Sorg, Avram Mihai, Technical University of Munich, Munich, Germany
- MT403 Resting-state rostral anterior cingulate cortex effective connectivity in major depressive disorder**
Alec Jamieson, Ben Harrison, Adeel Razi, Christopher Davey, University of Melbourne, Carlton, Australia
- MT404 Altered intrinsic connectivity in fronto-limbic networks after rt-fMRI neurofeedback in PTSD**
Jana Zweerings, Micha Keller, Mikhail Zvyagintsev, Klaus Mathiak, RWTH Aachen University, Aachen, Germany
- MT405 Investigating brain-cognition associations in Bipolar Disorder using Canonical Correlation Analysis**
Bethany Little, Peter Gallagher, David Cousins, Yujang Wang, Newcastle University, Newcastle upon Tyne, United Kingdom
- MT406 Altered dynamic reconfiguration of functional brain networks in nicotine use disorder**
Min Wang, Rujing Zha, Yuqi Kang, Xiaosong He, Xiaochu Zhang, University of Science and Technology of China, Hefei, China
- MT407 Decoded neurofeedback with real-time fMRI: A pilot study of emotion regulation processes**
Pamela Pindi, Camille Piguet, Josselin Houenou, Pauline Favre, INSERM, Gif-sur-Yvette, France
- MT408 Reward processing in adolescents with social phobia and depression**
Christina Luckhardt, Andreas Mühlherr, Magdalena Schütz, Heike Alther, Tomasz Jarczok, Stefanie Jungmann, Vanessa Howland, Lisa Krömer, Christine M. Freitag, Goethe University, Frankfurt, Germany
- MT409 Shared genetic architecture between bipolar disorder and cortical brain structure**
Weiqiu Cheng, Nadine Parker, Kevin O'Connell, Dennis van der Meer, Christopher Ching, Guy Hindley, Alexey Shadrin, Shahram Bahrami, Aihua Lin, Naz Karadag, Børge Holen, Chun-Chieh Fan, Lars Westlye, Paul Thompson, Anders Dale, Srdjan Djurovic, Oleksandr Frei, Olav Smeland, Ole Andreassen, University of Oslo, OSLO, Norway
- MT410 Phenotypic similarity of the effects of metabolic illness and Major Depressive Disorder on the brain**
Kathryn Hatch, Alessandro Russo, Si Gao, Yizhou Ma, Elliot Hong, Peter Kochunov, Maryland Psychiatric Research Center, Catonsville, United States
- MT411 Brain correlates of altered sentence processing in schizophrenia**
Maria Angeles Garcia Leon, Paola Fuentes-Claramonte, Joan Soler-Vidal, Pilar Salgado-Pineda, Nuria Ramiro, Llanos-Torres María, Antonio Arevalo, Amalia Guerrero-Pedraza, Ana Aquino, Sandra Fernández-Nuñez, Lucila Barbosa, Josep Munuera, Salvador Sarró, Raymond Salvador, Wolfram Hinzen, Peter McKenna, Edith Pomarol-Clotet, FIDMAG Research Foundation, Barcelona, Spain
- MT412 Early Brain Micro-structure Changes of Schizophrenia Based on Multi-shell Diffusion Imaging**
Qiuping Ding, Bin Gao, Qiqi Tong, Min Feng, Jinyuan Wang, Hongjian He, Ling Xia, Jianhui Zhong, Zhejiang University, Hangzhou, China
- MT413 Sex differences in social anxiety: Neural temporal dynamics of acceptance emotion regulation**
Ludovica Musso, Matthew Thurston, Annika Konrad, Lara Maliske, Katharina Foerster, Philipp Kanske, Philippe Goldin, James Gross, Technische Universität Dresden, Dresden, Germany
- MT414 Neural correlates of acute psychosocial stress in individuals with alcohol use disorder**
Sarah Gerhardt, Maibritt Horning, Falk Kiefer, Sabine Vollstädt-Klein, CIMH, Mannheim, Germany
- MT415 Chronic variable stress induces sex-specific depressive-like behavioral and brain changes in mice**
Lizette Herrera Portillo, Daniel Gallino, Maryia Bairachnaya, Bruno Giros, Rosemary Bagot, Mallar Chakravarty, McGill University, Montreal, Canada
- MT416 Peripartum depression influences the ACC-dmPFC axis: a meta-analysis**
Raquel Guiomar, Manya Rezaeian, Mónica Sobral, Francisca Pacheco, Vera Mateus, Roser Palau-Costafreda, Johanna Pozo-Neira, Ana Weidenauer, Martin Tik, Helena Moreira, Ana Ganho, Anna-Lisa Schuler, University of Coimbra, Coimbra, Portugal
- MT417 Depression and Brain Structure across Adult Lifespan: A Meta-analysis in the Lifebrain Consortium**
Julia Binnewies, Laura Nawijn, Brenda Penninx, Amsterdam UMC, location VUmc, Amsterdam, Netherlands
- MT418 Cortico-thalamic structural co-variation as a function of risk for schizophrenia**
Annalisa Lella, Linda Antonucci, Biancamaria Di Bello, Leonardo Fazio, Roberta Passiatore, Giuseppe Blasi, Sangiuliano Marina, Pierluigi Selvaggi, Leonardo Sportelli, Antonio Rampino, Alessandro Bertolino, Giulio Pergola, University of Bari, Bari, Italy
- MT419 EEG microstates as novel functional biomarkers for adult attention-deficit hyperactivity disorder**
Victor Férat, Martijn Arns, Marie-Pierre Deiber, Roland Hasler, Nader Perroud, Christoph Michel, Tomas Ros, University of Geneva, Geneva, Switzerland
- MT420 Linking metabolite levels in the dorsal anterior cingulate cortex to response inhibition in OCD**
Niels de Joode, Anders Thorsen, Chris Vriend, Petra Pouwels, Kristen Hagen, Bjarne Hansen, Gerd Kvale, Odile van den Heuvel, Amsterdam UMC, Location VUMC, Amsterdam, Netherlands
- MT421 Reconfiguration of striatal connectivity profiles in smokers**
Cole Korponay, Elliot Stein, Thomas Ross, McLean hospital, Medfield, United States
- MT422 Brain structure, pubertal timing and depression risk in early adolescence (the ABCD Study)**
Niamh MacSweeney, Xueyi Shen, Stella Chan, Breda Cullen, Rebecca Reynolds, Sophia Frangou, Alex Kwong, Stephen Lawrie, Liana Romaniuk, Heather Whalley, University of Edinburgh, Edinburgh, United Kingdom
- MT423 Multi network InfoMax: A pre-training method involving graph convolutional networks**
Usman Mahmood, Zening Fu, Vince Calhoun, Sergey Plis, Georgia State University, Atlanta, United States
- MT424 Brain Connectivity Associations with Negative Symptom Domains in Schizophrenia**
Alie Male, Stephanie Hare, Bhim Adhikari, Jesse Edmond, Elena Pozzi, Yara Toenders, Lea Waller, Rajendra Morey, Lianne Schmaal, Kelvin Lim, Bryon Mueller, Adrian Preda, Daniel Mathalon, Judith Ford, Steven Potkin, Peter Kochunov, Elliot Hong, Gregory Strauss, Anthony Ahmed, Paul Thompson, Vince Calhoun, Jessica Turner, Theo van Erp, University of California Irvine, Irvine, United States

- MT425 Polygenic risk for depression moderates association between amygdala connectivity and internalizing**
Elina Thomas, Matthew Albaugh, Anthony Juliano, Max Owens, Renata Cupertino, Scott Mackey, Robert Hermsillo, Oscar Miranda-Dominguez, Greg Conan, Damien Fair, Alice Graham, Alexandra Potter, Hugh Garavan, University of Vermont, Burlington, United States
- MT426 Sex Moderates the Relationship between Functional Connectivity and Remission in Late-life Depression**
Andrew Gerlach, James Wilson, Helmet Karim, Howard Aizenstein, Carmen Andreescu, University of Pittsburgh, Pittsburgh, United States
- MT427 Diffusion MRI Brain Network Correlates of Suicidal Ideation in Adolescents**
Daniel Thompson, Benjamin Snipes, Angela Jakary, Tony Yang, Olga Tymofiyeva, University of California, San Francisco, San Francisco, United States
- MT428 Beyond Broadband: Spectral Microstate Signatures Classifying Post-Traumatic Stress Disorder (PTSD)**
Braeden Terpou, Saurabh Shaw, Margaret McKinnon, Ruth Lanius, Christoph Michel, Tomas Ros, McMaster University, London, Canada
- MT429 Identification of psychiatric disorders and subtypes using deep learning in EEG**
Weizheng Yan, Leilei Zheng, Jing Sui, Zheng Lin, Vince Calhoun, Tri-Institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, United States
- MT430 Mapping Cortical Heterogeneity in First-Episode Psychosis**
Amanda Worker, Andrew Lawrence, Pierre Berthert, Thomas Wolfers, Richard Dinga, Seyed Mostafa Kia, Paola Dazzan, Andre Marquand, King's College London, London, United Kingdom
- MT431 Mapping Frontal Corticostriatal Circuits in ADHD, Sex, Age, and Inhibitory Control**
Aki Nikolaidis, Xiaoning He, James Pekar, Keri Rosch, Stewart Mostofsky, Child Mind Institute, New York, United States
- MT432 Importance of Joint Phenotypic and Biological Reliability for Biomarker Discovery**
Aki Nikolaidis, Andrew Chen, Xiaoning He, Ting Xu, Joshua Vogelstein, Russell Shinohara, Michael Milham, Haochang Shou, Child Mind Institute, New York, United States
- MT433 Multimodal MRI Data Fusion-Based RDoC Brain-Behavior Mappings in Cannabis Use Disorder**
Ethan Lee, Poornima Kumar, Lisa Nickerson, Harvard University, South Kingstown, United States
- MT434 Anterior Default Mode Network Connectivity is Predictive of Antidepressant Response to Ketamine**
Benjamin Wade, Joana Loureiro, Ashish Sahib, Antoni Kubicki, Shantanu Joshi, Gerhard Hellmann, Randall Espinoza, Roger Woods, Katherine Narr, UCLA, Los Angeles, United States
- MT435 Failed network profile separation between successive covert and active task states in Schizophrenia**
Asadur Chowdury, Jeffrey Stanley, Vaibhav Diwadkar, Wayne State University, Detroit, United States
- MT436* Polygenic risk for major depressive disorder alters early adolescent white matter development**
Sin Kim, Jaeseung Jeong, Korea Advanced Institute of Science and Technology, Yuseong-gu, Korea, Republic of
- MT437 Distinct Amygdala Nuclei Relationships with Ghrelin and Cortisol in Restrictive Eating Disorders**
Lauren Breithaupt, Felicia Petterway, Clara Sailer, Yaen Chen, Macy Turley, Kendra Becker, Jennifer Thomas, Franziska Plessow, Madhusmita Misra, Elizabeth Lawson, Kamryn Eddy, Laura Holsen, Amanda Lyall, Harvard Medical School, Boston, United States
- MT438 Neural Correlates of Mentalizing Altered in Cocaine Use Disorder**
Amnah Eltahir, Tien Tong, Vyoma Sahani, Yasmin Hurd, Keren Bachi, Icahn School of Medicine at Mount Sinai, New York, United States
- MT439 Exploring white matter in treatment-resistant depression using diffusion MRI and free-water imaging**
Katie Vandelloo, Patricia Burhunduli, Sylvain Bouix, Kevin Cho, Kimia Owsia, Pierre Blier, Jennifer Phillips, University of Toronto, Toronto, Canada
- MT440 Electroencephalography measures of scopolamine's potential antidepressant effects**
Joseph Chen, Rachael Sumner, Venkat Krishnamurthy Naga, Nicholas Hoeh, Hafis Adetokunbo Ayeni, Vikrant Singh, Andrew Wilson, Douglas Campbell, Frederick Sundram, Suresh Muthukumaraswamy, University of Auckland, Auckland, New Zealand
- MT441 Changes in Neural Processing After Multimodal Speech-Gesture Training in Patients With Schizophrenia**
Lydia Riedl, Arne Nagels, Gebhard Sammer, Momoko Choudhury, Annika Nonnenmann, Anne Sütterlin, Chiara Feise, Maxi Haslach, Florian Bitsch, Hildegard Kühne, Thomas Hartmann, Nina Shvetsova, Benjamin Straube, Philipps-University, Marburg, Germany
- MT442 Brain age in high risk psychosis and clinical psychosis groups**
Sang Soo Cho, Sun-Young Moon, Taekwan Kim, Minji Ha, Soojin An, Woori Choi, Ahra Kim, Sunah Choi, Won Lee, Junhee Lee, Minah Kim, Jun Soo Kwon, Seoul national university, seoul, Korea, Republic of
- MT443 Longitudinal : Effects of Dosage and Anticholinergic Burden of Antipsychotics on Hippocampal Volume**
Agnes Belkacem, Katie Lavigne, Carolina Makowski, Mallar Chakravarty, Ridha Joobar, Ashok Malla, Jai Shah, Martin Lepage, McGill, Montreal, Canada
- MT444 Investigation Structural and Functional Predictivity of Schizophrenia with Deep Learning Methodology**
Noah Lewis, Debbrata Kumar Saha, Eduardo Marin, Jiafeng Song, Sergey Plis, Eva Dyer, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States
- MT445 Brain functional subnetworks correlated with clinical symptoms in patients with schizophrenia**
Yayuan Chen, Meng Liang, Tianjin Medical University, Tianjin, China
- MT446* Disorder-specific and Cross-disorder Brain Morphological Abnormalities across Four Mental Disorders**
Xiaochen Zhang, Lijuan Jiang, Daihui Peng, Jianhua Sheng, Zhen Wang, Jijun Wang, Yiru Fang, Chunbo Li, Zhi Yang, Shanghai Mental Health Center, Shanghai, China
- MT447 Disruption of the temporal dynamic of the 40-Hz auditory steady-state responses in schizophrenia**
Mónica Otero, Pavel Prado-Gutierrez, Álvaro Cavieres, Lucía Z Rivera, Agustín Ibáñez, Matías Zañartu, Sonja Kotz, Wael El-Deredy, Universidad de Valparaíso, Chile, Viña del Mar, Chile

MT448 Cerebral structural changes in patients with Functional Seizures
 Nilab Nasrullah, Wesley Kerr, Hiroyuki Tatekama, John Stern, dawn eliashev, Noriko Salomon, Jerome Engel Jr, Ivanka Savic, Karolinska, Stockholm, Sweden

EMOTION, MOTIVATION AND SOCIAL NEUROSCIENCE

Emotional Learning

MT467 Bottom-Up and Top-Down Processes Analysis in Dynamic Emotion Processing Based on EEG-MRI Signals

Kai Yang, Rongkai Zhang, Ying Zeng, Li Tong, Bin Yan, Guoen Hu, Information Engineering University, Zhengzhou, China

MT468 Neural mechanisms underlying the recall of a fear extinction memory in different contexts
 Laura de Nooij, Noa Deckers, Lana Miedema, Lisa Wirz, Gert-Jan Hendriks, Robbert-Jan Verkes, Benno Roozendaal, Erno Hermans, Radboud university medical center, Nijmegen, Netherlands

MT469 Real-Time fMRI based Naturalistic Adaptive Neurofeedback for Self-Regulation of Amygdala Activity

Apurva Watve, Amelie Haugg, Yury Koush, David Willinger, Annette Brühl, Philipp Stämpfli, Frank Scharnowski, Ronald Sladky, University of Zurich, Zurich, Switzerland

Emotional Perception

MT470 The effect of stress on the behavioral and neural positivity effect in late-life depression
 Chih-Hao Lien, Maarten Laroy, Thomas Vande Castele, Margot Van Cauwenberge, Louise Emsell, Kristof Vansteelandt, Koen Van Laere, Stefan Sunaert, Filip Bouckaert, Mathieu Vandenbulcke, Jan Van den Stock, KU Leuven, Leuven, Belgium

MT471 Social brain function underlying emotional prosody predicts social impairment in children with ASD
 Simon Leipold, Daniel Abrams, Shelby Karraker, Vinod Menon, Stanford University, Stanford, United States

MT472 Common and distinct neural substrates of core and social disgust: Coordinate-based meta-analyses
 Xianyang Gan, Xinqi Zhou, Jialin Li, Guojuan Jiao, Xi Jiang, Bharat Biswal, Shuxia Yao, Benjamin Klugah-Brown, Benjamin Becker, University of Electronic Science and Technology of China, Chengdu, China

MT473 The Neural Mechanism of the Relationship between Loneliness and Facial Disgust Recognition
 Denilson Brilliant T., Teruo Hashimoto, Noriki Yamaya, Ryuta Kawashima, Tohoku University, Sendai, Japan

MT474 Engaging and disengaging from sad emotions during movie watching: an idiosyncratic fMRI study
 Melanni Nanni Zepeda, Joseph DeGutis, David Rothlein, Charley Wu, Simone Grimm, Martin Walter, Michael Esterman, Agnieszka Zuberer, University of Jena, Jena, Germany

MT475 Neural markers of occupational wellbeing in the UK Biobank: how do hours worked affect task fMRI?
 Christina Kampourelis, Chris Racey, Raul Ungureanu, Jamie Ward, Charlotte Rae, University of Sussex, Brighton, United Kingdom

MT476 Neural correlates of positive hysteresis in emotion recognition
 Miguel Castelo-Branco, Andreia Verdade, Teresa Sousa, Joao Castelhana, CIBIT, ICNAS, Faculty of Medicine, U. Coimbra, Coimbra, Portugal

MT477 Biomarkers of Emotional Regulation under Psilocybin
 Devon Stoliker, Gary Egan, Franz Vollenweider, Katrin Preller, Leonardo Novelli, Adeel Razi, Turner Institute for Brain and Mental Health, Monash University, Southbank, Australia

MT478 Developing a neurofunctional intervention for emotion regulation under stress
 Maria Picó-Pérez, Sónia Ferreira, Marcos Fernández-Rodríguez, Joana Cabral, Carles Soriano-Mas, Pedro Morgado, Life and Health Sciences Research Institute (ICVS), Braga, Portugal

MT479 White matter integrity of insula tracts is associated with disgust recognition following stroke
 Kai Klepzig, Martin Domin, Julia Wendt, Bettina von Sarnowski, Alfons Hamm, Martin Lotze, Functional Imaging Unit, Diagnostic Radiology, University Medicine Greifswald, Greifswald, Germany

MT480 Emotion and Attention Control effects in Depression: An ALE meta-analysis
 Grace Jumonville, Kimberly Ray, David Schnyer, The University of Texas at Austin, Austin, United States

MT481 Neural correlates of emotional valence for innate and culturally-acquired stimuli
 Eleonora Borelli, Daniela Ballotta, Fausta Lui, Giuseppe Pagnoni, University of Modena & Reggio Emilia, Modena, Italy

MT482 Attenuation of sensory processing and affective responses after implicit induction of self-control
 Miroslaw Wyczesany, Agnieszka Adamczyk, Tomasz Ligeza, Jagiellonian University, Krakow, Poland

MT483 Negative facial expressions induce a late attentional retraction
 Daniela Ballotta, Eleonora Borelli, Fausta Lui, Giuseppe Pagnoni, University of Modena & Reggio Emilia, Modena, Italy

MT484 Movie-induced emotion experiences modulate dynamically-occurring amygdala-CAPs
 Elenor Morgenroth, Laura Vilaclara, Michal Muszynski, Marina Almató Bellavista, Maria Ploumitsakou, Mariane Brodier, Merlin Leuenberger, Patrik Vuilleumier, Dimitri Van De Ville, EPFL, Geneva, Switzerland

MT485 Model Comparison identifies dorsal Anterior Insula as a Core Salience Attribution Region
 Michael Marxen, Johanna Graff, Philipp Riedel, Michael N. Smolka, Technische Universität Dresden, Dresden, Germany

MT486* The representation of affect in vmPFC and pSTG is independent from sensory modality and experience
 Giada Lettieri, Giacomo Handjaras, Elisa Cappello, Francesca Setti, Chiara Frati, Valentina Bruno, Matteo Diano, Andrea Leo, Carla Tinti, Francesca Garbarini, Pietro Pietrini, Emiliano Ricciardi, Luca Cecchetti, University of Louvain, Louvain-la-Neuve, Belgium

MT487 Emotion dynamics are reflected in time-varying patterns of cortical and subcortical brain activation
 Matthew Sachs, Kevin Ochsner, Christopher Baldassano, Columbia University, New York, United States

MT488 The effect of oxytocin on the behavioral and neural sensitivity to emotional faces in neurotypicals
Stephanie Van der Donck, Matthijs Moerkerke, Tereza Dlhosova, Sofie Vettori, Milena Dzhelyova, Kaat Alaerts, Bart Boets, KU Leuven, Leuven, Belgium

MT489 The effect of modafinil and bupropion to cerebral response to vocal affective processing
Michihiko Koeda, Nippon Medical School Tama-Nagayama Hospital, Tama-shi, Japan

MT490 Spatio-temporal dynamics of regulating fear responses to evolutionary versus modern threats
Agnieszka Adamczyk, Jacobien van Peer, Mirosław Wyczesany, Jagiellonian University, Krakow, Poland

Reward and Punishment

MT491 Dissociation of the Left and Right Anterior Insula in Switching Function
Yasunori Kotani, Yoshimi Ohgami, Nobukiyo Yoshida, Hiroyuki Akai, Akira Kunitatsu, Shigeru Kiryu, Yusuke Inoue, Tokyo Institute of Technology, Tokyo, Japan

MT492 Angiotensin blocker losartan modulates learning from negative outcome: A randomized controlled fMRI
Ting Xu, Zhou Xinqi, Lan Wang, Zhiyi Chen, Guojuan Jiao, Zhou Feng, Weihua Zhao, Shuxia Yao, Benjamin Becker, University of Electronic and Science Technology of China, Chengdu, China

MT493 BMI and Gender effects on association between BMI and resting state functional connectivity
Seonggyu Kim, Eui Park, Sung Ahn, Jong Lee, Hanyang, Seoul, Korea, Republic of

MT494 Can Cue-Reactivity predict Treatment Success in Psilocybin-assisted Therapy in Alcohol Addiction?
Nathalie Rieser, Franz Vollenweider, Marcus Herdener, Katrin Preller, University of Zurich, Zurich, Switzerland

MT495 A single dose of escitalopram blunts the neural response in the ventral striatum
Karsten Mueller, Carolin Lewis, Rachel Zsido, Janis Reinelt, Arno Villringer, Julia Sacher, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

MT496 Temporal Characterization of the Neural Signatures of Appetitive versus Aversive Learning
Sean Westwood, Alessandro Vinciarelli, Marios Philiastides, University of Glasgow, Glasgow, United Kingdom

MT497 The role of dopamine in anticipatory and consummatory food reward
Danielle Jongen, Nathalie Weltens, Patrick Dupont, Jenny Ceccarini, Koen Van Laere, Elske Vrieze, Lukas van Oudenhove, KU Leuven, Leuven, Belgium

MT498 An fMRI Task to Probe Reward Prediction Errors in Adolescents with Psychiatric Symptoms
Benjamin Ely, Tram Nguyen, John Keefe, Sherry Simkovic, Emily Stern, Vilma Gabbay, Albert Einstein College of Medicine, New York, United States

Self Processes

MT499 Large-scale brain organisation of interoception
H. Lina Schaare, Jessica Royer, Lukas Rucker, Boris Bernhardt, Sofie L. Valk, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

MT500 Trans Identity Impacts Neural Correlates of Self-Other Referential Processing
Carolin Lewis, Karsten Mueller, Jonas Hornung, Elke Smith, Jessica Junger, Katharina Pauly, Ute Habel, Birgit Derntl, Tübingen Center for Mental Health (TüCMH), University of Tübingen, Tübingen, Germany

MT501 Cross-Referenced Analysis of fMRI and MEG Data in a Self-Reference Judgement Task
Martin Fungisai Gerchen, Emily Bruns, Immanuel Scholz, Peter Kirsch, Central Institute of Mental Health, Mannheim, Germany

MT502 Neurobiological principles of human affect: a multi-categorical common system
Doğa Gündem, Jure Potočnik, François-Laurent De Winter, Daphne Stam, Ronald Peeters, Louise Emsell, Stefan Sunaert, Lukas Van Oudenhove, Mathieu Vandenbulcke, Lisa Feldman Barrett, Jan Van den Stock, KU Leuven, Leuven, Belgium

MT503 Self-judgment modulates memory resources in breast cancer patients: a longitudinal fMRI study
Gina Joue, Joy Perrier, Nastassja Morel, Malo Gaubert, Fanny Dégeilh, Nicolas Villain, Jacques Dayan, Djellila Allouache, Sabine Noal, Christelle Levy, Florence Joly, Gaël Chételat, Francis Eustache, Bénédicte Giffard, Normandie Université Caen, Caen, France

MT504 Adolescents' self-concept is associated with functional connectivity in the anterior cingulate
Isaac Ip, Fiona Ching, H. T. Chiu, Y. L. Chan, Savio Wong, The Chinese University of Hong Kong, Hong Kong, Hong Kong

Sexual Behavior

MT505 Reduced Grey Matter Volume Reveals Risky Sexual Behavior in Adolescents: A Machine Learning Approach
Sahil Bajaj, Patrick Tyler, Karina Blair, Matthew Dobbertin, Johannah Bashford-Largo, Avantika Mathur, Ru Zhang, Nida Majeed, Jaimie Elowsky, Ahria Dominguez, James Blair, Boys Town National Research Hospital, Boys Town, United States

MT506 Robust and Interpretable Deep Learning Methods for Discovering Biological Sex Differences
Noah Lewis, Robyn Miller, Sergey Plis, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States

Social Cognition

MT507 The Role of the Posterior Cerebellum in Dysfunctional Social Sequencing
Frank Van Overwalle, Chris Baeken, Kris Baetens, Vrije Universiteit Brussel, Lochristi, Belgium

MT508 Neural correlates for other's equity concern modulating response to distribution in ultimatum game
Saki Asano, Akitoshi Ogawa, Reia Tochigi, Masaki Tanaka, Takahiro Osada, Koji Kamagata, Shigeki Aoki, Seiki Konishi, Juntendo University, Tokyo, Japan

MT509 Age-related differences in brain network functional connectivity related to loneliness and empathy
Laetitia Mwilambwe-Tshilobo, Roni Setton, Danilo Bzdok, Gary Turner, Nathan Spreng, McGill University, Montreal, Canada

MT510 Individual variability in neural event segmentation reflects stimulus content and interpretation
Clara Sava-Segal, Emily Finn, Dartmouth College, Hanover, United States

- MT511** **Neural processing of benevolent, tickling and taunting laughter in disruptive behavior disorders**
Anne Martinelli, Benjamin Kreifelts, Anka Bernhard, Katharina Ackermann, Christine Freitag, Dirk Wildgruber, Fresenius University of Applied Sciences, Frankfurt am Main, Germany
- MT512** **A paleo-neurologic investigation of the social brain hypothesis in frontotemporal dementia**
Jan Van den Stock, Laura Van de Vliet, Jiaze Sun, Yun-An Huang, Maarten Van Den Bossche, Stefan Sunaert, Ronald Peeters, Qi Zhu, Wim Vanduffel, Beatrice de Gelder, François-Laurent De Winter, Mathieu Vandenbulcke, KU Leuven, Leuven, Belgium
- MT513** **Functional Connectivity Architecture of Social Cognition in Schizophrenia and Early Psychosis**
Saige Rutherford, Tristan Greathouse, Stephan Taylor, Ivy Tso, Donders Institute, Radboud University Medical Center, Nijmegen, Netherlands
- MT514*** **Selectively altering love related-belief in the human brain improves romantic relationships**
Hongwen Song, Lin Zuo, Xiaochu Zhang, University of Science and Technology of China, Hefei, China
- MT515** **Online comments on social media influence personal opinions about news headlines**
Federica Nisini, Jan Weis, Wouter van den Bos, Johannes Schultz, Universität Bonn, Bonn, Germany
- MT516** **The Role of the Ventrolateral Anterior Temporal Lobes in Social Cognition**
Eva Balgova, Veronica Diveica, Jon Walbrin, Richard Binney, Bangor University, Bangor, United Kingdom
- MT517** **Toward structuring the Theory of Mind: an fMRI study**
Karolina Golec, Agnieszka Pluta, Jakub Wojciechowski, Tomasz Wolak, Maciej Haman, Joanna Wysocka, Faculty of Psychology, University of Warsaw, Warsaw, Poland
- MT518** **Resting Functional Connectivity of the Ventral Salience Subsystem Relates to Emotional Granularity**
Teodora Stoica, Matt Grilli, Eric Andrews, Hannah Burns, Ramsey Wilcox, Jessica Andrews-Hanna, University of Arizona, Tucson, United States
- MT519** **Social cognition and functional connectivity: Multivariate links across the schizophrenia spectrum**
Lindsay Oliver, Colin Hawco, Navona Calarco, Ju-Chi Yu, Iska Moxon-Emre, Vinh Tan, James Gold, George Foussias, Pamela DeRosse, Miklos Argyelan, Robert Buchanan, Anil Malhotra, Aristotle Voineskos, Centre for Addiction and Mental Health, Burlington, Canada
- MT520** **Functional organization of face-responsive regions in lateral prefrontal cortex**
Mojan Izadkhah, Asa Farahani, Elahé Yargholi, Gholam-Ali Hossein-Zadeh, Reza Rajimehr, Sharif University of Technology, Tehran, Iran, Islamic Republic of
- MT521** **Separable brain patterns for socio-emotional input and inference**
Marianne Reddan, Desmond Ong, Isabella Kahhale, Alison Mattek, Tor Wager, Jamil Zaki, Stanford University, San Francisco, United States
- MT522** **A Study on Brain Activation Areas Related to Acute Stress and Changes in Stress Level**
Mi-Hyun Choi, Konkuk university, Chungju-si, Korea, Republic of
- MT523** **Neural Compensation in Manifest Neurodegeneration: Evidence from Social Cognition in FTD**
Jiaze Sun, François-Laurent De Winter, Fiona Kumfor, Kristof Vansteelandt, Ronald Peeters, Stefan Sunaert, Mathieu Vandenbulcke, Jan Van den Stock, KU Leuven, Leuven, Belgium
- MT524** **Neural mapping of uncertainty and accuracy during mindreading in the aging social brain**
Marine Le Petit, Pierre Gagnepain, Francis Eustache, Vincent de La Sayette, Béatrice Desgranges, Mickaël Laisney, Université de Caen Normandie, Caen, France
- MT525** **The sense of joint agency and inter-brain synchronization during a cooperative joint action**
Nanami Sera, Sotaro Shimada, Meiji University, Yokohama, Japan
- MT526** **Precision mapping of default network (inter)activity during self-generated thought**
Colleen Hughes, Roni Setton, Giulia Baracchini, Laetitia Mwilambwe-Tshilobo, Gary Turner, Nathan Spreng, Montreal Neurological Institute, Montreal, Canada
- MT527** **Representations of empathy for pain using a similarity analysis within the cortical gradient model**
Karin Labek, Elisa Sittenberger, Valerie Kienhöfer, Luna Rabl, Irene Messina, Julia Stingl, Matthias Schurz, Roberto Viviani, University of Innsbruck, Innsbruck, Austria
- MT528** **Seeing social: A neural pathway for conscious social perception**
Rekha Varrier, Emily Finn, Dartmouth College, Lebanon, United States
- MT529*** **Parallel systems for social and spatial reasoning within the cortical apex**
Ben Deen, Winrich Freiwald, The Rockefeller University, New York, United States
- MT530** **Movie-driven transient brain states in schizophrenia correlate with naturalistic social perception**
Safia Mirza, Daniel Vieira, Nicholas Foley, Gaurav Patel, Vanderbilt University, Nashville, United States
- MT531** **ECoG reveals a common neurocognitive pathway for mentalizing about the self and others**
Kevin Tan, Amy Daitch, Pedro Pinheiro-Chagas, Kieran Fox, Josef Parvizi, Matthew Lieberman, UCLA, Los Angeles, United States

Social Interaction

- MT532** **Activities of Basal Forebrain and Amygdala are Related to Subclinical Social Anxiety**
Xiao Zhu, Hui Zhou, Fengji Geng, Yuzheng Hu, Zhejiang University, Hangzhou, China
- MT533** **Behavioral and neural underpinnings of sibling interactions: an fMRI hyperscanning study**
Lucia Hernandez-Pena, Rik Sijben, Edda Bilek, Julia Koch, Rea Rodriguez-Raecke, Rebecca Waller, Ute Habel, Lisa Wagners, Uniklinik Hospital Aachen, Aachen, Germany
- MT534** **The Power of γ in Rest-state EEG can Predict Reactive Aggression Behaviour after Sleep Deprivation**
Haobo Zhang, Xu Lei, Southwest University, Chongqing, China
- MT535** **The influence of shared attention on subjective emotional experiences during movie viewing**
Junaid Merchant, Sarah Dziura, Deena Shariq, Elizabeth Redcay, University of Maryland, Silver Spring, United States
- MT536** **That did not age well: amygdala-mediated trust learning is impaired in older adults**
Ronald Sladky, Federica Riva, Claus Lamm, University of Vienna, Vienna, Austria
- MT537** **Functional Connectivity Differences and Increased Negative Emotions During a Modified Cyberball Task**
Lisa Wagners, Ann-Kristin Roehr, Benjamin Clemens, Nils Kohn, Ute Habel, Faculty of Medicine, RWTH, Aachen, Germany

- MT538 Verbal Bullying as a Function of Right Hippocampal Volume in Individuals with a History of Trauma**
Hideo Suzuki, Alexa Yunes-Koch, University of Nebraska-Lincoln, Houston, United States
- MT539 The opponent's anonymity influence on the work of Theory of Mind network during the Ultimatum Game**
Alexander Korotkov, Artem Myznikov, Maya Zheltyakova, Irina Knyazeva, Ruslan Masharipov, Mikhail Votinov, Maxim Kireev, N. P. Bechtereva Institute of the Human Brain, Saint-Petersburg, Russian Federation
- MT540 The ventral striatum activation for emotionally congruent response of a virtual agent**
Shuji Yamamoto, Takahiko Koike, Shohei Tsuchimoto, Yasuhiro Asa, Takashi Numata, Norihiro Sadato, Hiroki Sato, Shibaura Institute of Technology, Saitama, Japan

Social Neuroscience Other

- MT541 Neuromodulatory basis of personality trait of Openness to Experience: an MRI structural study**
Emanuele Plini, Ian Robertson, Paul Dockree, Trinity College Institute of Neuroscience, Dublin, Ireland
- MT542 Social-Affective Resting State Connectivity during Start and Termination of Oral Contraceptive Use**
Ann-Christin Kimmig, Patrick Friedrich, Bernhard Drotleff, Michael Lämmerhofer, Inger Sundström-Poromaa, Susanne Weis, Birgit Derntl, University of Tuebingen, Tuebingen, Germany
- MT543 Neural mechanisms of the mood effects on third-party responses to injustice after unfair experiences**
Enhui Xie, Xianchun Li, East China Normal University, Shanghai, China
- MT544 Psychological and neural processes for creating a novel interpersonal symbolic communication system**
Jieqiong Liu, Ruqian Zhang, Enhui Xie, Xianchun Li, East China Normal University, Shanghai, China
- MT545 Genetics of externalizing behavior and structural brain development in adolescence**
Jalmar Teeuw, Marieke Klein, Nina Roth Mota, Rachel Brouwer, Dennis van 't Ent, Zyneb Al-Hassaan, Barbara Franke, Dorret Boomsma, Hilleke Hulshoff Pol, University Medical Center Utrecht (UMCU), Utrecht, Netherlands
- MT546 Sex-Specific Impacts of Stress During Childhood and Adulthood in The Brain: A UK Biobank Study**
Elizabeth McManus, Niall Duncan, Hamied Haroon, Rebecca Elliott, Nils Muhler, The University of Manchester, Bury, United Kingdom
- MT547 Breathing and moving in synchrony to a visual stimulus show different neural activation patterns**
Corinne Jola, Max Korbmacher, Christian Keysers, Frank Pollick, Abertay University Dundee, Dundee, United Kingdom
- MT548 Mapping Genetic Topography of Cortical Thickness and Surface Area in Neonatal Cerebral Cortex**
Ying Huang, Zhengwang Wu, Tengfei Li, Xifeng Wang, Hongtu Zhu, Weili Lin, Li Wang, John Gilmore, Gang Li, University of North Carolina at Chapel Hill, Chapel Hill, United States

- MT549 Modulation of full-body illusion by temporal discrepancy between vision and tactile stimulations**
Katsuki Higo, Sotaro Shimada, Meiji University, Kawasaki, Japan
- MT550 Empathy and resting-state functional connectivity in children**
Katherine Bray, Sarah Whittle, University of Melbourne, Melbourne, Australia
- MT551 Syncing brains: real-time fNIRS-neurofeedback of inter-brain synchrony**
Kathrin Kistorz, Trinh Nguyen, Yafeng Pan, David Steyrl, Filip Melinscak, Yi Hu, Bettina Sorger, Hoehl Stefanie, Frank Scharnowski, University of Vienna, Vienna, Austria
- MT552 The Impact of Minority Stress on the Developing Brains of Gender Diverse Youth**
Hannah Loso, SarahJane Dube, Bader Chaarani, Aya Cheaito, Hugh Garavan, Alexandra Potter, University of Vermont, Burlington, United States
- MT553 Synchronized dual-brain fMRI investigating the patient-clinician relationship in chronic pain**
Arvina Grahl, Alessandra Anzolin, Maya Barton-Zuckerman, Jeungchan Lee, Kylie Isenburg, Dan-Mikael Ellingsen, Changjin Jung, Jessica Gerber, John Kelley, Irving Kirsch, Ted Kaptchuk, Vitaly Napadow, Spaulding Rehabilitation Hospital, Massachusetts General Hospital, Harvard Medical School, Boston, United States
- MT554 Gender incongruence and autistic traits: cerebral and behavioural underpinnings**
Jamie Feusner, Behzad Sorouri Khorashad, Mats Holmberg, Cecilia Dhejne, Ivanka Savic, University of Toronto, Toronto, Canada
- MT555 Functional Connectome Differences in Human-Human versus Human-Agent Interaction**
Juan Carlos Farah, Thierry Chaminade, Denis Gillet, Enrico Amico, École Polytechnique Fédérale de Lausanne, Lausanne, Switzerland
- MT556 A Neuroimaging Meta-Analysis of Emotion Processing Deficits in Youth with Conduct Problems**
Kathryn Berluti, Montana Ploe, Abigail Marsh, Georgetown University, Washington, United States
- MT557 Distinct patterns of functional connectivity differentiate grandiose and vulnerable Narcissism**
Lara Maliske, Emanuel Jauk, Konrad Lehmann, Philipp Kanske, Technische Universität Dresden, Dresden, Germany
- MT558 Investigating the Neural Correlates of Gender Stereotype Threat**
Valerie Ambrosi, Antonia Barghoorn, Anelis Kaiser Trujillo, Albert-Ludwigs-Universität Freiburg, Freiburg im Breisgau, Germany

Emotion and Motivation Other

- MT449 Social Affective States on fMRI of Anticipation and Feedback in Non-Social versus Social Incentives**
Matthew Thurston, Ludovica Musso, Annika Konrad, Lara Maliske, Katharina Foerster, Lauren Erickson, Philipp Kanske, Tiffany Love, TU Dresden, Dresden, Germany
- MT450* Common and selective representation of pain, emotion, and cognitive control in the insula**
Mijin Kwon, Philip Kragel, Lukas Van Oudenhove, Tor Wager, Affective Neuroimaging Collaboratory (ANiC), Dartmouth College, Hanover, United States
- MT451 Neuroanatomical correlates of intrapersonal versus interpersonal comparison**
Wi Hoon Jung, Gachon University, Seongnam-si, Korea, Republic of

- MT452** **Effects of 6-months of exercise on amygdala structure and function in healthy sedentary adults**
Angelika Maurer, Klein Julian, Jannik Claus, Neeraj Upadhyay, Leonie Henschel, Theresa Schörkmaier, Jason Martin, Lukas Scheef, Marcel Daamen, Tony Stöcker, Ulrike Attenberger, Martin Reuter, Henning Boecker, University Hospital Bonn, Bonn, Germany
- MT453** **Heart Rate Variability Covaries with Amygdala Functional Connectivity During Emotion Regulation**
Emma Tupitsa, Ifeoma Egbuniwe, William Lloyd, Marta Puertollano, Michiko Sakaki, Carien van Reekum, University of Reading, Reading, United Kingdom
- MT454** **The influence of feedback on executive dysfunctions in procrastination**
Ewa Wiwatowska, Jarosław Michałowski, SWPS University of Social Sciences and Humanities, Poznań, Poland
- MT455** **Passage-of-Time Dysphoria: Decreasing mood during rest and simple tasks**
Dylan Nielson, David Jangraw, Hanna Keren, Rachel Bedder, Robb Rutledge, Francisco Pereira, Adam Thomas, Daniel Pine, Charles Zheng, Argyris Stringaris, National Institute of Mental Health, Bethesda, United States
- MT456** **Intrinsic brain network connectivity predicts mood variability in substance use disorder**
Carmen Morawetz, Stella Berboth, Valentine Cherokoff, Sandra Chanraud, David Misdrahi, Fuschia Serre, Marc Auriacombe, Melina Fatseas, Joel Swendsen, University of Innsbruck, Innsbruck, Austria
- MT457** **Neural underpinnings of individual differences in emotion regulation**
Carmen Morawetz, Ulrike Basten, University of Innsbruck, Innsbruck, Austria
- MT458** **Resting-state effective connectivity is linked to reappraisal success of negative emotions**
Stella Berboth, Stefan Bode, Carmen Morawetz, University of Innsbruck, Innsbruck, Austria
- MT459** **Propensity of aesthetic chills relates to compression of the principal functional gradient**
Giacomo Bignardi, H. Lina Schaare, Simon Eickhoff, Sofie Valk, Max Planck School of Cognition, Leipzig, Germany
- MT460** **Neural correlates of acute subjective cannabis craving**
Diego Ramírez-González, Enrique Chiu-Han, Canek Llera-Magord, Sarael Alcauter, UNAM, Juriquilla, Mexico
- MT461** **How does the pregnant brain regulate emotions? – An fMRI study**
Melina Grahlow, Elisa Rehbein, Lydia Kogler, Inger Sundström-Poromaa, Birgit Derntl, University Hospital Tübingen, Tübingen, Germany
- MT462** **Altered Neural Associations with Cognitive and Emotional Performance in Cannabis Dependence**
Xinying Wang, Hui Zhou, Yuzheng Hu, Zhejiang University, Hangzhou, China
- MT463** **Retrieval dependent encoding activity underlying rewarded and valence stimuli**
Julie Hall, Danesh Shahnazian, Ruth Krebs, Ghent University, Ghent, Belgium
- MT464** **Cerebellar activity during provocation and retaliatory aggression: A 7T fMRI study**
Elze Wolfs, Wietske Van Der Zwaag, Nikos Priovoulos, Jana Klaus, Dennis Schutter, Utrecht University, Utrecht, Netherlands
- MT465** **Structural Brain Connectivity Correlates of Optimism in Adolescents**
Ca Nguyen, Benjamin Sipes, Angela Jakary, Namasvi Jariwala, Yi Li, Daniel Freimer, Tony Yang, Olga Tymofiyeva, University of California, San Francisco, San Francisco, United States
- MT466** **Mood, Personality, and Default Mode Network Functional Connectivity in Subjective Cognitive Decline**
Linda Mah, Arunan Srikanthanathan, Susan Vander Morris, J. Jean Chen, Nicolaas Verhoeff, Nathan Herrmann, Department of Psychiatry, University of Toronto, TORONTO, Canada

GENETICS

Genetic Association Studies

- MT559** **Effects of APOE and MAPT on Cortical Morphology in A Cohort of Healthy Young Adults**
Weijie Huang, Jianmin Zeng, Ni Shu, Li Su, Beijing Normal University, Beijing, China
- MT560** **Genetic correlates of four deep learning-derived MCI/AD imaging signatures in the general population**
Junhao Wen, Zhijian Yang, Ahmed Abdulkadir, Guray Erus, Elizabeth Mamourian, Yuhan Cui, Ashish Singh, Zhen Zhou, Sindhuja Tirumalai Govindarajan, Gyujoon Hwang, Jimit Doshi, Yong Fan, Andrew Saykin, Marylyn Ritchie, Li Shen, David Wolk, Haochang Shou, Ilya Nasrallah, Christos Davatzikos, University of Pennsylvania, Philadelphia, United States
- MT561** **Polygenic Score for Years of Education is associated with Subcortical Brain Volume in Neonates**
Harriet Cullen, Konstantina Dimitrakopoulou, Hamel Patel, Charles Curtis, Oliver Gale-Grant, Dafnis Batalle, Lucilio Cordero-Grande, Anthony Price, Maximilian Pietsch, Daniel Rueckert, Joseph Hajnal, A David Edwards, King's College London, London, United Kingdom
- MT562** **Schizophrenia polygenic risk scores negatively associated with white matter volumes in term neonates**
Hai Le, Maria Deprez, Jacques-Donald Tournier, A David Edwards, Joseph V. Hajnal, Lucilio Cordero-Grande, Anthony Price, Maximilian Pietsch, Daniel Rueckert, Konstantina Dimitrakopoulou, Hamel Patel, Charles Curtis, Harriet Cullen, King's College London, London, United Kingdom
- MT563** **Autoregressive mixed model for genetic associations with structurally contiguous brain MRI traits**
Qifan Yang, Alyssa Zhu, Kevin Low, Neda Jahanshad, Imaging Genetics Center, University of Southern California, Marina Del Rey, United States
- MT564** **ApoE2 and ApoE4 associations with regional QSM and diffusion MRI in the UK Biobank**
Alyssa Zhu, Talia Nir, Iyad Ba Gari, Daniel Dixon, Tasfiya Islam, Julio Villalon-Reina, Lauren Salminen, Paul Thompson, Neda Jahanshad, University of Southern California, Marina del Rey, United States
- MT565** **Altered Cerebral Curvature in Preterm Infants are Associated with the common genetic variation**
Hyuna Kim, Joo Young Lee, Yong Hun Jang, Young-Eun Kim, Boong Nyun Kim, Hyun Ju Lee, Hanyang University Graduate School of Biomedical Science and Engineering, Seoul, Korea, Republic of
- MT566** **GWAS of resting-state networks: the genetic architecture of functional and structural connectivity**
Elleke Tissing, Josefin Werme, Siemon de Lange, Jeanne Savage, Yongbin Wei, Christiaan de Leeuw, Mats Nagel, Danielle Posthuma, Martijn van den Heuvel, Vrije Universiteit, Amsterdam, Netherlands

- MT567** **Rostral Anterior Cingulate Mediates Relationship Between Genetic Risk for Greater BMI and BMIz**
Anthony Juliano, Renata Cupertino, Jennifer Laurent, Sage Hahn, Max Owens, De Kang Yuan, Jonatan Ottino-González, Alexandra Potter, Nicholas Allgaier, Hugh Garavan, Scott Mackey, University of Vermont College of Medicine, Burlington, United States

Genetic Modeling and Analysis Methods

- MT568** **General dimensions of human brain morphometry inferred from genome-wide association data**
Anna Furtjes, Arathimos Ryan, Jonathan Coleman, James Cole, Simon Cox, Ian Deary, Javier de la Fuente, James Madole, Elliot Tucker-Drob, Stuart Ritchie, King's College London, London, United Kingdom
- MT569** **Individual variation in heritable gene expression and neuroimaging phenotypes**
Nhung Hoang, Yiting Chen, Jee Hyun Park, Neda Sardaripour, Mary Lauren Benton, John Capra, Mikail Rubinov, Vanderbilt University, Nashville, United States

Neurogenetic Syndromes

- MT573** **Oscillatory neural signatures of visual perception across developmental stages in 22q11DS**
Valentina Mancini, Vincent Rochas, Martin Seeber, Tineke Grent-'t-Jong, Tonia Rihs, Caren Latrèche, Peter Uhlhaas, Christoph Michel, Stephan Eliez, University of Geneva, Geneva, Switzerland
- MT574*** **Alterations of the Principal Macroscale Functional Gradient in Carriers of Neuropsychiatric CNVs**
Andréanne Proulx, Clara Moreau, Hao-Ting Wang, Marie-Eve Picard, Carrie Bearden, Pierre Bellec, Sebastien Jacquemont, University of Montreal, Longueuil, Canada
- MT575*** **Parsing the diversity of gene dosage effects on human brain organization**
Elizabeth Levitis, Siyuan Liu, Ethan Whitman, Allysa Warling, Erin Torres, Liv Clasen, Francois Lalonde, Joelle Sarlls, Nancy Lee, Daniel C. Alexander, Armin Raznahan, National Institute of Health, Bethesda, United States
- MT576** **Combat-GAM and Hierarchical Bayesian Regression harmonization: a rare genetic variant example**
Julio Villalón-Reina, Clara Moreau, Talia Nir, Neda Jahanshad, Simons VIP, David Romascano, Anne Maillard, Sarah Lippé, Carrie Bearden, Bogdan Draganski, Paul Thompson, Sebastien Jacquemont, University of Southern California, Los Angeles, United States

Transcriptomics

- MT577** **Regulation of cerebellar gene expression and its role for the risk of neuropsychiatric disorders**
Thomas Mühleisen, Nils Müller, Dominique Hilger, Sebastian Bludau, Peter Pieperhoff, Sven Cichon, Katrin Amunts, Martina Minnerop, INM-1, Research Centre Jülich, Jülich, Germany
- MT578** **Imaging transcriptomics: transcriptomic and molecular neuroimaging signatures in the human brain**
Daniel Martins, Alessio Giacomel, Steve Williams, Federico Turkheimer, Ottavia Dipasquale, Mattia Veronese, IoPPN, London, United Kingdom

- MT579** **Choroid plexus characterization as robust translational surrogate of neuroinflammation**
Gabriel Gonzalez-Escamilla, Vinzenz Fleischer, Dumitru Ciolac, Philip Albrecht, Patrick kuery, Joel Gruchot, Michael Dietrich, Christina Hecker, Thomas Müntefering, Stefanie Bock, Mohammadsaleh Oshaghi, Angela Radetz, Manuela Cerina, Julia Krämer, Lydia Wachsmuth, Cornelius Faber, Hans Lassmann, Tobias Ruck, Sven Meuth, Muthuraman Muthuraman, Sergiu Groppa, University medical center of the Johannes Gutenberg University Mainz, Mainz, Germany

- MT580*** **Whole-brain transcriptomic axes of human brain organization**
Jacob Vogel, Jakob Seidlitz, Konrad Wagstyl, Maxwell Bertolero, Ross Markello, Casey Paquola, Justine Hansen, Alan Evans, Boris Bernhardt, Bratislav Misic, Aaron Alexander-Bloch, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States

Genetics Other

- MT570** **CADM2 Gene Expression is Associated with Cortical Abnormalities in Risky Behaviors**
Shu Liu, Abdel Abdellaoui, Guido van Wingen, Karin Verweij, Amsterdam UMC, University of Amsterdam, Amsterdam, Netherlands
- MT571** **Frontal and temporal cortical regions are associated with Polygenic risk scores for Smoking**
Trycia Kouchache, Budhachandra Khundrakpam, Uku Vainik, Eric Yu, Noor Al-Sharif, Christina Tremblay, Matthias Kirschner, Filip Morys, Andrew Vo, Ziv Gan-Or, Alain Dagher, MNI, Montréal, Canada
- MT572** **Neural correlates of substance use polygenic risk scores**
Renata Cupertino, ZHIPENG CAO, Sarah Medland, Jonatan Ottino, Devarshi Pancholi, Patricia Conrod, Hugh Garavan, Scott Mackey, University of Vermont, Burlington, United States

HIGHER COGNITIVE FUNCTIONS

Decision Making

- MT581** **Prior probability affects the drift rate of evidence accumulation in perceptual decision making**
Jessica Diaz, Ioannis Delis, Marios Philiastides, University of Leeds, Leeds, United Kingdom
- MT582** **Neurocomputational Mechanisms Underlying Cross-Modal Associations and Perceptual Decision Formation**
Joshua Bolam, Stephanie Boyle, Robin Ince, Ioannis Delis, The University of Leeds, Leeds, United Kingdom
- MT583** **Overlapping brain circuitry for decisions based on information- and value gains during exploration**
Kristoffer Aberg, Rony Paz, Weizmann Institute of Science, Rehovot, Israel
- MT584** **A common neural currency account for social and non-social decisions making**
Desislava Arabadzhyska, Oliver Garrod, Elsa Fouragnan, Emanuele De Luca, Philippe Schyns, Marios Philiastides, University of Glasgow, Glasgow, United Kingdom
- MT585** **Spatiotemporal Characterization of Social Risk and Risk-Prediction Error in Humans**
Ralitsa Kostova, Marios Philiastides, The University of Glasgow, Glasgow, United Kingdom

- MT586 Ventral Tegmental Area and Posterior Hippocampus Prediction Error Signals Predict Exploration**
Aysenur Okan, Alexandre Dombrovski, Michael Hallquist, The University of North Carolina – Chapel Hill, Carrboro, United States
- MT587 Brain functional connectivity predicts choice inconsistency**
Asaf Madar, Vered Kurtz-David, Adam Hakim, Dino Levy, Ido Tavor, Tel Aviv University, Tel Aviv, Israel
- MT588 Differential replay for reward and punishment paths predicts approach and avoidance**
Jessica McFadyen, Yunzhe Liu, Ray Dolan, University College London, London, United Kingdom
- MT589 Functional MRI signatures of Pavlovian and Instrumental control during a modified go/nogo task**
Filippo Queirazza, Douglas Steele, Jonathan Cavanagh, Marios Philiastides, University of Glasgow, Glasgow, United Kingdom
- MT590 High-fiber diet changes reward encoding response to high-caloric food cues in overweight adults**
Evelyn Medawar, Frauke Beyer, Ronja Thieleking, Hannah Sophie Heinrichs, Arno Villringer, A. Veronica Witte, Department of Neurology, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT591 Neural representations of metacognition in MEG with novel information-theoretic methods**
Xuan Cui, Yaocong Duan, Jiayu Zhan, Chris Benwell, Robin Ince, Philippe Schyns, School of Psychology and Neuroscience, University of Glasgow, Glasgow, United Kingdom
- MT592 Predictive Modeling of Delayed Reward Discounting in the Human Connectome Project**
Max Owens, Sage Hahn, Nicholas Allgaier, James MacKillop, Hugh Garavan, University of Vermont, Burlington, United States
- MT593 Representing values for prospective decision making**
Alexander Nitsch, Mona Garvert, Jacob Bellmund, Nicolas Schuck, Christian Doeller, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT594 Biases in cognitive and neural processes of value-based decision making are related to resilience**
Rebecca Rammensee, Andrew Heathcote, Ulrike Basten, University of Koblenz-Landau, Landau, Germany
- MT595 MEG spectral fingerprints characterizing human perceptual decision making process**
Antea D'Andrea, Alessio Basti, Annalisa Tosoni, Federico Chella, Sebastian Michelmann, Gian Luca Romani, Vittorio Pizzella, Laura Marzetti, University of Chieti-Pescara, Chieti, Italy
- MT596 Neural correlates of risk-taking in impulsivity**
Philippa Hüpen, Lisa Wagels, Ute Habel, Department of Psychiatry, Psychotherapy and Psychosomatics, RWTH Aachen University, Aachen, Germany
- MT597 White matter signatures of model-based and model-free decision strategies**
Lesage Elise, Hou Hangfeng, Tingyong Feng, Qi Chen, Tom Verguts, University of Ghent, Ghent, Belgium
- MT598 Towards a joint understanding of brain and behavior in decision-making**
Niek Stevenson, Reilly Innes, Steven Miletić, Scott Isherwood, Anne Trutti, Birte Forstmann, Amsterdam University, Leiden, Netherlands

- MT599 Structural Connectome of Reinforcement Learning Constructs using Multimodal Data Fusion**
Poornima Kumar, Sanjana Ramrajvel, Yueyi Jiang, Lisa Nickerson, Diego Pizzagalli, McLean Hospital, Belmont, United States

Executive Function, Cognitive Control and Decision Making

- MT600 Mindfulness Promotes Control of Network Dynamics for Self-Regulation and Updates the Past to Present**
Dale Zhou, Yoona Kang, Danielle Cosme, Mia Jovanova, Xiaosong He, Arun Mahadevan, Ovidia Stanoj, Julia Brynildsen, Nicole Cooper, Eli Cornblath, Linden Parkes, Peter Mucha, Kevin Ochsner, David Lydon-Staley, Emily Falk, Dani Bassett, University of Pennsylvania, Philadelphia, United States
- MT601 Hippocampus neural ensembles are tuned near criticality during a cognition task**
Forough Habibollahi, Dechuan Sun, Anthony Burkitt, Chris French, University of Melbourne, Melbourne, Australia
- MT602 Emotional processing in posterior insula modulated by cognitive control in early psychosis**
Nikitas Koussis, Bjorn Burgher, Michael Breakspear, University of Newcastle, New Lambton Heights, Australia
- MT603 Human thermoregulation above the brainstem: from Reaction to Prediction**
Otto Muzik, Vaibhav Diwadkar, KCI PET Center, Detroit, United States
- MT604 An fMRI Study on Effectivity Connectivity in Creativity and Humor Processing**
Yu-Chen Chan, National Tsing Hua University, Hsinchu, Taiwan
- MT605 Multivoxel decoding reveals a rostro-caudal gradient in the human prefrontal cortex**
Rocco Chiou, John Duncan, Elizabeth Jefferies, Matthew Lambon Ralph, University of Oxford, Oxford, United Kingdom
- MT606 Do neuroplasticity and genetic factors contribute to cognitive training in children?**
Iris Menu, Qin He, Julie Victor, Gabriela Rezende, Lorna Le Stanc, Julie Vidal, Catherine Oppenheim, Edouard Duchesnay, Boris Chaumette, Olivier Houdé, Grégoire Borst, Arnaud Cachia, Université de Paris, Laboratoire de Psychologie du Développement et de l'Éducation, UMR CNRS 8240, Paris, France
- MT607 Upregulation of memory representations by performance monitoring – an fMRI across task MVPA study**
Alexander Weuthen, Markus Ullsperger, Otto-von-Guericke Universität Magdeburg, Germany, Magdeburg, Germany
- MT608 Adaptive coding of stimulus information in human frontoparietal cortex during visual classification**
David Wisniewski, Carlos González-García, Silvia Formica, Alexandra Woolgar, Marcel Brass, Ghent University, Ghent, Belgium
- MT609 The impact of congruency history on cognitive control task representations**
Michael Freund, Todd Braver, Washington University in St Louis, St Louis, United States
- MT610 Meditation modulates prefrontal activity and fatigue: a functional near-infrared spectroscopy study**
Noriki Yamaya, Teruo Hashimoto, Shigeyuki Ikeda, Denilson Brilliant T., Masayuki Tsujimoto, Seishu Nakagawa, Carlos Miyauchi, Ryuta Kawashima, Tohoku University, Sendai, Japan

- MT611** **Neural correlates of resistance to distraction in academic procrastination**
Ewa Wiwatowska, Magdalena Pietruch, Przemysław Katafoni, Jarosław Michałowski, SWPS University of Social Sciences and Humanities, Poznań, Poland
- MT612** **A novel graph matching-based metric of the human connectome varies with age and sex**
Hussain Bukhari, Chang Su, Elvisha Dhamala, Zijin Gu, Keith Jamison, Zhou Fan, Amy Kuceyeski, Weill Cornell Medicine, New York, United States
- MT613*** **Local and distributed cortical markers of effort expenditure**
Lauren Patrick, Kevin Anderson, Avram Holmes, Yale University, New Haven, United States
- MT614** **Network Specificity and Age Differences in Predicting Executive Functioning from Brain Connectivity**
Marisa Heckner, Edna Cieslik, Felix Hoffstaedter, Simon Eickhoff, Kaustubh R. Patil, Robert Langner, Institute of Neuroscience and Medicine (INM-7: Brain and Behaviour), Research Centre Jülich, Jülich, Germany
- MT615*** **Networks of Impulsivity: Evidence from Meta-Analyses and Functional Connectivity Modelling**
Martin Gell, Robert Langner, Vincent Küppers, Edna Cieslik, Theodore Satterthwaite, Simon Eickhoff, Veronika Müller, Department of Psychiatry, Psychotherapy and Psychosomatics, Medical Faculty, RWTH Aachen University, Aachen, Germany
- MT616** **Top-down predictions reverse spatio-temporal dynamics of bottom-up processing to facilitate behavior**
Yuening Yan, Jiayu Zhan, Robin Ince, Philippe Schyns, University of Glasgow, Glasgow, United Kingdom
- MT617** **Different computations over the same inputs produce selective behavior in algorithmic brain networks**
Katarzyna Jaworska, Yuening Yan, Nicola van Rijsbergen, Robin Ince, Philippe Schyns, University of Glasgow, Glasgow, United Kingdom
- MT618** **An fMRI Study on the Effects of Interference and Facilitation in the Stroop Test**
Ruipeng Ning, East China Normal University, Shanghai, China
- MT619** **Toward a neuro-cognitive ontology of self-regulation**
Patrick Bissett, Ian Eisenberg, Henry Jones, McKenzie Hagen, Jaime Ali Rios, Sunjae Shim, A. Enkavi, Jamie Li, Jeanette Mumford, James Shine, David MacKinnon, Lisa Marsch, Russell Poldrack, Stanford University, Fremont, United States
- MT620** **A dual-task approach to inform the taxonomy of inhibition-related processes**
Patrick Bissett, Henry Jones, McKenzie Hagen, Tung Bui, Jamie Li, James Shine, Russell Poldrack, Stanford University, Fremont, United States
- MT622** **Partial Nicotine Replacement: First Step towards Smoking Cessation?**
Chiara Montemitto, Thomas Ross, Betty Jo Salmeron, John Fedota, Massimo di Giannantonio, Elliot A. Stein, National Institute of Drug Abuse, Baltimore, United States
- MT623*** **The neurocognitive mechanism of processing embedded structure within block-based codes for novices**
Xiaoxin Hao, Liyuan Ren, Yuzheng Hu, Fengji Geng, Department of Curriculum and Learning Sciences, Hangzhou, China
- MT624** **The functional relevance of flexible hub connectivity in cognitive control networks**
Carrisa Cocuzza, Ravi Mill, Michael Cole, Rutgers University, Newark, United States
- MT625*** **The influence of atypical lateralization of language in inhibitory control. An fMRI study**
Cristina Cano Melle, Tatiana Davydova, Anastasia Cherednichenko, Lidón Marin-Marín, Esteban Villar-Rodríguez, César Ávila, Universidad Jaume I, Castellón de la Plana, Spain
- MT626** **Longitudinal investigation in children with ADHD and healthy controls: A 2-year ERP study**
Marionna Münger, Silvano Sele, Gian Candrian, Johannes Kasper, Hossam Abdel-Rehim, Dominique Eich, Andreas Müller, Lutz Jäncke, University of Zürich, Zürich, Switzerland
- MT627** **Predicting executive function performance from resting state brain connectivity**
Julia Camilleri, Simon Eickhoff, Susanne Weis, Institute of Neuroscience and Medicine (INM-7), Research Centre Jülich, Jülich, Germany, Jülich, Germany
- MT628*** **Spatiotemporal analysis of information exchange in multiple demand network using fMRI-MEG fusion**
Hamid Karimi-Rouzbahani, Anina Rich, Alexandra Woolgar, University of Cambridge, Cambridge, United Kingdom
- MT629** **Neural and cognitive function in a pediatric brain injury model: the impact of task complexity**
Elizabeth Cox, Julie Tseng, Sonya Bells, Colleen Dockstader, Suzanne Laughlin, Eric Bouffet, Cynthia de Medeiros, Donald Mabbott, The Hospital for Sick Children, Toronto, Canada
- MT630** **Network analysis of auditory Simon task in healthy aging**
Andre Gómez-Lombardi, Lucía Rivera, Begoña Góngora-Costa, Pablo Muñoz, Pavel Prado-Gutierrez, Wael El-Deredy, Universidad de Valparaíso, Viña del Mar, Chile
- MT631** **Can mindfulness help with chronic neuropathic pain from breast cancer treatments? The brain says YES**
Andra Smith, Taylor Hatchard, Olivier Brown, Stephanie Penta, University of Ottawa, Ottawa, Canada
- MT632** **Frontal-midline theta neurofeedback improves some executive functions in a subclinical group**
Diede Smit, Cecilia Dapor, Janneke Koerts, Oliver M. Tucha, Rene J. Huser, Stefanie Enriquez-Geppert, University of Groningen, Groningen, Netherlands
- MT633** **Spatiotemporal network connectivity in salience processing with simultaneous pupillometry-EEG-fMRI**
Hengda He, Linbi Hong, Paul Sajda, Columbia University, New York, United States
- MT634** **One action, two outcomes: Effect of sequential feedback on the feedback-related negativity**
Christopher Warren, Peng Li, Utah State University, Logan, United States
- MT635** **Experience-dependent increases in low-frequency, sleep-like activity attenuate prosocial behavior**
Erica Ordali, Pablo Marcos-Prieto, Giulia Avvenuti, Leonardo Boncinelli, Emiliano Ricciardi, Ennio Bilancini, Pietro Pietrini, Giulio Bernardi, IMT School for Advanced Studies Lucca, Lucca, Italy
- MT636** **Subnetworks of the Human Cingulo-Opercular Network Support Separable Components of Executive Control**
Carolina Badke D'Andrea, Dillan Newbold, Timothy Laumann, Steven Nelson, Scott Marek, Deanna Greene, Nico Dosenbach, Evan Gordon, Washington University School of Medicine, St. Louis, United States
- MT637** **Neural Activity based on Reaction Time During Impulsive Decision Making**
Xiaoxiao Sun, Yael Cykowicz, Diana Rodriguez-Moreno, Christina Hoven, Larry Amsel, Columbia University, New York, United States

MT638 A closer look at cardiac contraction and the effect of cardiac timing on cognitive control
Dominique Makowski, Tam Pham, Zen Juen Lau, An Shu Te, Annabel Chen, Nanyang Technological University, Singapore, Singapore

MT639 Mapping the Cerebellar Cognitive Affective Syndrome In Patients With Chronic Cerebellar Strokes
Amanda Chirino-Pérez, Oscar Marrufo-Meléndez, José Muñoz-López, Rosalinda Díaz, Carlos Hernández-Castillo, Juan Fernandez-Ruiz, UNAM, Mexico City, Mexico

MT640 DMCC55B: The first public release of the Dual Mechanisms of Cognitive Control dataset
Todd Braver, Joset Etzel, Washington University, St. Louis, St. Louis, United States

MT641 Frontal-Striatal Functional Connectivity in Transdiagnostic Pediatric Executive Function Subgroups
Yangfeifei Gao, Xiaozhen You, Madison Berl, Adam Kaminski, Sufang Li, Adnan Rashid, Jessica Smith, Jordan Linde, Lauren Kenworthy, Chandan Vaidya, Children's National Hospital, North Bethesda, United States

Imagery

MT656 Sensory-Dependent Body Representations in the Human Brain
Gustavo Pamplona, Martina Hardmeier, Sofian Younes, Isabelle Goy, Eleonora Fornari, Silvio Ionta, University of Lausanne, Zurich, Switzerland

MT657* Distributed cortical regions for the recall of people, places and objects
Edward Silson, Alexis Kidder, Matthias Nau, Chris Baker, University of Edinburgh, Edinburgh, United Kingdom

MT658 Understanding the Neural Correlates of Vivid Mental Imagery
Thomas Pietruszewski, Heather Kleider-Offutt, Jessica Turner, Georgia State University, Atlanta, United States

Music

MT659 Neural Encoding of Musical Emotions Evoked by Naturalistic Stimuli
Seung-Goo Kim, Tobias Overath, Daniela Sammler, Max Planck Institute for Empirical Aesthetics, Frankfurt, Germany

MT660 Theta Power Differences as a Function of Level of Familiarity with a Musical Style
Gladys Heng, Hiok Chai Quek, Annabel Chen, Nanyang Technological University, Singapore, Singapore

MT661 Temporal decoding dynamics of musical pitch and timbre
Andrew Chang, Xiangbin Teng, David Poeppel, New York University, New York, United States

Reasoning and Problem Solving

MT662 Uncovering Neural Distinctions and Commodities between Divergent thinking and Insight: an ALE study
Changyi Kuang, Lijun Ma, Jiabao Lin, Huiyuan Huang, Bingqing Jiao, Guangzhou University of Chinese Medicine, Guangzhou, China

MT663 Brain structural correlates of dispositional insight
Yajue Chen, Jiabao Lin, School of Civil and Transportation Engineering, Guangdong University of Technology, Guangzhou, China

MT664 Altered Degree Centrality in Creative Insight: A Resting Graph Theory-Based Brain Network Study
Jiabao Lin, Yajue Chen, School of Public Health and Management, Guangzhou University of Chinese Medicine, Guangzhou, China

Space, Time and Number Coding

MT665 Distinct Numerical Order and Magnitude Processing in Children: Connectome-Based Predictive Modeling
Mikael Skagenholt, Kenny Skagerlund, Ulf Träff, Linköping University, Linköping, Sweden

MT666 Are numerosity maps involved in symbolic number processing?
Yuxuan Cai, Shir Hofstetter, Serge Dumoulin, Spinoza Centre for Neuroimaging, Amsterdam, Netherlands

MT667 Human brain representations of internally computed quantities revealed by ultra-high-field fMRI
Sébastien Czajko, Alexandre Vignaud, Evelyn Eger, Neuroscience Research Center, Inserm U1028 / CNRS UMR5292, Bron, France

MT668 Numerosity selective responses elicited from viewing of natural images
Shir Hofstetter, Serge Dumoulin, Spinoza Centre for Neuroimaging, AMSTERDAM, Netherlands

Higher Cognitive Functions Other

MT642* The brain unscrambles temporal information during an out-of-order narrative
Clare Grall, Josefa Equita, Emily Finn, Dartmouth College, Enfield, United States

MT643 Perceptual coupling and decoupling of the default mode network during mind-wandering and reading
Meichao Zhang, Boris Bernhardt, Xiuyi Wang, Dominika Varga, Katya Krieger-Redwood, Jessica Royer, Raúl Rodríguez-Cruces, Reinder Vos de Wael, Daniel Margulies, Jonathan Smallwood, Elizabeth Jefferies, University of York, YORK, United Kingdom

MT644 Searching for brain mediators of expectancy effects on cognitive effort, empathy, and somatic pain
Heejung Jung, Maryam Amini, Bethany Hunt, Ellis Murphy, Philip Kragel, Martin Lindquist, Tor Wager, Dartmouth College, Hanover, United States

MT645 Multimodal prediction of cognitive performance differences in older age
Camilla Krämer, Johanna Stumme, Lucas da Costa Campos, Christian Rubbert, Julian Caspers, Svenja Caspers, Christiane Jockwitz, Forschungszentrum Jülich GmbH, Jülich, Germany

MT646 Network functional connectivity under naturalistic and resting fMRI conditions
Lisa Mochalski, Patrick Friedrich, Simon Eickhoff, Susanne Weis, Forschungszentrum Jülich, Jülich, Germany

MT647 Network and State Specificity in Connectivity-Based Prediction of Individual Behavior
Nevena Kraljević, Robert Langner, Vincent Küppers, Federico Raimondo, Kaustubh Patil, Simon Eickhoff, Veronika Müller, Forschungszentrum Jülich, Jülich, Germany

MT648 High Oxford Happiness Scores Associated with Increased Cerebral Blood Flow in Reward Circuit
David Keator, Daniel Amen, University of California, Irvine, Irvine, United States

- MT649** **Longitudinal changes in inter-subject BOLD synchrony and relation to memory fidelity in movie fMRI**
Eric Kwun Kei Ng, Wan Lin Yue, Xing Qian, Amelia J Koh, Kian Foong Wong, Kai-Yen Chang, Shuping Lim, Angelica Ting Yi Ang, Michael WL Chee, Juan Helen Zhou, Centre for Sleep and Cognition, National University of Singapore, Singapore, Singapore
- MT650** **Intracranial study of humor processing using a Charlie Chaplin movie**
Vadim Axelrod, Alexandra Agiv, Camille Rozier, Elisa Sohler, Katia Lehongre, Claude Adam, Virginie Lambrecq, Vincent Navarro, Lionel Naccache, Bar-Ilan University, Ramat-Gan, Israel
- MT651** **Specific neurolinguistic patterns in a gender-diverse population. A neurofeminist approach**
Anelis Kaiser Trujillo, Armin Heinecke, Evelyn Ferstl, Gender Studies in STEM, Institute of Informatics, Freiburg, Germany
- MT652** **Processing speed and white matter damage in multiple sclerosis**
Matthias Grothe, Sebastian Strauss, Martin Domin, Martin Lotze, Department of Neurology, University Medicine of Greifswald, Germany, Greifswald, Germany
- MT653*** **Event segmentation is supported by a partially nested cortical hierarchy of neural states**
Linda Geerligs, Dora Gözükar, Djamari Oetinger, Karen Campbell, Marcel van Gerven, Umut Güçlü, Donders Institute, Nijmegen, Netherlands
- MT654** **The Relationship between Brain State Flexibility and Different Metrics of General Cognitive Ability**
Justin Ng, Colin Hawco, University of Toronto, Toronto, Canada
- MT655** **Age Differences in Connectivity and Structure of an Individually Defined Dual-Task Network**
Lya Paas Oliveros, Edna Cieslik, Dan Hu, Rachel Pläschke, Xiaolong Peng, Catherine Hubbard, Simon Eickhoff, Hesheng Liu, Robert Langner, Forschungszentrum Jülich, Jülich, Germany

LANGUAGE

Language Acquisition

- MT669** **Impact of diet on the development of hemispheric asymmetry in processing of phonemes in infant brain**
Graciela Alatorre-Cruz, Aline Andres, Yuyuan Gu, Heather Downs, Darcy Hagood, David Williams, Linda Larson-Prior, University of Arkansas for Medical Sciences, Little Rock, United States
- MT670** **L2 Vocabulary Learning Induces Structural Brain Changes: A cortical Thickness Study**
Ladan Ghazi Saidi, University of Nebraska at Kearney, Kearney, United States
- MT671** **Broca's Area Is a Central Node in Computer Programming Learning**
Sara Bengtsson, Andreas Lidström, University of East Anglia, Norwich, United Kingdom

Language Comprehension and Semantics

- MT672** **Semantic hierarchy as a modulator of the concrete-abstract conceptual continuum**
Chiara Battaglini, Davide Bottari, Giacomo Handjaras, Martina Berto, Ella Striem-Amit, Pietro Pietrini, Alessandro Lenci, Giovanna Marotta, Emiliano Ricciardi, IMT School for Advanced Studies Lucca, Lucca, Italy

- MT673** **Language comprehension: explainable AI identifies predictive processing in EEG**
Evguenia Malaia, Sean Borneman, Ronnie Wilbur, Julia Krebs, University of Alabama, Tuscaloosa, United States
- MT674** **The Effect of Idiom Types and Segmentation on Idiom Processing**
Jiawen Chen, Lin Jiabao, Ma Lijun, School of Public Health and Management, Guangzhou University of Chinese Medicine, Guangzhou, China
- MT675** **Distinctive and complementary roles of default mode network subsystems in semantic cognition**
Ximing Shao, Katya Krieger-Redwood, Meichao Zhang, Paul Hoffman, Lucilla Lanzoni, Robert Leech, Jonathan Smallwood, Elizabeth Jefferies, Department of Psychology, University of York, York, United Kingdom
- MT676** **Activation of semantic and social brain networks during auditory story comprehension**
Melissa Thye, Paul Hoffman, Daniel Mirman, University of Edinburgh, Edinburgh, United Kingdom
- MT677** **The Arithmetic Problem Size Effect Across a Bilingual's Languages**
Vanessa Cerda, Nicole Wicha, University of Texas at San Antonio, Weslaco, United States
- MT678** **Electrocortical activity during semantic retrieval is modulated by feature modality**
William Gross, Leonardo Fernandez, Lisa Conant, Max Krucoff, Wade Mueller, Manoj Raghavan, Jeffrey Binder, Medical College of Wisconsin, Milwaukee, United States
- MT679** **Semantic Knowledge Processing in Patient with Ischemic Stroke: VLSM study**
Yoonhye Na, JeYoung Jung, Minjae Cho, Yu Mi Hwang, Sung Bom Pyun, Korea university, Seoul, Korea, Republic of
- MT680** **Count-Mass Distinction in Chinese: Contrasting Within- with Cross-Category Violation of Classifiers**
Hui-Sun Chiu, Tai-Li Chou, National Taiwan University, Taipei, Taiwan
- MT681** **The word frequency effect and language switching examined with diffusion modelling and the N400**
Matthias Kobi, Michael Boos, Stefan Elmer, Lutz Jäncke, University of Zurich, Zurich, Switzerland
- MT682** **The effect of code-switching in participants with varying expertise in simultaneous interpretation**
Michael Boos, Matthias Kobi, Stefan Elmer, Lutz Jäncke, University of Zurich, Zurich, Switzerland
- MT683** **Neural Synchrony is Associated with Language Perception in Listeners with Aphasia**
Lisa Johnson, Stephen Wilson, Grigori Yourganov, Roger Newman-Norlund, Brielle Stark, Alexandra Basilakos, Chris Rorden, Dirk den Ouden, Julius Fridriksson, University of South Carolina, Columbia, United States
- MT684** **Functional Specificity of Language Areas in Children with Epilepsy or Brain Tumor**
Seth Crum, Talitha Boardman, Savannah Gibbs, Shalini Narayana, University of Tennessee Health Science Center, Memphis, United States

Reading and Writing

- MT695** **A Large-Scale Fixel-Based Analysis of Reading Skills in Children**
Steven Meisler, John Gabrieli, Harvard University, Cambridge, United States

- MT696** **Relationship Between Reading Performance and Inter-Subject Connectivity: An fMRI Study**
Elizabeth Wat, Peter Molfese, Emily Finn, Jonathan Preston, Nicole Landi, Kenneth Pugh, Peter Bandettini, National Institute of Mental Health, Fairfax, United States
- MT697** **Neurodevelopmental trajectories of letter processing in children from kindergarten to fifth grade**
Sarah Di Pietro, Iliana Karipidis, Georgette Pleisch, Silvia Brem, University of Zurich, Zurich, Switzerland
- MT698** **Regulating Brain Activity in the Visual Word Form Area with Real-Time fMRI Neurofeedback**
Amelie Hagg, Nada Frei, Milena Menghini, Felizia Stutz, Sara Steinegger, Martina Röthlisberger, Silvia Brem, University of Zurich, Zurich, Switzerland
- MT699** **Using dynamic causal modelling to map computational models for reading onto the brain**
Frederick Junker, Tobias Schmidt-Wilcke, Heinrich Heine University, Duesseldorf, Germany
- MT700** **Multivariate Lesion-Deficit Analysis of Cognitive Components of Reading in Acquired Alexia**
Olga Boukrina, Nicole Giordano, William Graves, Kessler Foundation, West Orange, United States
- MT701** **Resting-state functional connectivity of language and dorsal visual regions in child poor readers**
Zahra Kheradmandsaadi, Hee Yeon Im, Marita Partanen, Linda Siegel, Deborah Giaschi, The University of British Columbia, Vancouver, Canada

Speech Perception

- MT702** **Long-range and hierarchical language predictions in brains and algorithms**
Charlotte Caucheteux, Alexandre Gramfort, Jean-Remi King, INRIA Saclay/Facebook AI Research, Paris, France
- MT703** **Word co-occurrences are coded in lateral temporal perisylvian neocortex**
Rik Vandenbergh, Karen Meersmans, Stefan Sunaert, Patrick Dupont, KU Leuven, Leuven, Belgium
- MT704** **Difference in AEF depending on the position of syllable which is distinguished as a meaningless word**
Minoru Hayashi, Meisei University, Tokyo, Japan
- MT705** **Role of Articulatory Motor Networks in Perceptual Categorization of Speech Signals: A 7T fMRI Study**
Kaisu Lankinen, Jyrki Ahveninen, Işıl Uluç, Tori Turpin, Jennifer Fiedler, Qiyuan Tian, Sheraz Khan, Aapo Nummenmaa, Qing Mei Wang, Marziye Eshghi, Jonathan Polimeni, Jordan Green, Teresa Kimberley, Shasha Li, Massachusetts General Hospital, Boston, United States
- MT706** **Post-stroke Aphasia May Be Associated with Inter-hemispheric Functional Hyperconnectivity**
Ramtin Mehraram, Jill Kries, Pieter de Clercq, Tom Francart, Maaïke Vandermosten, KU Leuven, Leuven, Belgium

Speech Production

- MT707** **Speaker differences in volitional voice modulation in premotor cortex and temporoparietal junction**
Stella Guldner, Frauke Nees, Herta Flor, Carolyn McGettigan, Central Institute of Mental Health Mannheim, Mannheim, Germany

- MT708** **fMRI Activation of Unscripted Discourse in Stroke Patients**
Thomas Maloney, Jennifer Vannest, Krista Wilkinson, Jerzy Szaflarski, Cassandra Stall, Chitralli Mamlekar, Aimee Dietz, University of Cincinnati, Cincinnati, United States
- MT709** **State-dependent effective connectivity in the speech production network – an MEG study**
Johannes Gehrig, Anna Oliynyk, Christian Kell, Goethe University, Frankfurt am Main, Germany
- MT710** **Temporally clustered responses during speech production represent distinct syllable components**
Liam Jackson, Scott Kuzdeba, Andrew Meier, Ayoub Daliri, Jason Tourville, Frank Guenther, Jeremy Greenlee, Boston University, Boston, United States

Language Other

- MT685** **Neural Mechanisms linking Language Context and Pain Processing among Spanish-English Bilinguals**
Morgan Gianola, Elizabeth Losin, University of Miami, Coral Gables, United States
- MT686** **Convergent Validity of Resting-State and Task-Based fMRI in Lateralising Language in Children**
Alexander Marsh, Chris Hobson, Ingram Wright, UHBW NHS Trust, Bristol, United Kingdom
- MT687** **Lateralization of language network in the human brain: A graph theory study**
Yinuo Liu, Chenghui Zhang, Haoyu Hu, Yuzheng Hu, Xiangzhen Kong, Zhejiang University, Hangzhou, China
- MT688** **Characteristics of functional shifts in frontal and temporal language areas based on awake mapping**
Riho Nakajima, Masashi Kinoshita, Hirokazu Okita, Mitsutoshi Nakada, Kanazawa University, Kanazawa, Japan
- MT689*** **Atypical language organization is reflected across gradients of macroscale cortical organization**
Loïc Labache, Leon Qi Rong Ooi, B.T. Thomas Yeo, Avram Holmes, Yale University, New Haven, United States
- MT690** **Brain Age Predicts Long-Term Recovery in Post-Stroke Aphasia**
Sigfus Kristinsson, Natalie Busby, Chris Rorden, Roger Newman-Norlund, Dirk den Ouden, Sigridur Magnúsdóttir, Haukur Hjaltason, Helga Thors, Argye Hillis, Olafur Kjartansson, Leonardo Bonilha, Julius Fridriksson, University of South Carolina, Irmo, United States
- MT691** **Multi-level analysis of language laterality and function in ABCD**
Trevor Day, Robert Hermsillo, Greg Conan, Anita Randolph, Timothy Hendrickson, Jed Elison, Damien Fair, Eric Feczko, University of Minnesota, Minneapolis, United States
- MT692** **Language Network Resilience in Childhood through Adolescence**
Niyousha Khorshid, Brady Williamson, Darren Kadis, University of Toronto, Toronto, Canada
- MT693** **The Left Hemisphere Drives the Right Hemisphere for Expressive Language in Childhood**
Vivek Sharma, Jennifer Vannest, Darren Kadis, Hospital for Sick Children, Toronto, Canada
- MT694** **Sex/gender-related aspects in brain functional connectivity during language processing**
Elena Ábalos Marco, Anelis Kaiser Trujillo, University of Freiburg, Freiburg im Breisgau, Germany

LEARNING AND MEMORY

Implicit Memory

- MT711** **Sense of agency in virtual reality impacts episodic memory in hippocampus and parieto-frontal cortex**
Nathalie Meyer, Baptiste Gauthier*, Elizabeth Franc, Florian Lance, Jevita Potheegadoo, Olaf Blanke, EPFL, Geneva, Switzerland

Long-Term Memory (Episodic and Semantic)

- MT723** **FMRI evidence for representation-based MTL specialisation across memory and perceptive operations**
Jeremy Gardette, Emilie Cousin, Jessica Bourgin, Cédric Pichat, Laurent Torlay, Olivier Moreaud, Pascal Hot, Laboratoire de Psychologie et Neurocognition (LPNC), Chambéry, France
- MT724** **Age-Related Differences in Brain Activity During Episodic Memory Vary According to Menopausal Status**
Arielle Crestol, Sricharana Rajagopal, Alicia Duval, Lina Khayyat, Rosalie Young, Stamatoula Pasvanis, Maria Natasha Rajah, McGill University, Verdun, Canada
- MT725** **Structure and content modifications in episodic cueing: impact on brain activity and memory**
Sophie Siestrup, Benjamin Jainta, Nadiya El-Sourani, Ima Trempler, Oliver Wolf, Sen Cheng, Ricarda Schubotz, University of Münster, Münster, Germany
- MT726** **Arousal Effects on Episodic and Semantic Memory Retrieval in Healthy Ageing**
Marianna Constantinou, Katrin Karadachka, Lars Marstaller, Natasha Burns, Hana Burianova, Bournemouth University, Bournemouth, United Kingdom
- MT727** **Elaborating on the role of the hippocampus in constructing remote autobiographical memories**
Sam Audrain, Adrian Gilmore, Jenna Wilson, Alex Martin, National Institute of Mental Health, Bethesda, United States
- MT728** **Encoding-related brain activity determines enhanced recognition of threatening faces after 1.5 years**
Xiqin Liu, Zhou Xinqi, Yixu Zeng, Li Jialin, Weihua Zhao, Lei Xu, Zheng Xiaoxiao, Fu Meina, Yao Shuxia, Carlo Cannistraci, Keith Kendrick, Benjamin Becker, University of Electronic Science and Technology of China, Chengdu, China
- MT729** **Probabilistic functional modes related to subject variability in recognition memory performance**
David Coynel, Jana Petrovska, Andreas Papassotiropoulos, Dominique de Quervain, University of Basel, Basel, Switzerland
- MT730** **Sex-specific association of amygdala activity with memory performance**
Ehssan Amini, David Coynel, Andreas Papassotiropoulos, Dominique de Quervain, University of Basel, Basel, Switzerland
- MT731** **The contribution of thalamic subdivisions to learning is associated with interindividual variability**
Roberta Passiatore, Linda Antonucci, Manojkumar Saranathan, Alessandro Bertolino, Boris Suchan, Giulio Pergola, University of Bari Aldo Moro, Bari, Italy

- MT732** **Hippocampal volume predicts episodic memory performance and whole-brain activation in healthy aging**
Jamie Snytte, Can Fenerci, Sricharana Rajagopal, Camille Beaudoin, Kiera Hooper, Rosanna Olsen, Signy Sheldon, Maria Natasha Rajah, McGill University, Montreal, Canada
- MT733*** **An integrated approach for assessing relational memory in healthy and epileptic individuals**
Shahin Tavakol, Jessica Royer, Qionglin Li, Elizabeth Jefferies, Andrea Bernasconi, Neda Bernasconi, Birgit Frauscher, Jonathan Smallwood, Boris Bernhardt, McGill University, Montreal Neurological Institute, BIC, MICA lab, Montreal, Canada
- MT734** **Network Connectivity Underlying Episodic Memory in Children: Application of a PBTS Injury Model**
Katie Wade Alonso, Noor Al Dahhan, Julie Tseng, Cynthia de Medeiros, Eric Bouffet, Suzanne Laughlin, Donald Mabbott, The Hospital for Sick Children, Toronto, Canada
- MT735** **Creative insight changes how the hippocampus and medial prefrontal cortex map knowledge**
Johanna Bergmann, Christian Doeller, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT736** **Age-dependent involvement of default mode network structures in episodic long-term memory formation**
Jasmin Kizilirmak, Anni Richter, Joram Soch, Hartmut Schütze, Renat Yakupov, Emrah Düzel, Björn Schott, German Center for Neurodegenerative Diseases, Göttingen, Germany
- MT737** **Exploring Hippocampal Subfield Volume in Severely Deficient Autobiographical Memory**
Stephanie Simpson, Rosanna Olsen, Brian Levine, University of Toronto, Waterloo, Canada
- MT738*** **Structural and functional MRI data differentially predict chronological age and memory performance**
Joram Soch, Anni Richter, Hartmut Schütze, Jasmin Kizilirmak, Björn Schott, Bernstein Center for Computational Neuroscience, Berlin, Germany
- MT739** **Hippocampal-cortical functional connectivity during memory encoding and retrieval**
Liisa Raud, Markus Sneve, Didac Vidal-Piñeiro, Øystein Sørensen, Håkon Grydeland, Line Folvik, Hedda Ness, Athanasia Mowinckel, Kristine Walhovd, Anders Fjell, University of Oslo, Oslo, Norway
- MT740** **Covarying patterns of choroid plexus associates with memory performance – a translational model**
Muthuraman Muthuraman, Lara Molina Galindo, Gabriel Gonzalez-Escamilla, Dumitru Ciolac, Angela Radetz, Vinzenz Fleischer, Manuela Cerina, Lydia Wachsmuth, Petra Hundehage, Patrick Schiffler, Jan-Gerd Tenberge, Venu Narayanan, Julia Krämer, Thomas Budde, Cornelius Faber, Sven Meuth, Sergiu Groppa, University medical center of the Johannes Gutenberg University, Mainz, Germany
- MT741** **Real-time fMRI neurofeedback improves pattern separation in healthy adults and patients with MCI**
Katharina Klink, Jessica Peter, University of Bern, Bern, Switzerland
- MT742** **Long-term cognitive and hippocampal benefits from memory training**
Anne Cecilie Bråthen, Ann-Marie de Lange, Øystein Øystein Sørensen, Kristine Walhovd, Anders Fjell, University of Oslo, Oslo, Norway

- MT743 Hippocampal neurons code individual episodic memories in humans**
Luca Kolibius, Frederic Roux, George Parish, Marije Ter Wal, Mircea Van Der Plas, Ramesh Chelvarajah, Vijay Sawlani, David Rollings, Johannes Lang, Stephanie Gollwitzer, Katrin Walther, Rüdiger Hopfengaertner, Gernot Kreiselmeyer, Hajo Hamer, Bernhard Staresina, Maria Wimber, Howard Bowman, Simon Hanslmayr, Glasgow University, Glasgow, United Kingdom
- MT744 Investigating the functional specialization of declarative memory subsystems**
Svenja Klinkowski, Anna Seewald, Björn Fath, Panagiotis Iliopoulos, Silke Schmidt, Franziska Voss, Michael Erb, Klaus Scheffler, Steffen Gais, Svenja Brodt, Eberhard Karls University Tübingen, Tübingen, Germany
- MT745 What Does it Mean Over There? The interplay of space and meaning in Default and Control networks**
Tirso Gonzalez Alam, Dominika Varga, Zhiyao Gao, Katya Krieger-Redwood, Tom Hartley, Aidan Horner, Jonathan Smallwood, Elizabeth Jefferies, University of York, York, United Kingdom
- MT746 Sleep consolidates early neocortical traces by enhancing thalamic and striatal contributions**
Svenja Brodt, Monika Schönauer, Michael Erb, Klaus Scheffler, Steffen Gais, University of Tübingen, Tübingen, Germany
- MT747 Tracking encoding-retrieval transformations using EEG-based representational structures**
Michael Postzich, Juan Linde-Domingo, Casper Kerrén, Maria Wimber, University of Glasgow, Birmingham, United Kingdom
- MT748 Intra-Hemispheric Map of Parahippocampus to Language Network Predicts Memory Ability**
Leigh Sepeta, Xiaozhen You, Laure Reppert, Manu Krishnamurthy, William Gaillard, Madison Berl, CNH, Washington, United States
- MT755 Investigating the information content of cortical sensorimotor remapping following hand loss**
Dollyane Muret, Maria Kromm, Arabella Bouzigues, Vijay Kolli, Tamar Makin, Institute of Cognitive Neuroscience, UCL, London, United Kingdom
- MT756 Does Sight Restoration Alter Cross-modal Functional Connections?**
Negin Nadvar, Noelle Stiles, Jeiran Choupan, Hossein Ameri, Yonggang Shi, Vivek Patel, John Jonides, James Weiland, University of Michigan, Ypsilanti, United States
- MT757 Can hand-loss improve motor control and sensorimotor representation of the other hand?**
Raffaele Tucciarelli, Daan Wesselink, Naveed Ejaz, Jörn Diedrichsen, Carl Hodgetts, Tamar Makin, Institute of Cognitive Neuroscience, London, United Kingdom
- MT758* Intrinsic rs-fMRI connectivity on the isolated and connected hemisphere after hemispherotomy**
Tobias Bauer, Sebastian Markett, Conrad Prillwitz, Christian Hoppe, Johannes Schramm, Bernd Weber, Christian Elger, Rainer Surges, Theodor Rüber, University Hospital Bonn, Bonn, Germany
- MT759 A Multimodal Navigation Area: Post Critical Period Recruitment of V6 by the Congenitally Blind**
Elena Aggius Vella, Daniel-Robert Chebat, Shachar Maidenbaum, Amir Amedi, Reichman University, Herzliya, Israel
- MT760 The role of corticospinal and extrapyramidal pathways in motor impairment after stroke**
Theresa Paul, Matthew Cieslak, Lukas Hensel, Valerie Wiemer, Christian Grefkes, Scott Grafton, Gereon Fink, Lukas Volz, University Hospital Cologne, Cologne, Germany
- MT761* Mapping the influence of visual experience during cortical reorganization in adulthood**
Joana Carvalho, Francisca Fernandes, Noam Shemesh, Champalimaud Foundation, Lisboa, Portugal

Neural Plasticity and Recovery of Function

- MT749 Differences in Retinotopic Organization of Early Visual Areas after Temporary Congenital Blindness**
Carolin Brockhaus, Minye Zhan, Madita Linke, Rick van Hoof, Rainer Goebel, Brigitte Röder, Universität Hamburg, Hamburg, Germany
- MT750 The Long-Term Effects of Epilepsy Surgery on Memory Encoding: A Longitudinal fMRI Study**
Marine Fleury, Sarah Buck, Pamela Thompson, John Duncan, Meneka Sidhu, University College London (UCL), London, United Kingdom
- MT751* Latent disconnectome prediction of long-term cognitive symptoms in stroke**
Lia Talozzi, Stephanie Forkel, Valentina Pacella, Victor Nozais, Maurizio Corbetta, Parashkev Nachev, Michel Thiebaut de Schotten, CNRS, Bordeaux University, Bordeaux, France
- MT752 Corticospinal tract associations with motor impairment after Stroke: a quantitative MRI approach**
Zeena-Britt Sanders, Melanie Fleming, Tom Smejka, Marilien Marzolla, Daniel Papp, Dr. Cassandra Sampaio-Baptista, Heidi Johansen-Berg, University of Oxford, Oxford, United Kingdom
- MT753 The Connectome Plasticity Project**
Gal Ben-Zvi, Yaniv Assaf, Tel-Aviv University, Tel-Aviv, Israel
- MT754 Brief monocular deprivation alters induced neural activity of visual and audio-visual processing**
Alessandra Federici, Giulio Bernardi, Irene Senna, Marta Fantoni, Marc Ernst, Emiliano Ricciardi, Davide Bottari, IMT School for Advanced Studies Lucca, Lucca, Italy

Skill Learning

- MT762 Changes in white matter and connectivity induced by real-life programming learning experiences**
Ronnie Krupnik, Yaniv Assaf, Tel Aviv University, Tel-Aviv, Israel
- MT763 What's the impact of Programming Learning on the Error Monitoring Network? A Neurobehavioral study**
Joao Castelhana, Ana Rodrigues, Susana Mougá, Ines Bernardino, Isabel Duarte, Henrique Madeira, Ricardo Almeida, Maria de Almeida, Miguel Castelo-Branco, CIBIT/ICNAS University of Coimbra, Coimbra, Portugal
- MT764 Corresponding changes in individual brain activity and connectivity following language acquisition**
Yael Coldham, Eden Elbaz, Tamar Ben David, Neta Haluts, Shachar Gal, Naama Friedmann, Ido Tavor, Tel Aviv University, Tel Aviv, Israel
- MT765 Skilled Reaching After Stroke Increases Human Brain Myelin**
Cristina Rubino, Beverley Larssen, Larissa Chiu, Hanwen Liu, Sarah Kraeutner, Niru Mahendran, Ronan Denyer, Bimal Lakhani, Michael Borich, Cornelia Laule, Lara Boyd, University of British Columbia, Vancouver, Canada
- MT766 Effect of Motor Memory Reactivation on Consolidation Depends on the Stimulated Phase of Slow Waves**
Judith Nicolas, Bradley King, David Levesque, Latifa Lazzouni, DAVID Wang, Nir Grossman, Stephan Swinnen, Julien Doyon, Julie Carrier, Genevieve Albouy, KU LEUVEN, Leuven, Belgium

MT767 **Estimated gray matter volume rapidly changes after a short motor task**
Gaia Olivo, Martin Lövdén, Amirhossein Manzouri, Laura Terlau, Bo Jenner, Arian Jafari, Sven Petersson, Tie-Qiang Li, Håkan Fischer, Kristoffer Månsson, Göteborg Universitet, Göteborg, Sweden

MT768 **White matter microstructure predicts learning**
Sophia Vinci-Booher, Elizabeth Berquist, Franco Pestilli, Indiana University, Bloomington, United States

MT769 **Sleep-Dependent Motor Memory Consolidation: Changes in Resting State Functional Connectivity**
Keelin Greenlaw, Hugo Jourde, Christopher Steele, Emily Coffey, Concordia University, Montreal, Canada

Working Memory

MT770 **Towards a reproducible layer fMRI pipeline for high-level cognition**
Denis Chaimow, Jonas Karolis Degutis, Daniel Haenelt, Robert Trampel, Nikolaus Weiskopf, Romy Lorenz, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

MT771 **Increased working memory load activates superficial layers of the dorsolateral prefrontal cortex**
Jonas Karolis Degutis, Denis Chaimow, Daniel Haenelt, Moataz Assem, John Duncan, Nikolaus Weiskopf, Romy Lorenz, Charité – Universitätsmedizin Berlin, Berlin, Germany

MT772 **Probing the laminar circuitry of the dlPFC during the attentional modulation of working memory**
Romy Lorenz, Denis Chaimow, Jonas Karolis Degutis, Moataz Assem, John Duncan, Nikolaus Weiskopf, University of Cambridge & MPI Leipzig, Cambridge, United Kingdom

MT773 **Investigating Rapid T1 Morphological Change with the 2-Back Task**
Michael Sun, Carmen Bango, Kristoffer Månsson, Tor Wager, Dartmouth College, Hanover, United States

MT774 **Associations between body mass index, gray matter volume and working memory in healthy children**
Yaqi Zhang, Peter Manza, Nora Volkow, Weibin Ji, Fukun Jiang, Feifei Wu, Guanya Li, Wenchao Zhang, Yang Hu, Yi Zhang, Gene-Jack Wang, Dardo Tomasi, Xidian University, Xi'an, China

MT775 **The usefulness of functional connectivity to predict success and failure of working memory**
Dahye Kim, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of

MT776* **A unique temporal, spatial, and spectral description of the working memory oscillatory dynamics**
Chiara Rossi, Diego Vidaurre, Lars Costers, Marie D'hooghe, Miguel D'Haeseleer, Guy Nagels, Jeroen Van Schependom, Vrije Universiteit Brussel VUB, Brussels, Belgium

MT777 **Does Stress Benefit Working Memory? A Test of the Hormesis Hypothesis**
Assaf Oshri, Zehua Cui, Cory Carvalho, Max Owens, Jiaying Liu, Lawrence Sweet, University of Georgia, Athens, United States

MT778 **Neural substrates of working memory subprocesses for dynamic motion stimulus**
Hui Zhou, Conghui Su, Jinglan Wu, Jiaofeng Li, Xiqian Lu, Liangyu Gong, Zaifeng Gao, Yuzheng Hu, Zhejiang University, Hangzhou, China

MT779 **Stable and variable brain activity during different spatial working memory studies**
Nina Purg, Youngsun Cho, Geena Fram, John Murray, Alan Anticevic, Grega Repovš, Faculty of Arts, University of Ljubljana, Ljubljana, Slovenia

MT780 **Global cognitive performance predicts working memory network functional activity**
Talía Román-López, Xanat López-Camaño, Diego Ramírez-González, Itzamná Sánchez-Moncada, Vanessa Murillo-Lechuga, Miguel Rentería, Alejandra Medina-Rivera, Alejandra Ruiz-Contreras, Sarael Alcauter, Institute of Neurobiology, UNAM, Queretaro, Mexico

Learning and Memory Other

MT712 **Prefrontal TMS disrupts micro-offline processes during motor sequence learning**
Mareike Gann, Nina Dolfen, Edwin Robertson, Genevieve Albouy, KU Leuven, Leuven, Belgium

MT713 **Sigma-band large-scale brain network connectivity decreases during sleep following motor learning**
Simon Titone, Jessica Samogin, Philippe Peigneux, Stephan Swinnen, Dante Mantini, Genevieve Albouy, KU Leuven, Leuven, Belgium

MT714 **The hippocampus binds movements to their temporal position during motor sequence learning**
Nina Dolfen, Serena Reverberi, Hans Op de beeck, Bradley King, Genevieve Albouy, KU Leuven, Leuven, Belgium

MT715 **Neural substrates underlying schema-mediated motor memory consolidation**
Serena Reverberi, Nina Dolfen, Bradley King, Genevieve Albouy, KU Leuven, Leuven, Belgium

MT716 **Effects of prototype abstraction on pattern completion and inference in concept space**
Theo Schäfer, Eric Schulz, Stephanie Theves, Christian Doeller, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

MT717 **Neurophysiological evidence for cognitive map formation during sequence learning**
Jennifer Stiso, Christopher Lynn, Ari Kahn, Vinitha Rangarajan, Karol Szymula, Ryan Archer, Andy Revell, Joel Stein, Brian Litt, Kathryn Davis, Timothy Lucas, Dani Bassett, University of Pennsylvania, Philadelphia, United States

MT718 **Temporal Clustering of Spindles Promotes Motor Memory Reprocessing During Sleep**
Ella Gabitov, Arnaud Boutin, Basile Pinsard, Nitzan Censor, Stuart Fogel, Genevieve Albouy, Bradley King, Habib Benali, Julie Carrier, Leonardo Cohen, Avi Karni, Julien Doyon, McGill University, Montreal, Canada

MT719 **Neural correlates of paradoxical interactions between Pavlovian cues in human associative learning**
Fahd Alhazmi, Guillem Esber, Anjali Krishnan, Brooklyn College of the City University of New York, Brooklyn, United States

MT720 **Memory prediction based on the lateral temporal cortical gamma power**
Soyeon Jun, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of

MT721 **Integrating knowledge about structure and reward contingencies for generalization and inference**
Felix Deilmann, Mona Garvert, Christian Doeller, Max Planck Institute for Human Cognitive & Brain Sciences, Leipzig, Germany

MT722 An intracranial EEG study on representations during learning
Ai Phuong Tong, Vishnu Sreekumar, Mark Woolrich, Huiling Tan, Sara Inati, Kareem Zaghloul, University of Oxford/National Institutes of Health, Bethesda, United States

LIFESPAN DEVELOPMENT

Aging

MT781 Reduced Age-Related Gray Matter Loss in the Orbitofrontal Cortex in Long-term Meditators
Eileen Luders, Florian Kurth, University of Auckland, Auckland, New Zealand

MT782 [NiBAx] The neuro-imaging brain aging chart leveraging machine learning and large-scale analytics
Ahmed Abdulkadir, Randa Melhem, Ashish Singh, Elizabeth Mamourian, Zhijian Yang, Guray Erus, Jimit Doshi, Yuhuan Cui, Ioanna Skampardoni, Sindhuja Tirumalai Govindarajan, Dhivya Srinivasan, Junhao Wen, Raymond Pomponio, Katharina Wittfeld, Hans Grabe, Duygu Tosun, Murat Bilgel, Yang An, Daniel Marcus, Pamela LaMontagne, Susan Heckbert, Thomas Austin, Lenore Launer, Aristeidis Sotiras, Mark Espeland, Colin Masters, Paul Maruff, Jurgen Fripp, Sterling Johnson, John Morris, Marilyn Albert, Nick Bryan, Susan Resnick, Yong Fan, Mohamad Habes, David Wolk, Ilya Nasrallah, Haochang Shou, Christos Davatzikos, University of Pennsylvania, Philadelphia, United States

MT783 Linking structural and functional brain network changes during aging using multilayer analyses
Gwendolyn Jauny, Mite Mijalkov, Anna Canal-Garcia, Giovanni Volpe, Joana Pereira, Francis Eustache, Thomas Hinault, Neuropsychologie et Imagerie de la Mémoire Humaine (U-1077), CAEN, France

MT784 Neural correlates of affective empathy in aging: A multimodal imaging, multivariate approach
Maryam Ziaei, Lena Oestreich, Jonas Persson, David Reutens, Natalie Ebner, University of Queensland, Toowong/ Brisbane, Australia

MT785 The impact of brain iron accumulation on cognition: A study in grey matter and hippocampal subfields
Holly Spence, Chris McNeil, Gordon Waiter, University of Aberdeen, Aberdeen, United Kingdom

MT786 Modelling cognitive outcomes in the UK Biobank: education, noradrenaline and frontoparietal networks
Laura Bravo-Merodio, John Williams, Georgios Gkoutos, Magdalena Chechlacz, University of Birmingham, Birmingham, United Kingdom

MT787 Modes of covariation between vascular risk factors and cognition in the UK, Hong Kong, and Sydney
Bonnie Yin Ka Lam, Vincent Hui, Sana Suri, Klaus Ebmeier, Vincent Mok, Thomas Nichols, Heidi Johansen-Berg, Piergiorgio Salvan, University of Oxford, Oxford, United Kingdom

MT788 MRI-based Cerebrovascular Reactivity and Iron Deposition in Senior Adults
Hong-Yi Wu, Yi-Wen Lin, Lun-De Liao, Chih-Mao Huang, Changwei Wu, Jyh-Horng Chen, National Taiwan University, Taipei, Taiwan

MT789 A cross-sectional and longitudinal study of aging, interference, and white-matter integrity
Pernilla Andersson, XIN LI, Jonas Persson, Örebro University, Örebro, Sweden

MT790 Construct validity of single-value scores reflecting memory-related fMRI activity
Anni Richter, Joram Soch, Jasmin Kizilirmak, Hartmut Schütze, Renat Yakupov, Björn Schott, Leibniz Institute for Neurobiology, Magdeburg, Germany

MT791 Advanced Brain Age Beyond Chronological Age is Associated with Worse Language Deficits After Stroke
Natalie Busby, Janina Wilmskoetter, Ezequiel Gleichgerrcht, Chris Rorden, Rebecca Roth, Roger Newman-Norlund, Argye Hillis, Simon Keller, Christophe de Bezenac, Julius Fridriksson, Leo Bonilha, University of South Carolina, Columbia, United States

MT792 Uniqueness of Human Brain Aging in Primate Evolution
Sam Vickery, Kaustubh Patil, Robert Dahnke, William D. Hopkins, Chet C. Sherwood, Svenja Caspers, Simon Eickhoff, Felix Hoffstaedter, Forschungszentrum Jülich, Jülich, Germany

MT793* Multilayer connectivity captures sex differences in functional brain connectivity throughout aging
Mite Mijalkov, Dániel Veréb, Anna Canal Garcia, Emiliano Gomez Ruiz, Oveis Jamialahmadi, Stefano Romeo, Giovanni Volpe, Joana B. Pereira, Karolinska Institutet, Huddinge, Sweden

MT794* Fold opening dynamics during the aging process highlight new sulcus communities
Wenqi Shu-Quartier-dit-Maire, Yann Le Guen, Vincent Bouteloup, Vincent Frouin, Carole Dufouil, Jean-François Mangin, CEA, Gif-sur-Yvette, France

MT795 A comprehensive array of gray matter labels for the MIITRA atlas: Development and evaluation
Mohammad Rakeen Niaz, Abdur Raquib Ridwan, Yingjuan Wu, Shengwei Zhang, David Bennett, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States

MT796 Structural Neural Correlates of Driving Across the Aging Spectrum: A VR Driving Simulator MRI Study
Dylan Guan, Nathan Churchill, Corinne Fischer, Simon Graham, Tom Schweizer, University of Toronto, Calgary, Canada

MT797 Thalamocortical excitability-modulation supports attentional flexibility across the adult lifespan
Julian Kosciessa, Ulman Lindenberger, Douglas Garrett, Max Planck Institute for Human Development, Berlin, Germany

MT798 Neural correlates of visuo-spatial learning in young and older individuals
Dawid Strzelczyk, Tzvetan Popov, Nicolas Langer, University of Zurich, Zurich, Switzerland

MT799 Assessment of brain-age prediction on longitudinal structural MR imaging data
Nikhil Bhagwat, Jérôme Dockès, Jean-Baptiste Poline, McGill University, Montreal, Canada

MT800 Neurocognitive testing from the home: quality of repeated, self-administered wireless dry EEG
Florentine Barbey, Francesca Farina, Alison Buick, Laura Rueda-Delgado, John Dyer, Md Islam, Brian Murphy, Hugh Nolan, Robert Whelan, Trinity College Dublin, Dublin, Ireland

MT801 The role of hemispheres in the sensorimotor network: Age and performance related differences
Johanna Stumme, Svenja Caspers, Christiane Jockwitz, Heinrich Heine University Düsseldorf, Düsseldorf, Germany

MT802 High-order interactions in aging explained through changes in the connectome in a whole-brain model
Marilyn Gatica, Fernando Rosas, Pedro Mediano, Ibai Diez, Stephan Swinnen, Patricio Orio, Rodrigo Cofré, Jesus M., Universidad de Valparaíso; Universidad del País Vasco (UPV/EHU), Bilbao, Spain

- MT803 Social isolation and the aging brain**
Laurenz Lammer, Frauke Beyer, Melanie Lupp, Christian Sander, Ronny Baber, Christoph Engel, Kerstin Wirkner, Markus Löffler, Steffi Riedel-Heller, Arno Villringer, A. Veronica Witte, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT804 Reduced white matter integrity related to proprioceptive impairment due to age: a DWI study**
Daniela Pinzon, Caroline Landelle, Raphaëlle Schlienger, Julien Sein, Jean-Luc Anton, Olivier Félician, Anne Kavounoudias, Carl von Ossietzky Universität Oldenburg, Oldenburg, Germany
- MT805 Age-related decline of white matter and cognition**
Silvano Sele, Franz Liem, Susan Mérillat, Lutz Jäncke, University of Zurich, Zurich, Switzerland
- MT806 Generative Aging of Brain Images with Diffeomorphic Registration**
Jingru Fu, Daniel Ferreira, Rodrigo Moreno, KTH, Huddinge, Sweden
- MT807 APOE genotype and subcortical brain volumes in 43,195 individuals from the UK Biobank**
Christopher Ching, Sophia Thomopoulos, Emma Gleave, Vigneshwaran Santhalingam, Alyssa Zhu, Tasfiya Islam, Zvart Abaryan, Paul Thompson, University of Southern California, Marina del Rey, United States
- MT808 The virtual aging brain: how the structure-function relationship determines cognitive decline**
Mario Lavanga, Johanna Stumme, Bahar Yalcinkaya, Jan Fousek, Christiane Jockwitz, Hiba Sheheitli, Nora Bittner, Meysam Hashemi, Spase Petkoski, Svenja Caspers, Viktor Jirsa, Institut de Neurosciences des Systèmes, Aix-Marseille University, Marseille, France
- MT809 Myeloarchitectonic Properties of Sensorimotor Areas Influence Thinning in Aging**
Arianna Brancaccio, Davide Tabarelli, Paolo Belardinelli, Centre for Mind/Brain Sciences (CIMeC) – University of Trento, Mattarello, Italy
- MT810 Age-related changes in connectivity and cross-frequency couplings in resting-state EEG**
Tibor Auer, Robin Goldthorpe, Robert Peach, Ines Violante, University of Surrey, Guildford, United Kingdom
- MT811 High resolution PD-weighted, T2-weighted, and T2 map templates of the older adult brain**
Abdur Raquib Ridwan, Mohammad Rakeen Niaz, Yingjuan Wu, Shengwei Zhang, David Bennett, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States
- MT812 Aging-related cognitive, anatomical and functional decline is reverted by D-serine supplementation**
Laura Nava-Gomez, Isnarhazni Calero-Vargas, Frida Higinio-Rodriguez, Barbara Vazquez-Prieto, Rafael Olivares-Moreno, Juan Ortiz-Retana, Nancy Hernandez-Chan, Gerardo Rojas-Piloni, Sarael Alcauter-Solórzano, Mónica López-Hidalgo, Escuela Nacional De Estudios Superiores, Queretaro, Mexico
- MT813 Multiscale functional connectivity patterns of the aging brain learned from multiple datasets**
Zhen Zhou, Dhivya Srinivasan, Hongming Li, Ahmed Abdulkadir, Ilya Nasrallah, Junhao Wen, Jimit Doshi, Guray Erus, Elizabeth Mamourian, Nick Bryan, David Wolk, Andrea Shafer, Lori Beason-Held, Susan Resnick, Theodore Satterthwaite*, Christos Davatzikos, Haochang Shou, Yong Fan, University of Pennsylvania, Philadelphia, United States
- MT814 Estimate gender-specific age-related glymphatic function changes with resting-state functional MRI**
Feng Han, Yifan Yang, Xiao Liu, the Pennsylvania State University, State College, United States
- MT815 Mean arterial pressure is associated with cerebral perfusion parameters across the adult lifespan**
Ezgi Yetim Arsava, John Jacoby, Allison Lovely, Kathryn Yochim, Randa Almaktoom, David Salat, Meher Juttukonda, Massachusetts General Hospital, Boston, United States
- MT816 Increased Neural Differentiation and Executive Function after a Single Session of Aerobic Exercise**
Jeremy Purcell, Junyeon Won, Daniel Callow, Robert Wiley, J. Carson Smith, University of Maryland, Baltimore, United States
- MT817 Predicting age-related cortical changes: Can an online battery match in-person cognitive testing?**
Renate Thienel, Léonie Borne, Gail Robinson, Jurgen Fripp, Joseph Giorgio, Nick Martin, Michael Breakspear, Michelle Lupton, The University of Newcastle, New Lambton Heights, Australia
- MT818 Estimating cognition-specific brain age by using meta-analysis and machine learning approach**
Huei-Yu Tsai, Chen-Yuan Kuo, Chun-Wei Hsu, Li-Hung Chang, Liang-Kung Chen, Ching-Po Lin, INS, National Yang-Ming Chiao-Tung University, Taipei, Taiwan
- MT819 Accelerated brain aging in physio-cognitive decline syndrome: I-Lan Longitudinal Aging Study**
Chen-Yuan Kuo, Chih-Ping Chung, Pei-Lin Lee, Liang-Kung Chen, Kun-Hsien Chou, Ching-Po Lin, AHRC, National Yang-Ming Chiao-Tung University, Taipei, Taiwan
- MT820 Brain aging MRI patterns in a cohort of 28,740 cognitively unimpaired people via deep learning**
Ioanna Skampardon, Ilya Nasrallah, Ahmed Abdulkadir, Randa Melhem, Ashish Singh, Elizabeth Mamourian, Zhijian Yang, Guray Erus, Jimit Doshi, Yuhan Cui, Dhivya Srinivasan, Junhao WEN, Raymond Pomponio, Monica Hill-Truelove, Katharina Wittfeld, Hans Grabe, Duygu Tosun, Murat Bilgel, Yang An, Daniel Marcus, Pamela LaMontagne, Susan Heckbert, Thomas Austin, Lenore Launer, Aristeidis Sotiras, Mark Espeland, Colin Masters, Paul Maruff, Jurgen Fripp, Sterling Johnson, John Morris, Marilyn Albert, Nick Bryan, Susan Resnick, Yong Fan, Mohamad Habes, David Wolk, Haochang Shou, Konstantina Nikita, Christos Davatzikos, National Technical University of Athens, Athens, Greece
- MT821 Fuzzy Recurrence Eigenvalues of Aging with fMRI**
Qiang Li, Image processing lab, Valencia, Spain
- MT822 Age-related vulnerability of the human brain connectome**
Camilla Cividini, Silvia Basaia, Edoardo Gioele Spinelli, Veronica Castelnovo, Michela Leocadi, Davide Calderaro, Elisa Canu, Massimo Filippi, Federica Agosta, San Raffaele Scientific Institute, Vita-Salute San Raffaele University, Milano, Italy
- MT823 Poorer white matter microstructure predicts slower and more variable reaction time performance**
Ethan McCormick, Rogier Kievit, Radboud UMC, Nijmegen, Netherlands
- MT824 Frailty aging: the key role of depression and supramarginal gyrus**
Sara Isernia, Valeria Blasi, Gisella Baglio, Monia Cabini, Pietro Cecconi, Francesco Blasi, Chiara Bruckmann, Fabrizio Giunco, Federica Rossetto, Marta Cazzoli, Mario Clerici, Francesca Baglio, IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milano, Italy
- MT825 Brain-age prediction using deep learning as a measure of pre- and post-stroke brain integrity**
Morgan Gautherot, Gregory Kuchcinsky, Cécile Bordier, Vincent Roca, Romain Viard, Martin Bretzner, Xavier Leclerc, Jean-Pierre Pruvo, Régis Bordet, Renaud Lopes, Lille University, Lille, France

- MT826 Contributions of the COMT polymorphism on brain iron accumulation and working memory**
Jonatan Gustavsson, Goran Papenberg, Farshad Falahati, Erika Laukka, Grégoria Kalpouzos, Karolinska Institutet, Solna, Sweden
- MT827 White matter microstructural changes in healthy aging: a DTI and NODDI study**
silvia basaila, Federica Agosta, Camilla Cividini, Francesco Guarnaccia, Edoardo Gioele Spinelli, Massimo Filippi, Ospedale San Raffaele, Milano, Italy
- MT828 Characterization of Beta Bursts in the Motor Cortex During Unimanual and Bimanual Movement**
Rahul Chatterjee, Xuanteng Yan, Georgios Mitsis, Marie-Hélène Boudrias, McGill University, Montreal, Canada
- MT829 APOE ε4 Modulates the Relationship between Cognition and Hemodynamic Markers in Different Age Groups**
Marziye Eshghi, David Salat, John Jacoby, Allison Lovely, Nikou Damestani, Randa Almaktoum, Kathryn Yochim, Meher Juttukonda, MGH Institute of Health Professions, Watertown, United States
- MT830 Age-related decline in olfactory sensitivity is related to decreased white-matter integrity**
Xin Li, Nira Cedres, Jonas Olofsson, Jonas Persson, Karolinska Institutet, Stockholm, Sweden
- MT831 Mapping Cortical Hemodynamic Changes in aging using multi-delay pCASL**
Yutong Sun, Paul T.H Chang, J. Jean Chen, Rotman Research Institute, Baycrest Health Sciences, North York, Canada
- MT832 Dynamic Brain-States of spontaneous EEG in younger and older adults**
Lucía Z Rivera, Aland Astudillo, Julio Rodino, Andre Gómez-Lombardi, Hernan Hernández Larzabal, Pamela Guevara, Wael El-Deredy, Centro Avanzado de Ingeniería Eléctrica y Electrónica, Universidad Técnica Federico Santa María, Valparaíso, Chile
- MT833 Charting Age and Sex Effects on White Matter Microstructure in 34,423 Adults Using Advanced Metrics**
Leila Nabulsi, Katherine Lawrence, Emily Laltoo, Vigneshwaran Santhalingam, Zvart Abaryan, Julio Villalon Reina, Talia Nir, Iyad Ba Gari, Alyssa Zhu, Elizabeth Haddad, Alexandra Muir, Neda Jahanshad, Paul Thompson, University of Southern California, Los Angeles, United States
- MT834 Working memory load-dependent changes in functional connectivity across the adult lifespan**
Selma Lugtmeijer, Linda Geerligs, Kamen Tsvetanov, Daniel Mitchell, Karen Campbell, Brock University, St. Catharines Central, Canada
- MT835 The effect of age on neuronal power spectra; results across 4 large datasets**
Andrew Quinn, Anna Nobre, Mark Woolrich, University of Oxford, Oxford, United Kingdom
- MT836 Age-related frontal and hippocampi vulnerability in working memory encoding and interference control**
Iris Y. Hung Hung, David Power, Yang Jiang, McGovern Institute for Brain Research, Cambridge, United States
- MT838 Individual variations in brain age: Capturing ongoing brain change or early-life differences?**
Didac Vidal-Pineiro, Yunpeng Wang, Stine Krogsrud, Inge Amlien, Kristine Walhovd, Anders Fjell, University of Oslo, Oslo, Norway
- MT839 Association of Cerebral Amyloid Angiopathy (CAA) with R2 Relaxation rate: An MRI and pathology study**
Md Tahmid Yasar, Mahir Tazwar, Ashish Tamhane, Arnold Evia, David Bennett, Julie Schneider, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States
- MT840 Transfer Learning for Cognitive Reserve Quantification**
Xi Zhu, Yi Liu, Christian Habeck, Yaakov Stern, Seonjoo Lee, Columbia University, Demarest, United States
- MT841 Effect of APOE-ε4 status and menopause stage on hippocampal atrophy in cognitively normal aging**
Tyler Wishard, Jacob Van Doorn, Pauline Maki, Beau Ances, Matthew Glasser, Michael Harms, Melissa Terpstra, Essa Yacoub, David Salat, Susan Bookheimer, UCLA, Los Angeles, United States
- MT842 Aging Effect on Caudate Function Differs Between Women and Men in Mild Cognitive Impairment**
Zhengshi Yang, Jessica Caldwell, Jeffrey Cummings, Aaron Ritter, Jefferson Kinney, Dietmar Cordes, Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States
- MT843 Significantly slower brain volume decrease with age in Tsimane compared to developed populations**
Nikhil Chaudhari, David Robles, Kenneth Rostovsky, Alexander Maher, Nahian Chowdhury, Maria Calvillo, Van Ngo, Margaret Gatz, Wendy Mack, Meng Law, Linda Sutherland, James Sutherland, Christopher Rowan, Samuel Wann, Adel Allam, Randall Thompson, David Michalik, Daniel Cummings, Edmond Seabright, Sarah Alami, Angela Garcia, Paul Hooper, Jonathan Stieglitz, Benjamin Trumble, Michael Gurven, Gregory Thomas, Caleb Finch, Hillard Kaplan, Andrei Irimia, University of Southern California, Los Angeles, United States
- MT844 Patterns of brain aging associated with an electrocardiogram index of cardiovascular activity**
Elizabeth Haddad, William Matloff, Mengting Liu, Neda Jahanshad, Hosung Kim, University of Southern California, Corona, United States
- MT845 The genetic and cellular bases of white matter microstructure in late life**
Rowena Chin, Kevin Anderson, Anastasia Yendiki, Avram Holmes, Yale University, New Haven, United States
- MT846 A unified GAN model to predict an individual's 3D brain MRI at older and younger ages**
Shruti Gadewar, Mengting Liu, Iyad Ba Gari, Alyssa Zhu, Neda Jahanshad, University of Southern California, Los Angeles, United States
- MT847 Four-year change in BOLD variability differs by task difficulty, beta-amyloid deposition, and aging**
Ekarin Pongpipat, Maria Boylan, Tzu-Chen Lung, Kristen Kennedy, Karen Rodrigue, The University of Texas at Dallas, Dallas, United States
- MT848 Differential rates of aging-related change in brain morphometrics and volumetrics across 2133 adults**
Alexander Maher, Roy Massett, Anar Amgalan, Nikhil Chaudhari, Nahian Chowdhury, Andrei Irimia, for the Alzheimer's Disease Neuroimaging Initiative, Paul Bogdan, Chenzhong Yin, University of Southern California, Los Angeles, United States
- MT849 Accelerated Aging of Brain Functional Topographic Organization in Patients with Major Mental Illness**
Wang Xiao, Chu-Chung Huang, Qing Cai, East China Normal University, Shanghai, China
- MT850 Unique and combined contribution of brain amyloid load and APOE4 Status on Brain Volume**
Christina Boyle, Christopher Ching, Sophia Thomopoulos, Matt Bernstein, Brett Borowski, Clifford Jack, Jr., Paul Thompson, USC, Marina Del Rey, United States

Early life, Adolescence, Aging

- MT851 Predicting Levels of CSF Biomarkers of Alzheimer's Disease using Cortical Thickness Measure from MRI**
Qixiang Lin, Junjie Wu, Shuai Huang, Aditya Bisht, Allan Levey, James Lah, Deqiang Qiu, Department of Neurology, School of Medicine, Emory University, Atlanta, United States
- MT852 Sex-Specific Effects of Prenatal Famine on Resting-State Functional Connectivity in the Human Brain**
Amber Boots, Moriah Thomason, Claudia Espinoza-Heredia, Patrick Pruitt, Jessica Damoiseaux, Tessa Roseboom, Susanne de Rooij, Amsterdam UMC, Amsterdam, Netherlands
- MT853 Discrimination, neural reactivity to stress, and psychological distress**
Devon Grey, Juliann Purcell, Kristen Buford, Mark Schuster, Marc Elliott, Susan Tortolero Emery, Sylvie Mrug, David Knight, University of Alabama at Birmingham, Birmingham, United States
- MT854 Early-life development of brain topology in human newborns**
Stephan Krohn, Nina von Schwandenflug, Amy Romanello, Christopher Madan, Carsten Finke, Charité Universitätsmedizin Berlin, Berlin, Germany
- MT855 Associations of prenatal exposure to maternal diabetes with brain and adiposity markers in children**
Shan Luo, Eustace Hsu, Katherine Lawrence, Shana Adise, Megan Herting, Thomas Buchanan, Katie Page, Paul Thompson, USC, Los Angeles, United States
- MT856 White matter maturation trajectories associated with autistic traits in adolescents**
Anthony Latrille, Ruben Miranda, H  l  ne Vulser, Tobias Banaschewski, Gareth J. Barker, Arun L.W. Bokde, Sylvane Desriv  res, Herta Flor, Antoine Grigis, Hugh Garavan, Penny Gowland, Andreas Heinz, R  diger Br  hl, Jean-Luc Martinot, Eric Artiges, Frauke Nees, Dimitri Papadopoulos Orfanos, Tom  s Paus, Luise Poustka, Juliane Fr  hner, Lauren Robinson, Michael N. Smolka, Henrik Walter, Jeanne Winterer, Robert Whelan, Gunter Schumann, Herve Lemaitre, Institut des Maladies Neurod  g  neratives, CNRS UMR 5293, Universit   de bordeaux, Bordeaux, France
- MT857 Developmental pattern of association fibers and their interaction with associated cortex**
Tingting Liu, Yuqing You, Zhiyong Zhao, Zuozhen Cao, Mingyang Li, Ruike Chen, Ying Lv, Mingyan Li, Fusheng Gao, Jiani Wu, Hongxi Zhang, Chai Ji, Dan Wu, Zhejiang University, Hangzhou, China
- MT858* Postnatal experience promotes the thickening but not myelination of the neonatal visual cortex**
Mingyang Li, Tingting Liu, Xinyi Xu, Qingqing Wen, Zhiyong Zhao, Yi Zhang, Dan Wu, College of Biomedical Engineering & Instrument Science, Zhejiang University, Hangzhou, China
- MT859 Developmental reduction of the excitation:inhibition ratio in association cortex during adolescence**
Bart Larsen, Zaixu Cui, Azeez Adebimpe, Adam Pines, Aaron Alexander-Bloch, Max Bertolero, Monica Calkins, Ruben Gur, Raquel Gur, Arun Mahadevan, Tyler Moore, David Roalf, Jakob Seidlitz, Valerie Sydnor, Daniel Wolf, Theodore Satterthwaite, University of Pennsylvania, Pennsylvania, United States
- MT860 Gradients of Functional Connectivity Across the Human Lifespan**
Hoyt Taylor, Sahar Ahmad, Kimhan Thung, Zhengwang Wu, Gang Li, Li Wang, Weili Lin, Pew-Thian Yap, University of North Carolina at Chapel Hill, Chapel Hill, United States
- MT861 Associations between brain volumes and future general cognitive ability in infancy and childhood**
Francesca Biondo, Jonathan O'Muircheartaigh, Elizabeth Weisse, Maximilian Pietsch, Sian Wilson, Kristofer Bouchard, Sylvia Madhow, Viren D'Sa, Andre Marquand, Sean Deoni, Muriel Bruchhage, James Cole, UCL, London, United Kingdom
- MT862 Diminished Development of Risk Learning in Adolescence Associated with Increased Risk-Taking**
John Wang, Zhuoya Cui, Vanessa Brown, Alec Solway, Lusha Zhu, Jungmeen Kim-Spoon, Pearl Chiu, Brooks King-Casas, Virginia Tech, Roanoke, United States
- MT863 Reduction in Total Hippocampal Volume in Intrauterine Growth-Restricted Baboons**
Justin Mehl, Wei Zhang, Peter T. Fox, Jinqi Li, Peter Nathanielsz, Geoffrey Clarke, UT Health San Antonio, San Antonio, United States
- MT864 Benchmarking the Generalizability of Brain Age Models Using Diverse Pediatric Samples**
Robert Jirsaraie, Tobias Kaufmann, Vishnu Bashyam, Guray Erus, Joan Luby, Lars Westlye, Christos Davatzikos, Deanna Barch, Aristeidis Sotiras, Washington University in St. Louis, Saint Louis, United States
- MT865 Paternal care affects left superior parietal lobule gray matter volume in healthy adult offsprings**
Raditzia Ekayantri, Yasuko Tatewaki, Izumi Matsudaira, Hikaru Takeuchi, Ryuta Kawashima, Yasuyuki Taki, Tohoku University, Sendai, Japan
- MT866 Altered Developmental Trajectories of Brain Signal Variability in Autism**
Priyanka Jaipal Sigar, Nicholas Kathrein, Lucina Uddin, Jason Nomi, University of California Los Angeles, Los Angeles, United States
- MT867 Interactive effects of e-cigarette and cannabis use on neural reactivity among adolescent dual-users**
Daniel Freimer, Justin Yuan, Namasvi Jariwala, Benjamin Sipes, Duan Xu, Tony Yang, Olga Tymofiyeva, University of California, San Francisco, San Francisco, United States
- MT868 The development of biomarkers for predicting response to tDCS in neurotypical controls**
Caroline Mann, Maike Splittgerber, Oula Puonti, Julia Siemann, Christina Luckhardt, Helena C. Pereira, Joana Amaral, Joana Crisostomo, Daniela Sousa, Astrid Dempfle, Kerstin Krauel, Christoph Borzikowsky, Hannah Brauer, Alexander Prehn-Kristensen, Carolin Breitling-Ziegler, Miguel Castello-Branco, Ricardo Salvador, Vera Moliadze, Michael Siniatchkin, Axel Thielscher, Christine M. Freitag, Christine Ecker, Goethe University Frankfurt, Frankfurt, Germany
- MT869 Tracing the developmental origins of population-level asymmetry of the cerebral cortex**
James Roe, Didac Vidal-Pi  neiro, Inge Amlien, Mengyu Pan, Markus Sneve, Michel Thiebaut de Schotten, Patrick Friedrich, Zhiqiang Sha, Clyde Francks, Yunpeng Wang, Kristine Walhovd, Anders Fjell, Ren   Westerhausen, University of Oslo, Oslo, Norway
- MT870 Relationships Between Apparent Cortical Thickness and Working Memory Across the Lifespan**
Stine Krogsrud, Athanasia Mowinckel, Donatas Sederevicius, Didac Vidal-Pineiro, Inge Amlien, Yunpeng Wang, Øystein Sørensen, Kristine Walhovd, Anders Fjell, University of Oslo, Oslo, Norway
- MT871 Heritability of longitudinal neuroimaging traits in the Adolescent Brain Cognitive Development study**
Si Gao, Kathryn Hatch, Alesandro Russo, Neda Jahanshad, Paul Thompson, Yizhou Ma, Peter Kochunov, Maryland Psychiatric Research Center, Catonsville, United States

- MT872 Charting the lifespan of human brain morphology across 101,457 individuals**
Jakob Seidlitz, Richard A.I. Bethlehem, Simon White, BrainChart Consortium*, Edward T. Bullmore, Aaron Alexander-Bloch, University of Pennsylvania, Kensington, United States
- MT873 Dissociable Multi-scale Patterns of Development in Personalized Brain Networks**
Adam Pines, Bart Larsen, Zaixu Cui, Valerie Sydnor, Maxwell Bertolero, Azeez Adebimpe, Aaron Alexander-Bloch, Christos Davatzikos, Damien Fair, Ruben Gur, Raquel Gur, Hongming Li, Michael Milham, Tyler Moore, Kristin Murtha, Linden Parkes, Sharon Thompson-Schill, Sheila Shanmugan, Russell Shinohara, Sarah Weinstein, Danielle Bassett, Yong Fan, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States
- MT874 Negative Events and the Development of the Orbitofrontal Cortex Independently Affect Depression**
Lea Backhausen, Jonas Granzow, Juliane Fröhner, Jean-Luc Martinot, Marie-Laure Paillère Martinot, Eric Artiges, Michael N. Smolka, Nora Vetter, Faculty of Medicine of the Technische Universität Dresden, Dresden, Germany
- MT875 Structural connectivity-based segmentation of the thalamus in perinatal stroke**
Mitali Pradhan, Brandon Craig, Alicia Hilderley, Adam Kirton, Helen Carlson, University of Calgary, Calgary, Canada
- MT876 Cortical Hierarchy in the Infant Brain Revealed by a Large-scale Neural Circuit Model**
Guoshi Li, Hoyt Taylor, Ye Wu, Sahar Ahmad, Kimhan Thung, Zhengwang Wu, Gang Li, Li Wang, Weili Lin, Pew-Thian Yap, University of North Carolina at Chapel Hill, Chapel Hill, United States
- MT877 Brain states in early life: a study of neonatal dynamic functional connectivity**
Lucas Souza Franca, Sean Fitzgibbon, Judit Ciarrusta, Sunniva Fenn-Moltu, Ralica Dimitrova, Oliver Gale-Grant, Lucilio Cordero-Grande, Anthony Price, Emer Hughes, Jonathan O'Muircheartaigh, Eugene Duff, Serena Counsell, Joseph V. Hajnal, Tomoki Arichi, A David Edwards, Grainne McAlonan, Dafnis Batalle, King's College London, London, United Kingdom
- MT878 Access to quality education and healthy environments relate to brain structure and BMI in youth**
Shana Adise, Andrew Marshall, Eric Kan, Marybel Gonzalez, Samantha Betts, David Johnson, Elizabeth Sowell, Children's Hospital of Los Angeles, Los Angeles, United States
- MT879 Education and White Matter, Not Childhood Adversity, Predict Brain Aging**
Layla Banihashemi, Helmet Karim, University of Pittsburgh, Pittsburgh, United States
- MT880 Effects of children's screen time activity on their mental health and brain structure in ABCD**
Marco Bottino, Gianluca Mastrantonio, Paul Thompson, Neda Jahanshad, Fabrizio Pizzagalli, Politecnico di Torino, Department of Mathematical Sciences "Giuseppe Luigi Lagrange", Torino, Italy
- MT881 MR Spectroscopy investigation of brain metabolites in high school football and soccer players**
Antonia Susnjar, Gianna Nossa, Joseph Rispoli, Purdue University, West Lafayette, United States
- MT882 Unfolding the human hippocampal lifespan: changes in morphology and functional connectivity**
Jordan DeKraker, Roy Haast, Mohamed Yousif, Reinder Vos de Wael, Boris Bernhardt, Ali Khan, McGill University, Montreal, Canada
- MT883 Discovery and Replication of Time-Varying Functional Connectivity Differences in Adolescence**
Anees Abrol, Vince Calhoun, GSU/GATech/Emory Center for Translational Research in Neuroimaging and Data Science (TRENDS), Atlanta, United States
- MT884 Altered developmental trajectories of cortical surface area and folding in fetuses of obese mothers**
Hyun Ju Lee, Hyuk Jin Yun, Joo Young Lee, Caitlin Rollins, Cynthia Ortinau, P Ellen Grant, Kiho Im, Hanyang University College of Medicine, Boston, United States
- MT885 Brain Network Redundancy Across the Human Lifespan**
Maryam Ghanbari, Guoshi Li, Hoyt Taylor, Sahar Ahmad, Kim-Han Thung, Zhengwang Wu, Gang Li, Li Wang, Weili Lin, Pew-Thian Yap, University of North Carolina at Chapel Hill, Chapel Hill, United States
- MT886 Precision dynamical mapping reveals a hub-like transition state at rest in children: an ABCD study**
Manish Saggari, Oscar Miranda-Dominguez, Eric Feczko, Amanda Rueter, Timothy Hendrickson, Audrey Houghton, Anders Perrone, Nora Byington, Damien Fair, Stanford University, Stanford, United States
- MT887 Evolution of Cortical Microstructure Across the Human Lifespan**
Khoi Huynh, Sahar Ahmad, Kim-Han Thung, Zhengwang Wu, Weili Lin, Li Wang, Gang Li, Pew-Thian Yap, UNC Chapel Hill, Chapel Hill, United States
- MT888 Perivascular space morphology across the lifespan**
Kirsten Lynch, Farshid Seppehrband, Arthur Toga, Jeiran Choupan, University of Southern California, Los Angeles, United States
- MT889 Theta Responses to Social Face-to-Face Interaction at 20-wks of Age Predicts Future Language Growth**
Alexis Bosseler, Steven Bierer, Eric Larson, Samu Taulu, Andrew Meltzoff, Patricia Kuhl, University of Washington, Seattle, United States
- MT890 The Impact of Early Life Stress on the Genetic Influence on Brain and Cognitive Development in Child**
Hee-Hwan Wang, Seo-Yoon Moon, Yoonjung Joo, Jiook Cha, Seoul National University, Seoul, Korea, Republic of

Normal Brain Development: Fetus to Adolescence

- MT901 The developmental role of thalamocortical connectivity in neocortical functional specialization**
Shinwon Park, Hanbyul Cho, Kyoungseob Byeon, Boris Bernhardt, Adriana Di Martino, Michael Milham, Seok-Jun Hong, Center for Neuroscience Imaging Research, Institute for Basic Science, Suwon, Korea, Republic of
- MT902 The midpoint of cortical thinning in adolescence differs across individuals and brain regions**
Delia Fuhrmann, Kathrine Skak Madsen, William Frans Christiaan Baaré, Rogier Kievit, King's College London, London, United Kingdom
- MT903* Developmental Refinement of Spontaneous Activity Varies Across Sensorimotor and Association Cortices**
Valerie Sydnor, Bart Larsen, Azeez Adebimpe, Maxwell Bertolero, Matthew Cieslak, Sydney Covitz, Yong Fan, Raquel Gur, Ruben Gur, David Roalf, Russell Shinohara, Dani Bassett, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States
- MT904 Brain structure-function decoupling relates to cognitive flexibility in preschool children**
Xing Qian, Marcus Qin Wen Ong, Shayne Siok Peng Yeo, Zhen Ming Ngoh, Ranjani Nadarajan, Evelyn Chung Ning Law, Ai Peng Tan, Yap-Seng Chong, Anne Rifkin-Graboi, Michael Meaney, Juan Helen Zhou, NUS, Singapore, Singapore

- MT905 Variational autoencoder-based representations of fetal and neonatal resting state networks**
Jung-Hoon Kim, Josepheen De Asis-Cruz, Dhineshvikram Krishnamurthy, Kushal Kapse, Nicole Andersen, Catherine Limperopoulos, Children's National Medical Center, Washington, United States
- MT906 Linked development of diffusion, NODDI, and functional connectivity measures through early childhood**
Kathryn Manning, Jess Reynolds, Bryce Geeraert, Xiangyu Long, Alberto Llera, Catherine Lebel, University of Calgary, Calgary, Canada
- MT907 Along-tract differential development of fiber cross-section and density in early childhood**
Dennis Dimond, Thijs Dhollander, Ryann Tansey, Kirk Graff, Christiane Rohr, Shelly Yin, Robert Smith, Catherine Lebel, Deborah Dewey, Alan Connelly, Signe Bray, University of Calgary, Calgary, Canada
- MT908 Spatiotemporal T2 fetal brain atlas depicts cortical developmental patterns in a Chinese population**
Xinyi Xu, Jiwei Sun, Wen Shi, Yao Shen, Ruoke Zhao, Wanrong Luo, Cong Sun, Ruike Chen, Mingyang Li, Yi-Cheng Hsu, Yi Sun, Yi Zhang, Guangbin Wang, Dan Wu, Zhejiang university, Hangzhou, China
- MT909 Dynamic functional connectivity centrality in the neonatal brain**
Sunniva Fenn-Moltu, Sean Fitzgibbon, Judit Ciarrusta, Michael Eyre, Lucilio Cordero-Grande, Oliver Gale-Grant, Lucas Souza Franca, Nicholas Harper, Ralica Dimitrova, Anthony Price, Emer Hughes, Jonathan O'Muircheartaigh, Tomoki Arichi, Serena Counsell, Joseph V. Hajnal, A David Edwards, Grainne McAlonan, Dafnis Batalle, King's College London, London, United Kingdom
- MT910 Temperament in Infancy Predict Brain Functional Network Connectivity in Childhood**
Donglin Shi, Xiaoxin Hao, Wenwen Xu, Mengdi Hua, Jie Shao, Yuzheng Hu, Fengji Geng, College of Education, Zhejiang University, Hangzhou, China
- MT911 Spatiotemporal differences in preterm infants' bundles are linked to slower ex utero myelination**
Mareike Grotheer, David Bloom, John Kruper, Manjari Narayan, Adam Richie-Halford, Vicente Aguilera González, Jason Yeatman, Kalanit Grill-Spector, Ariel Rokem, Philipps-Universität Marburg, Marburg, Germany
- MT912 Differential development of microstructural properties of human cortex from childhood to adulthood**
Vaidehi Natu, Marisa Nordt, Emily Kubota, Alex Rezai, Holly Kular, Dawn Finzi, Jesse Gomez, Kalanit Grill-Spector, Stanford University, Stanford, United States
- MT913 Trajectories of gray matter development relate to maternal education in children aged 2-8 years**
Madison Long, Curtis Ostertag, Jess Reynolds, Jing Zheng, Bennett Landman, Yuankai Huo, Catherine Lebel, University of Calgary, Calgary, Canada
- MT914 Brain function across early childhood: age-specific patterns or increasingly reliable?**
Ryann Tansey, Kirk Graff, Christiane Rohr, Dennis Dimond, Amanda Ip, Shelly Yin, Deborah Dewey, Signe Bray, University of Calgary, Calgary, Canada
- MT915 Topological Data Analysis differentiates term and premature infants at term-equivalent age**
Nelsiyamid López Guerrero, Juan Carlos Díaz-Patiño, Isaac Arelio, Sarael Alcauter, Instituto de Neurobiología, Universidad Nacional Autónoma de México, Querétaro, Mexico
- MT916 Decode age-specific developing patterns in brain functional connectivity during adolescence**
Aiyang Zhang, Seonjoo Lee, Columbia University, New York, United States
- MT917 Fetal brain anatomical development converges on neonatal functional resting state networks**
Sian Wilson, Alena Uus, Maximilian Pietsch, Vanessa Kyriakopoulou, Antonios Makropoulos, Lucilio Cordero-Grande, Anthony Price, Slava Karolis, Maria Deprez, Mary Rutherford, Joseph V. Hajnal, A David Edwards, Jonathan O'Muircheartaigh, Tomoki Arichi, Centre for the Developing Brain, Department of Perinatal Imaging and Health, King's College London, London, United Kingdom
- MT918 Maturation axes of perinatal macroscale cortical thickness covariance**
Sofie Valk, Logan Williams, A David Edwards, Emma Robinson, Max Planck Institute for Human and Cognitive Brain Sciences, Leipzig, Germany
- MT919 Hippocampal subfield development in preterm and term-born neonates**
Emily Nichols, Ali Khan, Emma Duerden, Western University, London, Canada
- MT920 COVID-19 in pregnancy and infant brain dynamics at 1 year: a pilot resting-state CAP analysis**
Lanxin Ji, Aymn Majbri, Moriah Thomason, Cassandra Hendrix, New York University Medical Center, New York, United States
- MT921 Structural Brain Development Across Early Childhood in Reading and Language Regions**
Curtis Ostertag, Madison Long, Jess Reynolds, Deborah Dewey, Bennett Landman, Yuankai Huo, Catherine Lebel, University of Calgary, Edmonton, Canada
- MT922 Intrinsic timescales in the infant brain measured with fMRI and EEG**
Anna Truzzi, Josué Rico-Picó, M. Rosario Rueda, Rhodri Cusack, Trinity College Dublin, Dublin, Ireland
- MT923 Epigenetic Regulation of Longitudinal Grey Matter Development in the Adolescent Brain**
Dawn Jensen, Jiayu Chen, Jessica Turner, Julia Stephen, Yu-Ping Wang, Tony Wilson, Vince Calhoun, Jingyu Liu, Georgia State University, Atlanta, United States
- MT924 Comparing Infant Hemodynamic Response Using an Odor Task**
Sarah Reeser, Allegra Johnson, Swati Rane-Levendovsky, Stephen Dager, Natalia Kleinhans, University of Washington, Seattle, United States
- MT925* Association between placental oxygen transport and cerebral cortical growth in fetal brains**
Kihoo Im, Hyuk Jin Yun, Carolina Bibbo, Cindy Zhou, Rubii Tamen, Esra Turk, P Ellen Grant, Harvard Medical School, Boston Children's Hospital, Boston, United States
- MT926 A Three-way Link of Changes in Methylation-Gray Matter-Cognition in Typically Developing Children**
Jiayu Chen, Dawn Jensen, Julia Stephen, Yu-Ping Wang, Tony Wilson, Jessica A. Turner, Jingyu Liu, Vince Calhoun, Tri-institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, United States
- MT927 Heritable template underlies reliable idiosyncrasies in fine-scale connectomes during development**
Erica Busch, Kristina Rapuano, Kevin Anderson, Monica Rosenberg, Richard Watts, BJ Casey, James Haxby, Ma Feilong, Yale University, New Haven, United States
- MT928 Constancy of sex differences during dynamic adolescent development of morphometric networks**
Lena Dorfschmidt, Richard Bethlehem, Rafael Romero-Garcia, Jakob Seidlitz, František Váša, Petra Vertes, Edward T. Bullmore, University of Cambridge, Cambridge, United Kingdom

MT929 Individual variability in structural brain development with respect to sex and puberty
Katherine Bottenhorn, Megan Herting, University of Southern California, Los Angeles, United States

Lifespan Development Other

MT891 Parenthood affects age-related alterations of whole-brain controllability
Birgit Derntl, Tim Hahn, Nils Winter, Erfan Nozari, Jan Ernsting, Susanne Meinert, Elisabeth Leehr, Marius Gruber, Marco Mauritz, Katharina Koch, Julia-Katharina Pfarr, Jochen Bauer, Frederike Stein, Florian Thomas-Odenthal, Katharina Brosch, Jonathan Repple, Tobias Kaufmann, Igor Nenadic, Tilo Kircher, Udo Dannlowski, Hamidreza Jamalabadi, University of Tübingen, Tübingen, Germany

MT892 Localized sex differences in anatomical brain-age estimates
Nicole Sanford, Ruiyang Ge, Sophia Frangou, University of British Columbia, Vancouver, Canada

MT893 DTGA adults show persistent brain abnormalities as well as decreased global and regional volumes
Jee Won Kang, Borjan Gagoski, Johanna Calderon, Valerie Rofeberg, Jane Newburger, Michelle Gurvitz, P Ellen Grant, Ai Wern Chung, Fetal and Neonatal Neuroimaging Developmental Science Center, Boston Children's Hospital, Boston, United States

MT894 Optimizing Normative Models for Regional Subcortical Volumes
Ruiyang Ge, Yuetong Yu, Yunan Fan, Yi Xuan Qi, Faye New, Paul Thompson, Sophia Frangou, University of British Columbia, Vancouver, Canada

MT895 Effective Connectivity differences between Postpartum Mothers and Non-Mothers, a spDCM study
Edwina Orchard, Katharina Voigt, Sidhant Chopra, Tribikram Thapa, Phillip Ward, Gary Egan, Sharna Jamadar, Monash University, Melbourne, Australia

MT896 Metastability of resting networks in BOLD signal across the adult lifespan
Lijing Niu, Qian Li, Lanxin Peng, Jixin Long, Xiaoqi Song, Chanyu Wang, Ruibin Zhang, Southern Medical University, Guangzhou, China

MT897 Brain growth dynamics in childhood and adolescence after a neonatal stroke: a longitudinal MRI study
Pierre-Yves Postic, Soraya Brosset, Inès Ben Abdallah, Cyrille Renaud, Gaëlle Mediouni, Stéphane Chabrier, Mickael Dinomais, Yann Leprince, Lucie Hertz-Pannier, CEA Neurospin, Gif-sur-Yvette, France

MT898* Multivariate Analysis of Cortical Morphometry across Human Brain Development
Hadis Kalantar Hormozi, Gabriel A. Devenyi, Raihaan Patel, Alyssa Dai, Armin Raznahan, Mallar Chakravarty, Douglas mental health University institute- McGill university, Montreal, Canada

MT899 Comparative analysis of Chinchorro mummies Intracranial volume
Gonzalo Rojas, Yanis Valenzuela, Verónica Silva-Pinto, Jaime Cisternas, María de la Iglesia-Vayá, José Molina-Mateo, Marcelo Gálvez, Clínica las Condes, Santiago, Chile

MT900 Relationships between brain functional connectivity and behavior across lifespan in Wistar rats
Erika Gonzalez, Juan Ortiz-Retana, Raúl Rodríguez-Cruces, Deisy Gasca-Martinez, Sarael Alcauter, UNAM, Queretaro, Mexico

MODELING AND ANALYSIS METHODS

Activation (eg. BOLD task-fMRI)

- WTh001 Orthogonalization of multi-echo ICA components in motor-task fMRI analysis**
Neha Reddy, Rachael Stickland, Kristina Zvolanek, Kimberly Hemmerling, Stefano Moia, César Caballero-Gaudes, Molly Bright, Northwestern University, Chicago, United States
- WTh002 The Social Brain: Domain-general contributions to decision making?**
Claire Lugin, Arkady Kononov, Christian Ruff, University of Zurich, Zurich, Switzerland
- WTh003 Association of social support with limbic activity in individuals with childhood maltreatment**
Tiana Borgers, Anne Rinck, Verena Enneking, Melissa Klug, Udo Dannlowski, Ronny Redlich, Institute for Translational Psychiatry, University of Münster, Münster, Germany
- WTh004 TMS and fMRI based localization of the attention network**
Ying Jing, Ole Numssen, Konstantin Weise, Anna-Leah Zier, Gesa Hartwigsen, Thomas Knoesche, MPI, Leipzig, Germany
- WTh005 Perceived choice mediates striatal Bayesian estimates of self-belief and mood in adolescents**
Liana Romaniuk, Niamh MacSweeney, Miruna Barbu, Heather Whalley, University of Edinburgh, Edinburgh, United Kingdom
- WTh006 Greater Transition Energy Between Brain States is Associated With Disability in MS**
Ceren Tozlu, Sophie Card, Keith Jamison, Susan Gauthier, Amy Kuceyeski, Weill Cornell Medicine, New York, United States
- WTh007 Analysis of functional connectivity dynamics in a spatially-heterogeneous large-scale circuit model**
Xiaolu Kong, Shaoshi Zhang, Peng Wang, Martijn van den Heuvel, Gustavo Deco, Thomas Yeo, National University of Singapore, Singapore, Singapore
- WTh008 Spatially localized fMRI metrics as predictive highly distinct state-independent fingerprints**
Daouia Larabi, Martin Gell, Enrico Amico, Simon Eickhoff, Kaustubh R. Patil, Forschungszentrum Jülich, Jülich, Germany
- WTh009 Differences between 2-dimensional and 3-dimensional conceptual space: evidence in brain activations**
Yuanqi Cai, Yidan Qiu, Kemeng Chen, Chuchu Jia, Yuanyuan Yang, Xiaoqian Jiang, Zhuozhuo Shen, Ruiwang Huang, School of Psychology, Key Laboratory of Brain, South China Normal University, Guangzhou, China, Guangzhou, China
- WTh010 Modeling Heart Rate into the Imaging-stress-task reveals anterior Hippocampus and Amygdala activity**
Mira Erhart, Anne Kuehnel, Tanja Brueckl, Julia Fietz, Dorothee Poehlchen, Natan Yusupov, BeCOME working group, Michael Czisch, Elisabeth Binder, Philipp Sämann, Victor Spoomaker, Max-Planck-Institute of Psychiatry, Holzkirchen, Germany
- WTh011 Idiosyncratic brain activity topographies during naturalistic viewing predicts individual traits**
Xuan Li, Patrick Friedrich, Kaustubh Patil, Simon Eickhoff, Susanne Weis, Institute of Neuroscience and Medicine (INM-7), Research Centre Jülich, Jülich, Germany, Jülich, Germany
- WTh012 Possible use of oculomotor functions evaluation in the diagnosis of mTBI: a pilot study using fMRI**
Ekaterina Lunkova, Alain Ptito, Rajeet Saluja, McGill University, Montreal, Canada

- WTh013 Association between Brain Activities and Originality in Alternative Uses Tasks**
Po-Hsien Lee, Hong-Yi Wu, Chi-Yun Liu, Chih-Mao Huang, Changwei Wu, Taipei Medical University, Taipei, Taiwan
- WTh014 Predictors of adolescent drug use: Working memory-related PCC deactivation and cognitive failures**
Lauren Hill-Bowen, Michael Riedel, Jessica Flannery, Patricio Viera Perez, Katharine Crooks, Benjelene Sutherland, Sarah Hartmann, Angela Laird, Elisa Trucco, Matthew Sutherland, Florida International University, Miami, United States
- WTh015 Implicit Priming Alters Brain and Behavioral Responses to High-Calorie Foods**
Kristina Legget, Marc-Andre Cornier, Christina Erpelding, Benjamin Lawful, Joshua Bear, Eugene Kronberg, Jason Tregellas, University of Colorado Anschutz Medical Campus, Aurora, United States
- WTh016 Resting-state fMRI of lumbar spine: subject-specific dynamic functional connectivity**
Ilaria Ricchi, Nawal Kinany, Dimitri Van De Ville, EPFL, Ecublens, Switzerland
- WTh017 Effect of denoising methods on reliability and reproducibility of task and resting-state fMRI**
Matthew Wall, Natalie Ertl, Martha Cottam, Lysia Demetriou, Jungjoon Lee, Zixu Yang, Daniel Solomons, Imperial College, London, United Kingdom
- WTh018 Quantitative evaluation of human visual areas' noninvasively delineated using a rapid fMRI protocol**
Gaëlle Nicolas, Louise Kauffmann, Emmanuelle Kristensen, Nathalie Guyader, Anne Guerin-Dugué, Michel Dojat, UGA, Saint-Martin-d'Hères, France
- WTh019 The influence of gender identity and sexual orientation on voice-gender perception**
Sarah Friedrich, Philippa Hüpen, Melina Grahlow, Carolin Lewis, Birgit Derntl, Edward Brodtkin, Ute Habel, Forschungszentrum Jülich, Aachen, Germany
- WTh020 A Critical Note on the Right Hemispheric Dominance of the Face Perception Network**
Ina Thome, Jannika Volk, José García Alanis, Christoph Vogelbacher, Olaf Steinträter, Andreas Jansen, University of Marburg, Marburg, Germany
- WTh021 An fMRI Study on Social Rejection Effect from Robot Agent**
Yoo Sole, Jiseon Baik, Hae-Jeong Park, Yonsei University, Seodaemun-gu, Korea, Republic of
- WTh022 FMRI region- and network-analysis of top-down modulation of bottom-up auditory processes**
Katarzyna Kazimierzczak, Alexander Craven, Lars Erslad, Karsten Specht, Magda Dumitru, Lydia Sandøy, Kenneth Hugdahl, University of Bergen, Bergen, Norway
- WTh023 Individuals with mild to moderate traumatic brain injury exhibit altered brain dynamics compared to**
Nate Roy, Parker Singleton, Keith Jamison, Pratik Mukherjee, Sudhin Shah, Amy Kuceyeski, Cornell University, Ithaca, United States
- WTh024 Smoothing-level optimization in task-fMRI data analysis**
Xiaowei Zhuang, Zhengshi Yang, Tim Curran, Rajesh Nandy, Mark Lowe, Dietmar Cordes, Cleveland Clinic, Las Vegas, United States
- WTh025 A global spatially-adaptive task fMRI activation analysis method with alleviated spatial blurring**
Zhengshi Yang, Xiaowei Zhuang, Mark Lowe, Dietmar Cordes, Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States

- WTh026 Event-related analysis of brain activity during video-game play guided by game content**
Yann Harel, André Cyr, Basile Pinsard, Paul-Henri Mignot, Maximilien Le Clei, Julie Boyle, Karim Jerbi, Pierre Bellec, Université de Montréal, Montréal, Canada
- WTh027 An Anatomical and Functional Atlas of Task-Based Brain Networks Detectable by fMRI**
Todd Woodward, Chantal Percival, Hafsa Zahid, University of British Columbia, Vancouver, Canada
- WTh028 Comparison of ME-ICA fMRI preprocessing on task activation in the ascending arousal network**
Sarah Goodale, Bohan Jiang, Difan Yang, Jen Evans, Jacco de Zwart, Pinar Ozbay, Dante Picchioni, Jeff Duyn, Victoria Morgan, Dario Englot, Catie Chang, Vanderbilt University, Nashville, United States

Bayesian Modeling

- WTh029 The Extremes of Normative Modeling**
Charlotte Frazz, Richard Dinga, Christian Beckmann, Andre Marquand, Donders Institute for Brain, Cognition and Behavior, Radboud University Nijmegen, Nijmegen, the Neth, Utrecht, Netherlands
- WTh030 Inferring neural mass models parameters from EEG with hierarchical neural posterior estimation**
Pedro L. C. Rodrigues, Thomas Moreau, Julia Linhart, Gilles Louppe, Alexandre Gramfort, Inria, Grenoble, France
- WTh031 Does the cluster thresholding strategy waste too much information?**
Gang Chen, Paul Taylor, Joel Stoddard, Robert Cox, Peter Bandettini, Luiz Pessoa, National Institutes of Health, Bethesda, United States
- WTh032 Sample size determination with Hierarchical Bayesian models in fMRI region of interest analysis**
Harrison Curtis, Etienne Roesch, University of Reading, Reading, United Kingdom
- WTh033 3D Spatio-Temporal variable selection bayesian model with estimated HRF for fMRI time serie analysis**
Nasrin Borumandnia, Hamid Alavimajd, Shaheed Beheshti University of Medical Science, Tehran, Iran, Islamic Republic of
- WTh034 Hierarchical Model-based sampling approaches to joint modelling**
Reilly Innes, Niek Stevenson, Steven Miletić, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh035 Fully Bayesian Inference for MRI Scanner Harmonization**
Maxwell Reynolds, Kayhan Batmanghelich, University of Pittsburgh, Pittsburgh, United States
- WTh036 Bayesian Bootstrap Uncertainty Quantification for Spatial Lesion Regression Modelling**
Anna Menacher, Thomas Nichols, Habib Ganjgahi, University of Oxford, Oxford, United Kingdom

Classification and Predictive Modeling

- WTh037 Intracranial Volume Correction Differentially Biases Brain-Behavior Predictions Across Populations**
Elvisha Dhamala, Leon Qi Rong Ooi, Jianzhong Chen, Ruby Kong, Kevin Anderson, Rowena Chin, B.T. Thomas Yeo, Avram Holmes, Yale University, New Haven, United States

- WTh038** **Combination of structural and functional connectivity explains unique variation in specific domains**
Marta Czime Litwińczuk, Nelson Trujillo-Barreto, Nils Muhlert, Lauren Cloutman, Anna Woollams, University of Manchester, Manchester, United Kingdom
- WTh039*** **Brain-age prediction: a systematic comparison of machine learning workflows**
Shammi More, Georgios Antonoupoulos, Felix Hoffstaedter, Julian Caspers, Simon Eickhoff, Kaustubh Patil, Forschungszentrum Jülich, Jülich, Germany
- WTh040** **Decoding across subjects with deep transfer learning**
Richard Csaky, Mark Woolrich, Oiwi Jones, University of Oxford, Oxford, United Kingdom
- WTh041** **Predicting cognitive performance of children with perinatally-acquired HIV using multimodal MRI**
Isaac Khobo, Marcin Jankiewicz, Martha Holmes, Francesca Little, Mark Cotton, Barbara Laughton, Kaylee van Wyhe, Andre van der Kouwe, Allison Moreau, Emmanuel Nwosu, Ernesta Meintjes, Frances Robertson, University of Cape Town, Cape Town, South Africa
- WTh042** **Benchmarking Machine Learning Autism Classifiers in the ABIDE Dataset**
Yilan Dong, Dafnis Bataille, Maria Deprez, King's College London, London, United Kingdom
- WTh043** **PHOTONAI Neuro — A Python Toolbox for Machine Learning in Multimodal Neuroimaging**
Kelvin Sarink, Ramona Leenings, Nils Winter, Lucas Plagwitz, Jan Ernsting, Lukas Fisch, Carlotta Barkhau, Daniel Emden, Udo Dannlowski, Tim Hahn, Institute for Translational Psychiatry, University of Münster, Münster, Germany
- WTh044** **Are Robots Sociopaths? A Neuroscientific Approach to the Alignment Problem in AI**
Leonardo Christov-Moore, Anthony Vaccaro, Nicco Reggente, Felix Schoeller, Pamela Douglas, Marco Iacoboni, Jonas Kaplan, University of Southern California, Los Angeles, United States
- WTh045** **Upscaling the Conditional Randomization Test to Extremely High-Dimensional Logistic Regression**
Binh Nguyen, Bertrand Thirion, Sylvain Arlot, INRIA Saclay, Malakoff, France
- WTh046** **Behavior measures are predicted by how information is encoded in an individual's brain**
Jennifer Williams, Leila Wehbe, Carnegie Mellon University, Pittsburgh, United States
- WTh047** **Multi-task representations in human cortex transform along a sensory-to-motor hierarchy**
Takuya Ito, John Murray, Yale University, New Haven, United States
- WTh048** **Deep Learning on Imaging Genetics for Schizophrenia Classification**
Hongkun Yu, Thomas Florian, Vince Calhoun, Dong Hye Ye, Marquette University, Milwaukee, United States
- WTh049** **Statistical quantification of confounding bias in neuroimaging-based predictive models**
Tamas Spisak, University Hospital Essen, Essen, Germany
- WTh050** **BrainViz: a Novel Web Interface for Data-Driven Clinical Decision Support**
Bradley Baker, Mustafa Salman, Maria Misiura, H. Jeremy Bockholt, Eric Verner, Vince Calhoun, Tri-Institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, United States
- WTh051** **Control for brain volume in biological sex classification of cisgender and transgender individuals**
Susanne Weis, Lisa Wiersch, Sami Hamdan, Felix Hoffstaedter, Mikhail Votinov, Ute Habel, Benjamin Clemens, Birgit Derntl, Simon Eickhoff, Kaustubh R. Patil, Research Centre Jülich, Jülich, Germany
- WTh052** **Transfer learning of deep neural networks using the Human Connectome Project fMRI data**
Jun-Dong Hwang, Niv Lustig, Wangwon Lee, Minyoung Jung, Jong-Hwan Lee, Korea University, Seoul, Korea, Republic of
- WTh053** **Latent space representation of task-fMRI with semi-supervised Autoencoder**
Mariam Zabihi, Christian Beckmann, Andre Marquand, Donders Institute; Radboud University Medical Center, Nijmegen, Netherlands
- WTh054** **Predicting cortical change in Alzheimer's Disease and Frontotemporal Dementia**
Agnès Pérez-Millan, José Contador, Raúl Tudela, Aida Niñerola-Baizán, Neus Falgàs, Núria Bargalló, Mircea Balasa, Albert Lladó, Raquel Sanchez-Valle, Roser Sala-Llonch, Universitat de Barcelona, Barcelona, Spain
- WTh055** **Bringing Explainability to the automatic Classification of Parkinson's disease and SWEDD**
Alessia Sarica, Andrea Quattrone, Aldo Quattrone, Neuroscience Research Center, Magna Graecia University of Catanzaro, Catanzaro, Italy
- WTh056** **Neural network visualization methods reveal relevant atrophy to detect Alzheimer's disease**
Martin Dyrba, Vadym Gryshchuk, Stefan Teipel, German Center for Neurodegenerative Diseases (DZNE), Rostock, Germany
- WTh057** **Multimodal Graph Pooling for Interpretable, MRI-Based Brain Graph Neural Network**
Isaac Sebenius, Alexander Campbell, Sarah Morgan, Edward T. Bullmore, Pietro Liò, University of Cambridge, Cambridge, United Kingdom
- WTh058** **Normative modelling of cortical thickness in schizophrenia: A 10-year followup MRI study**
Pierre Berthet, Beate Haatveit, Thomas Wolfers, Amanda Worker, Seyed Mostafa Kia, Saige Rutherford, Richard Dinga, Dag Alnaes, Ingrid Agartz, Ole Andreassen, Ingrid Melle, Lars Westlye, Andre Marquand, NORMENT, University of Oslo, Oslo, Norway
- WTh059** **Gaussian Process-based Prediction of Memory Performance and Biomarker Status in Ageing and Dementia**
Aditya Sai Ram Nemali, Niklas Vockert, David Berron, Anne Maass, Renat Yakupov, Hartmut Schütze, Annika Spottke, Oliver Speck, Anja Schneider, Katharina Buerger, Klaus Fliessbach, Michael Heneka, Steffen Wolfsgruber, Michael Wagner, Frank Jessen, Emrah Düzel, Gabriel Ziegler, Otto von Guericke University Magdeburg, Magdeburg, Germany
- WTh060** **Personalized encoding model construction via ensemble models: fine-tuning with small data**
Zijin Gu, Keith Jamison, Kendrick Kay, Thomas Naselaris, Mert Sabuncu, Amy Kuceyeski, Cornell University, Ithaca, United States
- WTh061** **Accurate out-of-sample BMI prediction from naturalistic-imagery fMRI connectivity**
Sage Hahn, Anthony Juliano, Max Owens, De Kang Yuan, Hugh Garavan, Nicholas Allgaier, University of Vermont, Burlington, United States
- WTh062** **Machine Learning Predicts Treatment Response in Bipolar & Major Depression Disorders**
Mustafa Salman, Eric Verner, H. Jeremy Bockholt, Zening Fu, Maria Misiura, Bradley Baker, Elizabeth Osuch, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States

- WTh063 Prediction accuracy and test-retest reliability of feature importance for behavioral prediction**
Jianzhong Chen, Leon Qi Rong Ooi, Jingwei Li, Christopher Asplund, Danilo Bzdok, Simon Eickhoff, Avram Holmes, Thomas Yeo, Electrical and Computer Engineering & Centre for Sleep & Cognition, National University of Singapore, Singapore, Singapore
- WTh064 Identification of cerebral cortices for arm kinematics with deep neural network and explainable AI**
Hong June Kim, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of
- WTh065 Consistency in sex classification analyses in brain functional organization across big data sets**
Lisa Wiersch, Kaustubh R. Patil, Simon Eickhoff, Susanne Weis, Institute for Neuroscience and Medicine (INM-7), Research Centre Jülich, Jülich, Germany, Jülich, Germany
- WTh066 Predictive modeling of pain sensitivity using cortical thickness**
Raviteja Kotikalapudi, Balint Kincses, Matthias Zunhammer, Tobias Schmidt-Wilcke, Zsigmond Kincses, Ulrike Bingel, Tamas Spisak, Laboratory of Predictive Neuroimaging, Essen, Germany
- WTh067 Identifying the Lamination in Cerebral Cortex via Low-Resolution MRI and Trust Region Optimization**
Jakub Jamárik, Lubomír Vojtíšek, Vendula Churová, Tomáš Kašpárek, Daniel Schwarz, Masaryk University, Brno, Czech Republic
- WTh068 Assessing the cross-cohort generalizability of connectivity-based fluid cognition prediction pattern**
Jianxiao Wu, Jingwei Li, Simon Eickhoff, B.T. Thomas Yeo, Sarah Genon, Forschungszentrum Juelich, Juelich, Germany
- WTh069 Classifying Alcohol Use Disorder**
Victor Vergara, Flor Espinoza, Kent Hutchison, Vince Calhoun, Tri-institutional Center for Translational Research (TReNDS), Atlanta, United States
- WTh070* Comprehensive brain reading: decoding mental processes from Web repositories of brain images**
Raphael Meudec, Romuald Menuet, Demian Wassermann, Bertrand Thirion, INRIA, Palaiseau, France
- WTh071 Data harmonization improves quantitative out-of-study fMRI BOLD signal decoding with MVPA**
Bogdan Petre, Martin Lindquist, Tor Wager, Dartmouth College, Hanover, United States
- WTh072 Finding methods in fMRI papers in order to evaluate analytic bias**
Kendra Oudyk, Jérôme Dockès, Kate Kim, Jacob Sanz-Robinson, Qing Wang, Jean-Baptiste Poline, McGill University, Montreal, Canada
- WTh073 Examining confounding bias in a connectivity-based predictive model of pain-related threat learning**
Balint Kincses, Ulrike Bingel, Katharina Schmidt, Katarina Forkmann, Tamas Spisak, University Hospital Essen, Essen, Germany
- WTh074 A connectome biomarker for blood pressure: a predictive analysis in 31367 UK Biobank participants**
Rongtao Jiang, Jing Sui, Vince Calhoun, Stephanie Noble, Qinghao Liang, Dustin Scheinost, Department of Radiology and Biomedical Imaging, Yale School of Medicine, New Haven, United States
- WTh075 Hierarchical Brain Embedding Using Explainable Graph Learning**
Benjamin Qu, Haoteng Tang, Lei Guo, Xiyao Fu, Paul Thompson, Heng Huang, Liang Zhan, Mission San Jose High School, San Jose, United States
- WTh076 Wasserstein Graph Clustering in Determining the Genetic Contribution of State Changes in rs-fMRI**
Moo Chung, Shih-Gu Huang, Ian Carroll, Vince Calhoun, H. Hill Goldsmith, University of Wisconsin, Madison, United States
- WTh077 Predicting Vigilance from fMRI with deep learning**
Jorge Salas, Catie Chang, Vanderbilt University, Nashville, United States
- WTh078 Identifying sources of bias when using two tools for quantifying White Matter Lesions: BIANCA & LST**
Tatiana Miller, Nora Bittner, Svenja Caspers, Medical Faculty & University Hospital Düsseldorf, Heinrich Heine University, Düsseldorf, Germany
- WTh079 Multimodal image and text processing of human brain using artificial neural networks and fMRI**
Juhyeon Lee, Hyun-Chul Kim, Jong-Hwan Lee, Korea University, Seoul, Korea, Republic of
- WTh080 Imbalanced learning algorithms: the effect on searchlight analysis**
Roberto Guidotti, Alessio Basti, Antea D'Andrea, Gian Luca Romani, Vittorio Pizzella, Laura Marzetti, University of Chieti-Pescara, Chieti, Italy
- WTh081 Julearn: an easy to use Python machine learning library with CV-consistent confound removal**
Sami Hamdan, Kaustubh R. Patil, Shammi More, Federico Raimondo, Institute of Neuroscience and Medicine, INM-7: Brain & Behaviour, Forschungszentrum Jülich, Jülich, Düsseldorf, Germany
- WTh082 Deep neural networks interpret white matter lesions as a signature of higher brain-age**
Simon Hofmann, Ole Goltermann, Arno Villringer, A. Veronica Witte, Frauke Beyer, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- WTh083 Fatigue Mechanisms in Rheumatoid Arthritis (RA): A Machine Learning Study in Multimodal MRI**
Salim Al-Wasity, Kristian Stefanov, Gordon Waiter, Neil Basu, University of Glasgow, Glasgow, United Kingdom
- WTh084 Symmetric pairs of semantic information are represented with little overlap in the human brain**
Jiaxin Wang, Antoine Blanc, Shinji Nishimoto, Satoshi Nishida, Institute of Information and Communications Technology, Suita, Japan
- WTh085 Data-driven conditional inclusion of biomarkers in sequential diagnosis of dementia**
Patric Wyss, David Ginsbourger, Haochang Shou, Christos Davatzikos, Stefan Klöppel, Ahmed Abdulkadir, University of Bern, Bern, Switzerland
- WTh086 Replication Test on Brain Age Models using ABCD Cohort**
Bhaskar Ray, Zening Fu, Jiayu Chen, Pranav Suresh, Britny Farahdel, Vince Calhoun, Jingyu Liu, Georgia Sate University, Decatur, United States
- WTh087 Self-supervised learning from MRI data: do we have enough data?**
Vadym Gryshchuk, Martin Dyrba, German Center for Neurodegenerative Diseases, Rostock, Germany
- WTh088 LSTM-based temporal decoding for event-related potentials**
Thomas Carr, Julie Sanderson, Saber Sami, University of East Anglia, Norwich, United Kingdom

- WTh089*** **Convolutional Neural Networks predict outcome from coma based on auditory ERPs**
Florence Aellen, Sigurd Alnes, Fabian Loosli, Fredric Zubler, Andrea Rossetti, Marzia De Lucia, Athina Tzovara, University of Bern, Bern, Switzerland
- WTh090** **Classification of Functional Movement Disorders via Machine Learning with Resting State fMRI**
Rebecca Waugh, Jacob Parker, Mark Hallett, Silvina Horovitz, University of Virginia, Charlottesville, United States
- WTh091** **Towards building an interpretable predictive tool for ASD with 3D Convolutional Neural Networks**
Melanie Garcia, Clare Kelly, Trinity College Dublin, Dublin, Ireland
- WTh092** **Predicting the recovery time after a concussion in a large clinical and neuroimaging dataset**
Giulia Bertò, Nicholas Port, Lauren Wilkins, Franco Pestilli, University of Texas at Austin, Austin, United States
- WTh093** **Exploration of Machine Learning Methods for Mild TBI Detection**
Victor Vergara, Adam Politis, Yi-Yu Chou, Pashtun Shahim, Dzung Pham, Andre van der Merwe, Julie Goldberg, Catie Chang, Leighton Chan, Vince Calhoun, Tri-institutional Center for Translational Research (TReNDS), Atlanta, United States
- WTh094** **Large-scale predictive modeling of confound-prone motor targets with neuroimaging features from UKB**
Vera Komeyer, Federico Raimondo, Felix Hoffstaedter, Laura Waite, Małgorzata Wierzba, Adina Wagner, Michael Hanke, Christian Grefkes, Simon Eickhoff, Kaustubh R. Patil, Research Center Jülich, Jülich, Germany
- WTh095** **A Deep-Learning Based Glioma Segmentation with Classification of IDH Mutation Status**
Erin Beate Bjørkeli, Taher Hansen, Jonn Terje Geitung, Morteza Esmaeili, Department of Diagnostic Imaging, Akershus University Hospital, Lørenskog, Norway
- WTh096** **The WaveNet model accurately forecasts brain activity**
Hanna Pankka, Timo Roine, Jaakko Lehtinen, Risto Ilmoniemi, Aalto University, Helsinki, Finland
- WTh097** **Comparing Linear versus Machine Learning approaches to predict Metabolic Risk from neuroimaging data**
Alessandro Russo, Peter Kochunov, Kathryn Hatch, Si Gao, Yizhou Ma, Elliot Hong, Thomas Nichols, Neda Jahanshad, Paul Thompson, Jerim Alam, Maryland Psychiatric Research Center, Catonsville, United States
- WTh098** **Data doping: how data manipulation can challenge model integrity in the open science era**
Matthew Rosenblatt, Margaret Westwater, Raimundo Rodriguez, Corey Horien, Abigail Greene, R. Todd Constable, Stephanie Noble, Dustin Scheinost, Yale University, New Haven, United States
- WTh099** **Neuroblox Brain Circuits: Design, Discover, Predict. A software platform for neuroscientists**
David Hofmann, Sageanne Senneff, Syed Sultan, Helmut Strey, Richard Granger, Earl Miller, Christopher Rackauckas, Alan Edelman, Lilianne Mujica-Parodi, Massachusetts Institute of Technology, Cambridge, United States
- WTh100** **Noise-robust sleep staging from mobile sparse EEG with dynamic spatial filtering**
Hubert Banville, Sean Wood, Chris Aimone, Denis-Alexander Engemann, Alexandre Gramfort, Inria, Université Paris-Saclay, Toronto, Canada
- WTh101** **Predicting influence of X chromosome on neuroanatomy and behavior using support vector regression**
Megan Klabunde, Iliana Karipidis, Hadi Hosseini, David Hong, University of Essex, Essex, United Kingdom
- WTh102** **A Novel Self-Supervised Learning Method to Enhance Deep Learning Classification of MRI Radiomic Data**
Zhiyuan Li, Hailong Li, Jonathan Dillman, Nehal Parikh, Lili He, Cincinnati Children's Hospital Medical Center, Cincinnati, United States
- WTh103** **A Contrastive Learning Approach to Measure Non-linear Temporal Connections**
Reihaneh Hassanzadeh, Vince Calhoun, Georgia State University, Suwanee, United States
- WTh104** **Brain decoding of the Human Connectome Project Tasks in a Dense Individual fMRI Dataset**
Shima Rastegarnia, Yu Zhang, Loic Tetrel, Valentina Borghesani, Pierre Bellec, Université de Montréal, Montréal, Canada
- WTh105** **Unsupervised Functional MRI Adaptation for Major Depressive Disorder Identification**
Yuqi Fang, Mingxia Liu, UNC-Chapel Hill, Chapel Hill, United States
- WTh106** **Predict psychopathology factors using predefined brain features in ABCD cohort**
Britny Farahdel, Bishal Thapaliya, Pranav Suresh, Bhaskar Ray, Vince Calhoun, Jingyu Liu, Tri-Institutional Center for Translational Research in Neuroimaging and Data Science (TReNDS), Atlanta, United States
- WTh107** **Siamese Network for classification of MCI using sulcal-based morphometry**
Mirko Zaffaroni, Valentin Pouce, Sophia Thomopoulos, Valentino Crespi, Jean-François Mangin, Denis Rivière, Paul Thompson, Neda Jahanshad, Fabrizio Pizzagalli, Department of Neurosciences, University of Turin, Turin, Italy
- WTh108** **An interpretable statistical model for brain age estimation from magnetic resonance imaging**
Roy Massett, Alexander Maher, Anar Amgalan, Nikhil Chaudhari, Nahian Chowdhury, Andrei Irimia, for the Alzheimer's Disease Neuroimaging Initiative, University of Southern California, Los Angeles, United States
- WTh109** **DEEP LEARNING PREDICTION OF GENDER FROM LONGITUDINAL STRUCTURAL MRI DATA IN THE ABCD STUDY**
Yuda Bi, Anees Abrol, Zening Fu, Vince Calhoun, Georgia State University, Atlanta, United States
- WTh110** **Segmentation, quality control, and abnormality classification of the midsagittal corpus callosum**
Shruti Gadewar, Elnaz Nourollahimoghadam, Abhinaav Ramesh, Shayan Javid, Kevin Low, Ellen Tatevosyan, Vineet Agarwal, Kathy Wang, Alyssa Zhu, Neda Jahanshad, University of Southern California, Los Angeles, United States
- WTh111** **Microbleed Detection in Autopsied Brains Using Microbleed Synthesis and Deep Learning**
Grant Nikseresht, Ashish Tamhane, Carles Javierre-Petit, Arnold Evia, David Bennett, Julie Schneider, Gady Agam, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States
- WTh112** **Towards guidelines for more automated quality control of structural brain imaging**
José Omar Alves Filho, Patricia Segura, Marco Pagani, Leona He, Zekiel Factor, Jessica Cloud, Stanley Colcombe, Michael Milham, Alexandre Franco, Adriana Di Martino, Child Mind Institute, New York, United States

- WTh113 Comparing sleep and anesthetic-induced unconsciousness using domain adversarial neural network**
Anirudha Kemptur, Arna Ghosh, JB Eichenlaub, George Mashour, Perrine Ruby, Stefanie Blain-Moraes, Karim Jerbi, University of Montreal, Montreal, Canada
- WTh114 End-to-end training of visual brain encoders on very large longitudinal movie dataset**
Marie St-Laurent, Katja Seeliger, Julie Boyle, Pierre Bellec, Martin Hebart, CRIUGM, Montreal, Canada
- WTh115 Trans-ResNet: A Transformer and CNN combined network for early diagnosis of Alzheimer's disease**
Chao Li, Yue Cui, Na Luo, Yong Liu, Pierrick Bourgeat, Jurgen Fripp, Tianzi Jiang, Institute of Automation, Chinese Academy of Sciences, Beijing, China
- WTh116 Assessing non-linear covariations using multimodal chromatic fusion**
Eloy Geenjaer, Alex Fedorov, Sergey Plis, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States
- WTh117 Guiding Exploration with Intrinsic Motivation from Visual Episodic Memory**
Jack Vice, Natalie Ruiz-Sanchez, Gita Sukthankar, Pamela Douglas, University of Central Florida, Orlando, United States
- WTh118 Deep look at brains of high and low dream recallers: Combining sleep EEG and deep neural networks**
Anirudha Kemptur, Arna Ghosh, Tarek Lajnef, Arthur Dehgan, Raphael Vallet, JB Eichenlaub, Perrine Ruby, Karim Jerbi, University of Montreal, Montreal, Canada

Connectivity (eg. functional, effective, structural)

- WTh119 A thalamo-centric neural signature for restructuring negative self-beliefs**
Trevor Steward, Po-Han Kung, Christopher Davey, Bradford Moffat, Rebecca Glarin, Alec Jamieson, Kim Felmingham, Ben Harrison, University of Melbourne, Melbourne, Australia
- WTh120 Altered structural connectivity in chronic pain and the modulating effect of positive affect**
Pierre Besson, Elizabeth Addington, Judith Moskowitz, S. Kathleen Bandt, Northwestern University, Chicago, United States
- WTh121 A co-alteration based characterization of the lentiform nucleus**
Jordi Manuella, Donato Liloia, Lorenzo Mancuso, Franco Cauda, Sergio Duca, tommaso costa, Università degli Studi di Torino, Turin, Italy
- WTh122 Communication and compression principles integrate sensation to cognition in human brain networks**
Dale Zhou, Jason Kim, Adam Pines, Valerie Sydnor, David Roalf, Ruben Gur, Raquel Gur, Theodore Satterthwaite, Dani Bassett, University of Pennsylvania, Philadelphia, United States
- WTh123 Moving Beyond the 'CAP' of the Iceberg: Brain Networks in fMRI are Continuously Engaging**
Armin Iraj, Ashkan Faghiri, Zening Fu, Peter Kochunov, Bhim Adhikari, Aysenil Belger, Judith Ford, Sarah McEwen, Daniel Mathalon, Godfrey Pearlson, Steven Potkin, Adrian Preda, Jessica Turner, Theo van Erp, Catie Chang, Vince Calhoun, TReNDs Center, Atlanta, United States
- WTh124 Modular structure of high-order interactions in the human brain**
Borja Camino-Pontes, Marilyn Gatica, Antonio Jimenez-Marin, Patricio Orio, Rodrigo Cofré, Jesus Cortes, Pontes, Bilbao, Spain

- WTh125 Assortativity in annotated cortico-cortical brain networks**
Vincent Bazinet, Justine Hansen, Bratislav Misic, McGill University, Montreal, Canada
- WTh126 Impact of White Matter Microstructure on Neural Communication and Information Processing Speed**
Noor Al Dahhan, Elizabeth Cox, Julie Tseng, Sonya Bells, Cynthia de Medeiros, Dunja Matic, Suzanne Laughlin, Eric Bouffet, Donald Mabbott, The Hospital for Sick Children, Toronto, Canada
- WTh127 Connectome thresholding in a cohort of patients with demyelinating clinically-isolated syndrome**
Michael Foster, Ferran Prados, Sara Collorone, Baris Kanber, Niamh Cawley, Indran Davagnanam, Marios Yiannakas, Frederik Barkhof, Claudia Gandini Wheeler-Kingshott, Olga Ciccarelli, Wallace Brownlee, Ahmed Toosy, University College London, London, United Kingdom
- WTh128 Working Memory task fMRI connectivity: reliability and individual differences**
Dekang Yuan, Sage Hahn, Anthony Juliano, Max Owens, Nicholas Allgaier, Hugh Garavan, University of Vermont, Burlington, United States
- WTh129 Networks of Cortical Activity in Infants with Epilepsy**
Sami Auno, Henna Jonsson, Tarja Linnankivi, Anton Tokariev, Sampsa Vanhatalo, University of Helsinki, Helsinki, Finland
- WTh130 The frequency-specific resting connectome in bipolar disorder: an MEG study**
Masakazu Sunaga, Yuichi Takei, Yutaka Kato, Minami Tagawa, Tomohiro Suto, Kazuyuki Fujihara, Noriko Sakurai, Masato Fukuda, Gunma University, Maebashi, Japan
- WTh131 Unexpectedly Short and Long Communication Pathways in the Human Connectome**
Filip Milisav, Bratislav Misic, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- WTh132 Semi-parametric Connectomic Heritability**
Jaewon Chung, Michael Powell, Eric Bridgeford, Joshua Vogelstein, Johns Hopkins University, Baltimore, United States
- WTh133 Compact Representation and Analysis of Brain Structure and Dynamics**
Peter Robinson, Kevin Aquino, Tahereh Babaie-Janvier, Rawan El Zghir, Natasha Gabay, Demi Gao, James Henderson, Eli Müller, Brandon Munn, University of Sydney, Sydney, Australia
- WTh134 Normative mapping of intracranial EEG networks for identifying epileptogenic networks**
Gabrielle Schroeder, Christoforos Papasavvas, Yujiang Wang, Peter Taylor, Newcastle University, Newcastle upon Tyne, United Kingdom
- WTh135 A Large Multi-Scale Functional Network Connectivity Reference Framework**
Armin Iraj, Zening Fu, Ashkan Faghiri, Srinivas Rachakonda, Vince Calhoun, TReNDs Center, Atlanta, United States
- WTh136 The Brain Connection: Dynamic Effective Connectivity using P-DCM with Recurrent Units**
Sayan Nag, Kamil Uludag, University of Toronto, Toronto, Canada
- WTh137 Fast and scalable estimation of effective connectivity: Neural Network aided P-DCM**
Sayan Nag, Kamil Uludag, University of Toronto, Toronto, Canada
- WTh138 Multimodal lesion network mapping for prediction of sensorimotor behavior in stroke patients**
Antonio Jimenez-Marin, Nele De Bruyn, Jolien Gooijers, Alberto Llera, Sarah Meyer, Kaat Alaerts, Geert Verheyden, Stephan Swinnen, Jesus Cortes, Biocruces Bizkaia Health Research Institute, Barakaldo, Spain

- WTh139 Identifying RDoC domain related control regions using a multitask control theory framework**
Johannes Wiesner, Maximilian Lückel, Anais Harneit, Linden Parkes, Jennifer Stiso, Jason Kim, Lorenzo Caciagli, Danielle Bassett, Heike Tost, Andreas Meyer-Lindenberg, Emanuel Schwarz, Urs Braun, Central Institute of Mental Health, Mannheim, Germany
- WTh140 Amygdala-Insula Resting-State Functional Connectivity Predicts Substance Use in Adolescents**
Patricio Viera Perez, Benjelene Sutherland, Jessica Flannery, Michael Riedel, Lauren Hill-Bowen, Katharine Crooks, Angela Laird, Elisa Trucco, Matthew Sutherland, Florida International University, Miami, United States
- WTh141 Time-Resolved Structure-Function Coupling in Brain Networks**
Zhen-Qi Liu, Bertha Vázquez-Rodríguez, Nathan Spreng, Boris Bernhardt, Richard Betzel, Bratislav Misic, Montreal Neurological Institute, McGill University, Montreal, Canada
- WTh142 Network-based Analysis of White Matter Connectivity in Premenstrual Dysphoric Disorder**
Xuan Gu, Manon Dubol, Erika Comasco, Inger Sundström-Poromaa, Uppsala University, Uppsala, Sweden
- WTh143 Benchmarking Functional Connectivity by the Structure and Geometry of the Human Brain**
Zhen-Qi Liu, Richard Betzel, Bratislav Misic, Montreal Neurological Institute, McGill University, Montreal, Canada
- WTh144 Comparing Haemodynamic and Electromagnetic Structure-Function Coupling Across the Neocortex**
Zhen-Qi Liu, Golia Shafiei, Bratislav Misic, Montreal Neurological Institute, McGill University, Montreal, Canada
- WTh145 Training parents for an early emotional contact changes cortical networks in their preterm infants**
Paullina Yrjölä, Michael Myers, Martha Welch, Nathan Stevenson, Anton Tokariev, Sampsa Vanhatalo, Aalto University, University of Helsinki, Helsinki University Central Hospital, Espoo, Finland
- WTh146 Connectome-harmonic decomposition accounting for subject-specific structural eigenbasis**
Anjali Nahalka, Jagruti Patel, Mikkel Schöttner, Patric Hagmann, Department of Radiology, Lausanne University Hospital (CHUV), Lausanne, Switzerland
- WTh147 Preferential Signal Pathways During the Perception and the Imagery of Familiar Places: a DCM Study**
Maria Giulia Tullo, Hannes Almgren, Frederik Van de Steen, Maddalena Boccia, Federica Bencivenga, Gaspare Galati, La Sapienza University of Rome, Rome, Italy
- WTh148 Disrupted functional connectivity among young adults with childhood maltreatment**
Cuicui Lin, Huiyuan Huang, Yaoke Deng, Xiaoyan Wu, Yuting He, Deng Mao, Yu Guo, Zhuozhuo Shen, Ruiwang Huang, the South China Normal University, Guangzhou, China
- WTh149 Multimodal brain correlates of treatment response for fatigue interventions in rheumatoid arthritis**
Kristian Stefanov, Salim Al-Wasity, Gordon Waiter, Amir Dehsarvi, Eva-Maria Bachmair, Jonathan Cavanagh, Neil Basu, University of Glasgow, Glasgow, United Kingdom
- WTh150 Sparse hierarchical learning on brain networks for prediction of ASD severity**
Hyeokjin Kwon, Seung-Yeon Son, Jong-Min Lee, Department of Electronic Engineering, Hanyang University, Seoul, Korea, Republic of
- WTh151 Functional connectivity analysis improved by precise individual anatomical partial volume correction**
Philipp Sämann, Juan Iglesias, Theo Van Erp, Elisabeth Binder, Michael Czisch, Max Planck Institute of Psychiatry, Munich, Germany
- WTh152 A striatal functional connectivity gradient specific to DaT SPECT-derived dopaminergic projections**
Marianne Oldehinkel, Koen Haak, Andre Marquand, Christian Beckmann, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands
- WTh153 Similarity of Lifespan Functional Connectivity across Modality, Paradigm & Time**
Ethan Knights, Richard Henson, MRC CBU, Cambridge, United Kingdom
- WTh154 Laminar-dependent functional connectivity between Area V4 and Frontoparietal Cortex**
Richard Klein, Andrew Morgan, Burak Akin, Renzo Huber, Peter Bandettini, NIMH – SFIM, Washington, United States
- WTh155 Network Connectivity in Visually Engaged Pre-Readers: A Graph Theory Analysis of MEG Recordings**
Erica Peterson, Patricia Kuhl, Jason Yeatman, University of Washington, Seattle, United States
- WTh156 Identifying topological changes of structural connectome in MCI and AD through persistent homology**
Frederick Xu, Sumita Garai, Moo Chung, Lorenzo Caciagli, Andrew Saykin, Danielle Bassett, Li Shen, University of Pennsylvania, Philadelphia, United States
- WTh157* Generative network models for neurodevelopment in infants with and without familial risk for autism**
Rui Shen, Drew Parker, Birkan Tunc, Rongguang Wang, Moises Hernandez, Annette Estes, Lonnie Zwaigenbaum, Martin Styner, Guido Gerig, Robert McKenstry, Stephen Dager, Kelly Botteron, Heather Hazlett, Leigh MacIntyre, Juhi Pandey, Benjamin Yerys, Joseph Piven, Robert Schultz, Ragini Verma, University of Pennsylvania, Philadelphia, United States
- WTh158 Hippocampal subfield-specific alterations in post-stroke dementia with subcortical lesion**
Yihan Wu, Huaying Cai, Linhui Ni, Guocan Han, Dan Wu, Zhiyong Zhao, Zhejiang University, Hangzhou, China
- WTh159 Methodological evaluation of cognitive predictions based on the brain structural connectome**
Guozheng Feng, Yiwen Wang, Weijie Huang, Haojie Chen, Ni Shu, Beijing Normal University, Beijing, China
- WTh160 Functional connectivity biomarkers in early Multiple Sclerosis measured with simultaneous EEG-fMRI**
João Duarte, Júlia Soares, Rodolfo Abreu, Ana Cláudia Lima, Lívia Sousa, Sónia Batista, Miguel Castelo-Branco, University of Coimbra, Coimbra, Portugal
- WTh161 Acute rsFC reconfiguration in anterior DMN associates to delayed pgACC Glu increase after S-ketamine**
Lena Danyeli, Meng Li, Zümüt Sen, Lejla Colic, Thomas Liebe, Lisa Kurzweil, Sabrina Gensberger-Reigl, Anna Fejtova, Martin Walter, University Hospital Jena, Jena, Germany
- WTh162 Connectome-based Prediction of Human Cognition using an AI-based Approach**
Morteza Esmaeili, Alireza Salami, Akershus University Hospital, Lørenskog, Norway

- WTh163** **A disturbed relationship between neuronal activity and functional brain network clustering in glioma**
Mona Lilo Magarete Zimmermann, Lucas Breedt, Eduarda Centeno, Shanna Kulik, Fernando Santos, Cornelis Stam, Marike van Lingen, Arjan Hillebrand, Linda Douw, AmsterdamUMC, Amsterdam, Netherlands
- WTh164** **Resting-state connectivity predictors for prefrontal activity during walking in Parkinson's disease**
Hao Ding, Inbal Maidan, Amgad Droby, Abdul Anwar, Manuel Bange, Jeffrey Hausdorff, Bahman Nasserouleslami, Anat Mirelman, Sergiu Groppa, Muthuraman Muthuraman, Department of Neurology, University Medical Center of the Johannes Gutenberg University Mainz, mainz, Germany
- WTh165** **Striatal resting-state functional connectivity in relation to grit-effort in adolescents**
Fiona Ching, H. T. Chiu, Isaac Ip, Y. L. Chan, Savio Wong, The Chinese University of Hong Kong, Hong Kong, Hong Kong
- WTh166** **Eigenvector centrality dynamics relate to amyloid deposition in preclinical Alzheimer's Disease**
Luigi Lorenzini, Silvia Ingala, Lyduine Collij, Viktor Wottschel, Haller Sven, Kaj Blennow, Giovanni Frisoni, Gael Chételat, Pierre Payoux, Lage-Martinez Pablo, Waldman Adam, Joanna Wardlaw, Craig Ritchie, Juan Domingo Gispert, Henk Mutsaerts, Pieter Jelle Visser, Philip Scheltens, Betty Tijms, Frederik Barkhof, Alle Meije Wink, Amsterdam UMC, Amsterdam, Netherlands
- WTh167** **Dynamic causal modelling of auditory steady state responses following tDCS**
Frederik Van de Steen, Giovanni Pellegrino, Dimitris Pinotsis, Jeroen Van Schependom, Guy Nagels, Daniele Marinazzo, Giorgio Arcara, Vrije Universiteit Brussel, Brussels, Belgium
- WTh168** **Impact of cardiometabolic health on brain connectivity across the adult age span**
Barnaly Rashid, Matthew Glasser, Thomas Nichols, David Van Essen, Meher Juttukonda, Essa Yacoub, Allison Lovely, Melissa Terpstra, Michael Harms, Susan Bookheimer, Beau Ances, David Salat, Steven Arnold, Massachusetts General Hospital, Charlestown, United States
- WTh169** **BRAPH 2.0: Brain connectivity software with multilayer network analyses and machine learning**
Emiliano Gómez-Ruiz, Anna Canal-García, Yu-Wei Chang, Dániel Veréb, Mite Mijalkov, Joana B. Pereira, Giovanni Volpe, Department of Physics, Goteborg University, Gothenburg, Sweden
- WTh170** **Linking functional and structural brain organisation with behaviour in healthy adults**
Natalie Forde, Alberto Llera, Jan Buitelaar, Christian Beckmann, Donders Institute, Nijmegen, Netherlands
- WTh171** **A Tool for Brain Networks Investigation Finalized to Patient-Tailored Rehabilitation: SPIDER-NET**
Davide Coluzzi, Alice Pirastru, Laura Pelizzari, Monia Cabinio, Giuseppe Baselli, Francesca Baglio, Politecnico di Milano, Milano, Italy
- WTh172** **Links between heart rate variability and brain connectivity: the role of blood glucose and pressure**
Jeffrey Yu, Ahmad Hussein, Linda Mah, Jean Chen, Rotman Research Institute, North York, Canada
- WTh173** **Topographical graded organization of function in the human cerebral cortex**
Marius Braunsdorf, Guilherme Blazquez Freches, Matthias Schurz, Christian Beckmann, Rogier Mars, Donders Institute, Nijmegen, Netherlands
- WTh174** **Asymmetric Signal Propagation Across the Cortical Hierarchy Predicts Changes in Neuronal Timescales**
Linden Parkes, Jason Kim, Jennifer Stiso, Monica Calkins, Matthew Cieslak, Raquel Gur, Ruben Gur, Tyler Moore, David Roalf, Russell Shinohara, Daniel Wolf, Theodore Satterthwaite, Dani Bassett, University of Pennsylvania, Philadelphia, United States
- WTh175** **Metastability, fractal scaling, and synergistic information processing in resting-state fMRI**
Fran Hancock, Joana Cabral, Andrea Luppi, Fernando Rosas, Pedro Mediano, Ottavia Dipasquale, Federico Turkheimer, King's College London, London, United Kingdom
- WTh176** **Developing longitudinal network models for use in multiple sclerosis clinical trials**
Elisa Colato, Claudia Gandini Wheeler-Kingshott, Douglas Arnold, Frederik Barkhof, Olga Ciccarelli, Declan Chard, Arman Eshaghi, UCL, London, United Kingdom
- WTh177** **Graph measures of lower dimensional brain atlases can identify disability in MS**
Bella Nevarez, Ceren Tozlu, Keith Jamison, Susan Gauthier, Amy Kuceyeski, Cornell University, Frisco, United States
- WTh178** **A connectome-based mammalian taxonomy**
Laura Suarez, Yossiv Yovel, Yaniv Assaf, Guillaume Lajoie, Bratislav Mistic, Montreal Neurological Institute, Montreal, Canada
- WTh179** **Reconstructing atlas-specific connectomes from data previously processed with different atlases**
Javid Dadashkarimi, Amin Karbasi, Dustin Scheinost, Yale University, New Haven, United States
- WTh180** **Prenatal depression, infant sleep, and structural connectivity in infant brain networks**
Claire Donnici, Xiangyu Long, Lianne Tomfohr-Madsen, Gerald Giesbrecht, Catherine Lebel, University of Calgary, Calgary, Canada
- WTh181** **Rest-less or less-rest: Spatially constrained ICA enables schizophrenia detection from short rsfMRI**
Marlena Duda, Armin Iraj, Vince Calhoun, Georgia State University, Atlanta, United States
- WTh182** **A directional view of the default mode network at rest and its relationship with episodic memory**
María Cabello-Toscano, Dídac Macià-Bros, Lídia Vaqué-Alcázar, Lídia Mulet-Pons, Kilian Abellaneda-Pérez, Gabriele Cattaneo, Javier Solana-Sánchez, Núria Bargalló, Josep Tormos, Alvaro Pascual-Leone, David Bartrés-Faz, Gustavo Deco, University of Barcelona, Barcelona, Spain
- WTh183** **Biological Correlates of Structure-Function Coupling in the Human Brain**
Panagiotis Fotiadis, Matthew Cieslak, Xiaosong He, Theodore Satterthwaite, Russell Shinohara, Dani Bassett, University of Pennsylvania, Philadelphia, United States
- WTh184** **Ensemble Learning for Whole Brain Mapping of Directed Functional Connectivity**
Younghyun Oh, Casey Paquola, Boris Bernhardt, Michael Milham, Seok-Jun Hong, SungKyunKwan University, Seoul, Korea, Republic of
- WTh185** **Hierarchical organization of spontaneous co-fluctuations in fMRI**
Richard Betzel, Sarah Cutts, Jacob Tanner, Sarah Greenwell, Joshua Faskowitz, Olaf Sporns, Indiana University, Bloomington, United States
- WTh186** **Do commonly-used dynamic Functional Connectivity assessment methods produce comparable results?**
Mohammad Torabi, Georgios Mitsis, Jean-Baptiste Poline, McGill University, Montreal, Canada

- WTh187 Invasive human neural recording links resting-state connectivity to generation of task activity**
Ravi Mill, Adeen Flinker, Michael Cole, Rutgers University, Newark, United States
- WTh188 Structural Connectivity in Acute Pediatric TBI – a Graph Theory Perspective**
Reut Raizman, Tamar Silberg, Neta Erez, Jana Landa, Galia Tsarfaty, Chagi Pick, Abigail Livny, Sheba Medical center, Rosh Haayin, Israel
- WTh189 Long-COVID: Aberrant connectivity of salience network in critically-ill patients**
Alberto Cabrera Zubizarreta, Antonio Jimenez-Marin, Daniela Ramos-Usuga, Itziar Benito-Sanchez, Endika Martinez, Victoria Boado, Fermin Labayen, Juan Arango-Lasprilla, Jesus Cortes, OSATEK. Hospital Galdakao Unit, Getxo, Spain
- WTh190 Estimating functional network from the structural network via polysynaptic connection in zebrafish**
Dongmyeong Lee, Jinseok Eo, Hae-Jeong Park, Yonsei University, Seoul, Korea, Republic of
- WTh191 Tractographic Analysis of HIV-related Changes in Structural Connectivity in Children Living With HIV**
Farai Mberi, Marcin Jankiewicz, Francesca Little, Mark Cotton, Andre van der Kouwe, Barbara Laughton, Ernesta Meintjes, Martha Holmes, University of Cape Town, Cape Town, South Africa
- WTh192 Higher Efficiency, Clustering and Correlation with Function in COMMIT-Weighted Structural Networks**
Mark Nelson, Jessica Royer, Simona Schiavi, Hyerang Jin, Shahin Tavakol, Reinder VosdeWael, Raul Rodriguez-Cruces, Ilana Leppert, Jennifer Campbell, G. Bruce Pike, Boris Bernhardt, Alessandro Daducci, Bratislav Misic, Christine Tardif, McGill, Montréal, Canada
- WTh193 Impulse control correlates with brain functional connectivity among typically developing adolescents**
H. T. Chiu, Isaac Ip, Fiona Ching, Y. L. Chan, Savio Wong, The Chinese University of Hong Kong, Hong Kong, Hong Kong
- WTh194 Neuroplasticity is associated with altered whole brain connectivity in prodromal Alzheimer's Disease**
Diederick De Leeuw, Ellen Dicks, Frederik Barkhof, Pieter Jelle Visser, Betty Tijms, VU medical center, Amsterdam, Netherlands
- WTh195 Neuronal avalanches differentiate resting-state and task conditions in Brain-Computer Interfaces**
Marie-Constance Corsi, Pierpaolo Sorrentino, Denis Schwartz, Nathalie George, Laurent Hugueville, Ari Kahn, Sophie Dupont, Danielle Bassett, Viktor Jirsa, Fabrizio De Vico Fallani, Inria-Paris, Paris Brain Institute, Paris, France
- WTh196 EEG motor network connectivity modulates TMS outcome**
Laura Marzetti, Alessio Basti, Roberto Guidotti, Antea D'Andrea, Johanna Metsomaa, Maria Ermolova, Ulf Ziemann, Gian Luca Romani, Risto Ilmoniemi, Vittorio Pizzella, University of Chieti-Pescara, Chieti, Italy
- WTh197 The relation between executive functioning and MEG multilayer network centrality in glioma patients**
Marika van Lingen, Lucas Breedt, Jeroen Geurts, Arjan Hillebrand, Martin Klein, Mathilde Kouwenhoven, Shanna Kulik, Jaap Reijneveld, Cornelis Stam, Philip De Witt Hamer, Mona Lilo Magarete Zimmermann, Fernando Santos, Linda Douw, Anatomy and Neurosciences, Amsterdam UMC, Amsterdam, Netherlands
- WTh198 Exploring several influential factors in RSFC-based cognitive traits prediction**
Pujie Feng, Rongtao Jiang, Bin Jing, Haiyun Li, China Capital Medical University, Beijing, China
- WTh199 Diagnosis and Prognosis of Concussion using Multimodal Connectomics and Artificial Intelligence**
Inbar Meninger, Grisha Berlinerblau,
- WTh200 Effective connectivity of the locus coeruleus in patients with late life MDD or amnesic MCI**
Pablo Maturana, Pamela Chavarría-Elizondo, Inés del Cerro, pablo maturana, Jordi Gascón-Bayarri, Ramón Reñé, Mikel Urretavizcaya, José M. Menchón, Isidre Ferrer, Virginia Soria, Carles Soriano-Mas, University of Barcelona, Barcelona, Spain
- WTh201 Efficient and reliable estimation of generative network models for the human connectome**
Yuanzhe Liu, Caio Seguin, Maria Di Biase, Andrew Zalesky, The University of Melbourne, West Melbourne, Australia
- WTh202 Heritable and structural connection-based scale-generic dynamic brain network stability**
Yuwen He, Xiaosong He, Yue Cui, Haibin Huang, Zhen Yuan, Yuan Zhou, University of Macau, Macau, Macao
- WTh203 Disconnection patterns underlying specific aspects of motor impairment after stroke**
Frauke Esser, Liz Raizor, Ellen Binder, Lukas Hensel, Anne Rehme, Corinna Ringmaier, Anna Schönberger, Caroline Tscherpel, Christian Grefkes, Gereon Fink, Scott Grafton, Lukas Volz, University Hospital Cologne, Cologne, Germany
- WTh204 Multi-Subject Archetypal Analysis on multi-site rsfMRI data for classification of Schizophrenia**
Laerke Krohne, Morten Mørup, Kristoffer Madsen, Technical University of Denmark, Copenhagen, Denmark
- WTh205 Quantifying the impact of scanner bias on the construction of structural connectomes**
Jagruti Patel, Anjali Tarun, Thomas Bolton, Sebastien Tourbier, Yasser Alemán-Gómez, Mikkel Schöttner, Jonas Richiardi, Patric Hagmann, CHUV, Zurich, Switzerland
- WTh206 Developmental trajectory of functional connectivity in 5 to 24 months Gambian infants: a fNIRS study**
Chiara Bulgarelli, Adam Eggebrecht, Anna Blasi, Samantha McCann, Ebrima Mbye, Ebou Touray, Sophie Moore, Sarah Lloyd-Fox, Clare Elwell, Birkbeck College, London, United Kingdom
- WTh207 Self-Regulation Learning as Active Inference**
Gabriela Vargas, David Araya, María Rodríguez-Fernández, Ranganatha Sitaram, Wael El-Deredy, Pontificia Universidad Católica de Chile, Santiago, Chile
- WTh208 A simulation study about the dependency of phase-coupling estimates on the data length**
Alessio Basti, Federico Chella, Roberto Guidotti, Maria Ermolova, Antea D'Andrea, Matti Stenroos, Gian Luca Romani, Vittorio Pizzella, Laura Marzetti, University of Chieti-Pescara, Pescara, Italy
- WTh209 Edge permutation in weighted brain networks**
František Váša, Jakub Vohryzek, Rosalyn Moran, Robert Leech, King's College London, London, United Kingdom
- WTh210 Insulin levels mediates obesity-related brain reward system**
Hwee-ling Lee, Weiyi Zeng, Rüdiger Stirnberg, Tony Stöcker, Monique Breteler, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
- WTh211 Characterizing brain regions using nodal modularity in a dual-layer fMRI and DTI network**
Avalon Campbell-Cousins, Javier Escudero, University of Edinburgh, Edinburgh, United Kingdom

- WTh212** **Connective Field Modeling using Dynamic Mode Decomposition with Control**
Salil Bhat, Rainer Goebel, Mario Senden, Maastricht University, Maastricht, Netherlands
- WTh213** **Crossmodal relationships between infant fMRI resting-state network strength and EEG bandpower**
Ryan Stanyard, Tanya Poppe, Lucas Souza Franca, Kimberley Whitehead, Lorenzo Fabrizi, Dafnis Batalle, Tomoki Arichi, King's College London, London, United Kingdom
- WTh214** **Conditions influencing the choice of functional connectivity method for task-related fMRI designs**
Francisco Carrera, Pedro M. Paz-Alonso, BCBL, San Sebastian, Spain
- WTh215** **Sleep Spindles: A Model for Exploring Functional Connectivity Metrics in MEG**
Gregory Rattray, Hugo Jourde, Keelin Greenlaw, Emily Coffey, Concordia University, Montreal, Canada
- WTh216** **Electrophysiological Properties of Dynamic Resting-State fMRI Functional Connectivity**
Kristina Sabaroedin, William Wilson, Daniel Pittman, Paolo Federico, Pierre LeVan, University of Calgary, Calgary, Canada
- WTh217** **Cerebello-Cerebral Resting-State Functional Connectivity: A Proof-of-Concept Report using 7T MRI**
Sheeba Anteraper, Aaron Anderson, Paul Arnold, Diane Beck, Paul Camacho, Xavier Guell, Bruce Damon, Patricia Jones, Brad Sutton, Sina Tafti, Bansari Upadhyay, Andrew Webb, Mark Whiting, Tracey Wszalek, Carle Foundation Hospital, Urbana, United States
- WTh218** **Characterization of neural dynamics between the anterior thalamus and cortex in epilepsy patients**
Giovanna Aiello, Lennart Stieglitz, Christian Baumann, Rafael Polania, Lukas Imbach, ETH Zürich, Zürich, Switzerland
- WTh219** **Multiple hippocampal connectivity topographies across the adult lifespan**
Kristin Nordin, Filip Grill, Farshad Falahati, Robin Pedersen, Jarkko Johansson, Micael Andersson, Anna Rieckmann, Alireza Salami, Karolinska Institutet, Solna, Sweden
- WTh220** **Trait rumination is predictive of global network integration of a default mode subnetwork**
Gert Vanhollebeke, Ingemarie Coquyt, Mitchel Kappen, Jens Allaert, Pieter van Mierlo, Marie-Anne Vanderhasselt, Ghent University, Ghent, Belgium
- WTh221** **Topology of Structural Networks Weighted by R1 & Axonal Volume Fraction**
Mark Nelson, Jessica Royer, Simona Schiavi, Hyerang Jin, Shahin Tavakol, Reinder Vos de Wael, Raúl Rodríguez-Cruces, Ilana Leppert, Jennifer Campbell, G. Bruce Pike, Boris Bernhardt, Alessandro Daducci, Misic Bratislav, Christine Tardif, McGill, Montréal, Canada
- WTh222** **ISAAC analysis for functional connectivity disambiguation**
Jaime Caballero-Insaurriaga, Guglielmo Foffani, Jose Angel Pineda-Pardo, Integrative Centre for Neurosciences, HM CINAC, Móstoles, Spain
- WTh223** **Structural connectome analysis in adults with acoustic neuromas and unilateral hearing loss**
Pascale Tsai, Timur Latypov, Peter Shih-Ping Hung, Wanzhang Wang, Karen Gordon, John Rutka, George Ibrahim, Mojgan Hodaie, Krembil Research Institute, University Health Network, Toronto, Canada
- WTh224*** **Modelling the propagation of stimuli through the human connectome at high spatiotemporal resolution**
Caio Seguin, Maciej Jedynak, Sina Mansour L., Olivier David, Olaf Sporns, Andrew Zalesky, University of Melbourne, Melbourne, Australia
- WTh225** **Dynamic nonlinear network connectivity in fMRI data**
Sara Motlaghian, Vince Calhoun, Aysenil Belger, Juan Bustillo, Judith Ford, Armin Iraj, Kelvin Lim, Daniel Mathalon, Robyn Miller, Bryon Mueller, Godfrey Pearlson, Steven Potkin, Adrian Preda, Theo van Erp, Daniel O'Leary, Georgia State University, Alpharetta, United States
- WTh226** **Healthy aging is related to regional decreases in global functional connectivity**
Katherine Koenig, Sally Durgerian, Stephen Rao, Mark Lowe, The Cleveland Clinic, Cleveland, United States
- WTh227** **On Location: Testing the use of movie-fMRI for individualized target localization for TMS**
Hallee Shearer, Ahmad Samara, Jeffrey Eilbott, Fidel Vila-Rodriguez, Tamara Vanderwal, University of British Columbia, Vancouver, Canada
- WTh228** **Using naturalistic fMRI to study the intact hemisphere of pediatric epilepsy surgery patients**
Sophia Robert, Michael Granovetter, Christina Patterson, Marlene Behrmann, Carnegie Mellon University, Pittsburgh, United States
- WTh229*** **Gradients go to the movies: Macroscale cortical organization during naturalistic viewing**
Ahmad Samara, Jeffrey Eilbott, Hallee Shearer, Ting Xu, Tamara Vanderwal, University of British Columbia, Vancouver, Canada
- WTh230** **Impact of Type 2 Diabetes Mellitus and Metabolic Syndrome on hippocampal long-axis specialization**
Mohamed Yousif, Ali Khan, Hubertus Smeets, Jacobus Jansen, Elia Formisano, Kamil Uludag, Roy Haast, University of Western Ontario, London, Canada
- WTh231** **Disrupted thalamo-cortico dynamic intrinsic functional connectivity in temporal lobe epilepsy**
Shilpi Modi, Xiaosong He, Walter Hinds, Ankeeta A, Andrew Crow, Michael Sperling, Joseph Tracy, Thomas Jefferson University, Philadelphia, United States
- WTh232** **Prediction of Performance on the Clock Drawing Test from Fractional Anisotropy**
Josue Luiz Dalboni da Rocha, Ivanei Bramati, Fernanda Tovar-Moll, Gabriel Coutinho, Ranganatha Sitaram, St. Jude Children's Research Hospital, Memphis, United States
- WTh233** **Temporal stroke damage predicts synchronization between the language and multiple demand networks**
Anne Billot, Maria Varkanitsa, Isaac Falconer, Swathi Kiran, Boston University, Boston, United States
- WTh234** **Examining Structural Connectivity of State Fatigue in Multiple Sclerosis via Connectometry**
Cristina Román, Glenn Wylie, Bing Yao, John DeLuca, Kessler Foundation, Bloomfield, United States
- WTh235** **Phase-Consistency Based Frequency-Domain Analysis of Brain Network Modularity**
Hüden Neşe, Emre Hari, Ahmet Ademoğlu, Tamer Demiralp, Bogazici University, Istanbul, Turkey
- WTh236** **Structural-Functional Default Mode Network Hypoalignment in Internalizing Psychopathologies**
Paul Thomas, Alex Leow, Olusola Ajilore, University of Illinois at Chicago, Chicago, United States

- WTh237 Exploratory analysis of structure-function coupling changes following temporal lobe epilepsy surgery**
Mary Taylor, Jason Kai, Roy Haast, Maryam Nouri, Ali Khan, Western University, London, Canada
- WTh238 Distinct structural connectivity development in young people at high risk of bipolar disorder**
Gloria Roberts, Alistair Perry, Kate Ridgway, Vivian Leung, Megan Campbell, Rhoshel Lenroot, Philip Mitchell, Michael Breakspear, University of New South Wales, Sydney, Australia
- WTh239 Dynamic resting state functional connectivity predicts response to treatment for post-stroke aphasia**
Isaac Falconer, Maria Varkanitsa, Swathi Kiran, Boston University, Boston, United States
- WTh240 The Fluidity of Age and Sex Differences for Language based Functional Connectivity Networks**
Harish Raviprakash, Ninet Sinaii, Ashlee Simmons, Jinqing Liang, Sara Inati, William Theodore, Nadia Biassou, RADIS/ NIH Clinical Center, Bethesda, United States
- WTh241 Joint intra- & inter-subject functional connectivity enables better prediction of social ability**
Hua Xie, Elizabeth Redcay, University of Maryland College Park, College Park, United States
- WTh242 Surface-based Network Analysis in Post-Stroke Dementia**
Wenwen Li, Zhiyong Zhao, Dan Wu, Huaying Cai, Linhui Ni, Guocan Han, Zhejiang University, Hangzhou, China
- WTh243 Structural Co-Regression (SCoRe): A novel technique for subject-specific anatomical connectivity**
Katie Lavigne, Celia Blaise, Andrew Reid, Martin Lepage, Alan Evans, McGill University, Montreal, Canada

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- WTh244 Covariate Correcting Network for Detecting Sole Effect of Socioeconomic Status on Brain in Children**
Hyuna Cho, Gunwoong Park, Amal Isaiah, Won Hwa Kim, Pohang University of Science and Technology (POSTECH), Pohang, Korea, Republic of
- WTh245 Hippocampal Subfield DTI Characterization of Mesial Temporal Sclerosis**
Gustavo Chau Loo Kung, Andrew Chiu, Zach Davey, Nicole Mouchawar, Mackenzie Carlson, Douglas Martin, Kevin Graber, Babak Razavi, Jennifer McNab, Michael Zeineh, Stanford University, Stanford, United States
- WTh246 Assessing Individual Streamline Plausibility through Randomized Tractogram Filtering**
Antonia Hain, Daniel Jörgens, Rodrigo Moreno, Saarland University, Saarbrücken, Germany
- WTh247 Fitting microstructure parameters of a multicompartment diffusion model with ODF-Fingerprinting**
Ptryk Filipiak, Timothy Shepherd, Ying-Chia Lin, Samuel Eckstrom, Dimitris Placantonakis, Fernando Boada, Steven Baete, CAI2R, Department of Radiology, NYU Langone Health, New York, United States
- WTh248 Large-scale simulations to create large collections of realistic white matter samples using MEDUSA**
Alexis Brullé, Anas Bachiri, Christophe Destrieux, Gilles Wiber, Thierry Delzescaux, Ivy Uszynski, Cyril Poupon, CEA, Paris, France

- WTh249 Intra Voxel Incoherent Motion: Application for Parameters Calculation**
Kamil Lipiński, Piotr Bogorodzki, Warsaw University of Technology, Warsaw, Poland
- WTh250 A Tractographic Investigation of Temporal-Parietal Structural Connectivity Using Simulated Lesions**
Emma Strawderman, Frank Garcea, Webster Pilcher, Bradford Mahon, University of Rochester, Rochester, United States
- WTh251 Test-Retest Reliability of Fractional Anisotropy in 5-year-olds**
Aylin Rosberg, Jetro Tuulari, Venla Kumpulainen, Minna Lukkarinen, Elmo Pulli, Eero Silver, Anni Copeland, Ekaterina Saukko, Jani Saunavaara, John Lewis, Linnea Karlsson, Hasse Karlsson, Harri Merisaari, University of Turku, Helsinki, Finland
- WTh252 Imaging biomarker discovery in major depressive disorder with diffusion MRI multi-compartment models**
renaud hedouin, Olivier Commowick, Julie Coloigner, INRIA, Rennes, France
- WTh253 Microstructure Specific Diffusion MRI Reveals Microglia Density**
Zhexian Sun, Pamela Woodard, Qing Wang, Yong Wang, WUSTL, saint louis, United States
- WTh254 Disimpy: A GPU-accelerated diffusion MRI simulator in Python**
Leevi Kerkelä, Marco Palombo, Chris Clark, University College London, London, United Kingdom
- WTh255 Optimal Diffusion MRI protocol for signal interpolation using MAP-MRI**
Constance Bocquillon, Juan Villarreal, Jonathan Rafael-Patino, Erick Canales-Rodríguez, Jean-Philippe Thiran, Gabriel Girard, EPFL, Lausanne, Switzerland
- WTh256 DMRI head motion correction algorithms are highly accurate but affected by denoising and acquisition**
Matthew Cieslak, Philip Cook, Tinashe Tapera, Scott Grafton, Mark Elliott, David Roalf, Danielle Bassett, Desmond Oathes, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States
- WTh257 Exploring the distributions and correlations of macro- and microstructure in hippocampal gray matter**
Bradley Karat, Jordan DeKraker, Ali Khan, Western University, London, Canada
- WTh258 Characterizing Brain Structural Deficits in Hemodialysis Patients using Mean Apparent Propagator MRI**
Wesley Richerson, Brian Schmit, Dawn Wolfgram, Medical College of Wisconsin, Milwaukee, United States
- WTh259 Brain Arteries Diameter and Brain Tissue Volumes Correlation**
Maryam Alipasandi, Russell Butler, Bishop's University, Sherbrooke, Canada
- WTh260 Harmonized TBSS Reveals Structural Abnormalities in White Matter Tracts in Patients with FCD**
Daniel Chu, Nagesh Adluru, Veena Nair, Kevin Dabbs, Jiancheng Hou, Bruce Hermann, Andrew Alexander, Vivek Prabhakaran, Raheel Ahmed, University of Wisconsin School of Medicine and Public Health, Madison, United States
- WTh261 Longitudinal profile of structural brain network abnormalities after traumatic brain injury**
Nishant Sinha, James Gugger, Yiming Huang, Alexa Walter, Justin Morrison, Cian Dabrowski, Ramon Diaz-Arrastia, Kathryn Davis, University of Pennsylvania, Philadelphia, United States

- WTh262 Interpreting DTI Metrics for Charting White Matter Development Using Multiple Diffusion Models**
Devyn Cotter, Talia Nir, Alyssa Zhu, Megan Herting, Neda Jahanshad, University of Southern California, Los Angeles, United States
- WTh263 Using Deep Learning to Determine the Number of Fibers and Fiber Orientation in a White Matter Voxel**
Samuel Eckstrom, Patryk Filipiak, Timothy Shepherd, Dimitris Placantonakis, Fernando Boada, Steven Baete, New York University, Burnsville, United States
- WTh264 Infant cortical microstructure at term-equivalent age accurately predicts prematurity at birth**
Andrea Gondova, Sara Neumane, Yann Leprince, Jean-François Mangin, Jessica Dubois, CEA, Gif-sur-Yvette, France
- WTh265 Maternal thyroid function during pregnancy and offspring white matter microstructure**
Olavi Orell, Eila Suvanto, Martta Kerkelä, Heljä-Marja Surcel, Juha Veijola, Lassi Björnholm, University of Oulu, Oulu, Finland
- WTh266 Combined T2-T2*-diffusion imaging enables simultaneous mapping of compartment-specific T2 and T2***
Ting Gong, Merlin J. Fair, Kawin Setsompop, Hui Zhang, University College London, London, United Kingdom
- WTh267 Predictability of AF and ILF on Language Recovery in Aphasia after Stroke Using Machine Learning**
Sung Bom Pyun, Woo-Suk Tae, Yoonhye Na, Minjae Cho, Yu Mi Hwang, Korea University Medical Center, Seoul, Korea, Republic of
- WTh268 Investigating the structural connectivity of resected tissue in epilepsy and its effect on outcome**
Gerard Hall, Peter Taylor, Newcastle University, Newcastle Upon Tyne, United Kingdom
- WTh269 Reproducible protocol to obtain and estimate first-order human white-matter thalamocortical tracts**
Garikoitz Lerma-Usabiaga, Liu Mengxing, Francisco Clascá, Pedro M. Paz-Alonso, BCBL. Basque Center on Cognition, Brain and Language, Donostia – San Sebastian, Spain
- WTh270 Impact of Maternal Childhood Maltreatment on the White Matter Pathways of the Offspring**
Banu Ahtam, Jennifer Khoury, Henry Feldman, Michaela Sisitsky, Julianna Standish, Borjan Gagoski, Ai Wern Chung, Sommer Jaber, Juan Perez, Josie Wilson, Michelle Bosquet Enlow, Karlen Lyons-Ruth, P Ellen Grant, Boston Children's Hospital, Boston, United States
- WTh271 Utilizing Beyond Single-Tensor Diffusion MRI To Understand Cognitive Decline in Parkinsons dDiseas**
Virendra Mishra, Karthik Sreenivasan, Jessica Caldwell, Aaron Ritter, Zoltan Mari, Cleveland Clinic Lou Ruvo Center for Brain Health, Las Vegas, United States
- WTh272 Effects of mild cognitive impairment on white matter tracts of the brain**
Bramsh Chandio, Conor Owens-Walton, Julio Villalon Reina, Leila Nabulsi, Sophia Thomopoulos, Javier Guaje, Eleftherios Garyfallidis, Paul Thompson, University of Southern California, Los Angeles, United States
- WTh273 Separating Blood, Water and Neurites: A NODDI and IVIM Model**
Faye McKenna, Mariana Lazar, New York University School of Medicine, New York, United States

EEG/MEG Modeling and Analysis

- WTh274 DriPP: Driven Point Processes to Model Stimuli Induced Patterns in M/EEG Signals**
Cedric Allain, Alexandre Gramfort, Thomas Moreau, Inria, Palaiseau, France
- WTh275 Event-related EEG/MEG time-frequency analysis: Relating power and coherence across trials**
Guillaume Marrelec, Jonas Benhamou, Michel Le Van Quyen, Inserm, Paris, France
- WTh276 Observing the Amygdala Response to Emotional Faces for a Neurofeedback Task Using MEG Beamformers**
Angela Wang, Frederick Carver, Jeff Stout, Tom Holroyd, Anna Namyst, Joyce Chung, Allison Nugent, National Institute of Mental Health, Bethesda, United States
- WTh277 Unsupervised Feature Extraction from Resting-state MEG with Nonlinear ICA**
Yongjie Zhu, Lauri Parkkonen, Aapo Hyvärinen, University of Helsinki, Helsinki, Finland
- WTh278 Exploring Alpha-BOLD Dynamics in Eyes Open / Closed Resting State fMRI-EEG with Hidden Markov Models**
Brandon Ingram, Stephen Mayhew, Andrew Bagshaw, University of Birmingham, Birmingham, United Kingdom
- WTh279 Examining the mechanisms for the effects of parent-child neural synchrony on child math processing**
Analia Marzoratti, Gus Sjobeck, Tanya Evans, University of Virginia, Charlottesville, United States
- WTh280 Weighting EEG statistical linear modelling by single trial dynamic**
Cyril Pernet, Guillaume Rousselet, Rand Wilcox, Arnaud Delorme, Neurobiology Research Unit, Copenhagen, Denmark
- WTh281 EEG Database for Emotion Recognition across Days**
Zhongyang He, Ning Zhuang, Guangcheng Bao, Ying Zeng, Bin Yan*, PLA Strategic Support Force Information Engineering University, Zhengzhou, China
- WTh282 Correlation: Subjective Well-Being and Frontal Alpha Asymmetry under Varying Environmental Conditions**
Betty Wutzl, Kenji Leibnitz, Masayuki Murata, Osaka University, Suita, Japan
- WTh283 Clock time: a foreign measure to brain dynamics**
Sander van Bree, María Melcón, Luca Kolibius, Casper Kerrén, Maria Wimber, Simon Hanslmayr, University of Glasgow, Glasgow, United Kingdom
- WTh284 Stability and dynamics of a spectral graph model of brain oscillations**
Parul Verma, Srikanth Nagarajan, Ashish Raj, University of California San Francisco, San Francisco, United States
- WTh285 Aperiodic Fluctuations of Neural Activity Correlate with Working Memory Performance**
Luc Wilson, Jason da Silva Castanheria, Sylvain Baillet, McGill University, Montreal, Canada
- WTh286 Modifications of Kuramoto model to account for abnormal EEG synchronization in Schizophrenia**
Ahmed Abdelrazik, Mónica Otero, Caroline Lea-Carnall, Pavel Prado-Gutierrez, Wael El-Deredy, University of Science and Technology in Zewail City, 6th of October, Giza, Egypt
- WTh287 Automatic wavelet-based interictal spike detection**
Fernando Gasca, Michael Wagner, Reyko Tech, Jörn Kastner, Manfred Fuchs, Compumedics Europe GmbH, Hamburg, Germany

- WTh288 A comparison of Multiscale Entropy Measures of EEG Complexity in Autistic Spectrum Conditions (ASC)**
Wenyi Xiao, Elizabeth Milne, Myles Jones, University of Sheffield, Sheffield, United Kingdom
- WTh289 The Importance of Medial Temporal Lobe Theta and Fornix Microstructure in Scene Perception**
Marie-Lucie Read, Andrew Lawrence, Kim Graham, Krish Singh, Katja Umla-Runge, Cardiff University, Cardiff, United Kingdom
- WTh290 Influence of inter-stimulus interval on 40-Hz ASSR: an EEG study with schizophrenic patients**
Kang-Min Choi, Sungkean Kim, Seung-Hwan Lee, Chang-Hwan Im, Hanyang University, Seoul, Korea, Republic of
- WTh291 Hypoxia-induced changes in EEG connectivity: effects of somatosensory entrainment**
Alejandro Weinstein, Wael El-Deredy, Aland Astudillo, Grace Whitaker, Pavel Prado, Universidad de Valparaiso, Valparaiso, Chile
- WTh292 A Convolutional LSTM neural network for single trial latency estimation of ERP components**
Emma Depuydt, Miet De Letter, Pieter van Mierlo, Ghent University, Ghent, Belgium
- WTh293 Interpretable Deep Learning for EEG-Based Brain Mapping**
Maryna Kapitonova, Tonio Ball, UK Freiburg, Freiburg, Germany
- WTh294 Metastable Oscillatory Modes emerge from interactions in the Brain Spacetime Network**
Francesca Castaldo, Joana Cabral, Jakub Vohryzek, Vladimir Litvak, Christian Bick, Renaud Lambiotte, Morten Kringelbach, Gustavo Deco, Karl Friston, University College London, Brighton, United Kingdom
- WTh295 HARTMuT – modeling volume conduction of eye and muscle sources**
Daniel Miklody, Nils Harmening, Marius Klug, Klaus Gramann, Technische Universität Berlin, Berlin, Germany
- WTh296 Unique and Shared Neural Codes in Familiar Face Perception**
Alexia Dalski, Gyula Kovács, Holger Wiese, Géza Gergely Ambrus, Phillips-University Marburg, Marburg, Germany
- WTh297* Pycrostates, a python library to study EEG microstates**
Victor Férat, Mathieu Scheltienne, Tomas Ros, Christoph Michel, University of Geneva, Geneva, Switzerland
- WTh298 Bayesian Multivariate Gaussian Random Walk Regression for ERP Estimation**
Simon Busch-Moreno, Xiao Fu, Etienne Roesch, University of Reading, London, United Kingdom
- WTh299 THE TOPOCHRONIC MAP OF THE LARGE-SCALE BRAIN DYNAMICS**
Pierpaolo Sorrentino, Spase Petkoski, Maddalena Sparaco, Emahnuel Troisi Lopez, Elisabetta Signoriello, Fabio Baselice, Simona Bonavita, Maria Agnese Pirozzi, Mario Quarantelli, Giuseppe Sorrentino, Viktor Jirsa, Aix-Marseille University, Marseille, France
- WTh300 An alternative ERF analysis to access the altered working memory prefrontal network in MS**
Chiara Rossi, Diego Vidaurre, Lars Costers, Fahimeh Akbarian, Marie D'hooghe, Miguel D'haeseleer, Guy Nagels, Jeroen Van Schependom, Vrije Universiteit Brussel VUB, Brussels, Belgium
- WTh301 Modal-Resonance Representation of Evoked Responses in Multiple Arousal States**
Rawan El Zghir, Natasha Gabay, Peter Robinson, The University of Sydney, Sydney, Australia
- WTh302 AEDAPT: democratising MEG and EEG with an open, reproducible, portable analysis platform**
Oren Civier, David White, Aswin Narayanan, Angie Renton, Ryan Sullivan, Will Woods, Paris Lyons, Steffen Bollmann, Tom Johnstone, Swinburne University of Technology, Hawthorn, Australia
- WTh303 Resection of cortical MEG bandpower abnormalities relate to surgical outcome in epilepsy**
Thomas Owen, Sriharsha Ramaraju, Gerard Hall, Vyte Janiukstyte, Yujang Wang, Peter Taylor, Newcastle University, Newcastle Upon Tyne, United Kingdom
- WTh304 Review of Complex Networks for MEG**
Sunhan Shin, Haeji Lee, Jaehee Kim, Duksung Women's University, Seoul, Korea, Republic of
- WTh305 Functional connectivity in spinal cord injury-induced neuropathic pain**
Radha Kumari, Aleksandra Vucković, Mohammed Jarjees, Mariel Purcell, University of Glasgow, Glasgow, United Kingdom
- WTh306 Towards a Simple Model of Large-scale Oscillatory Brain Dynamics**
Francesca Castaldo, Ryan Timms, Mark Woolrich, Karl Friston, Gustavo Deco, Joana Cabral, Vladimir Litvak, University College London, Brighton, United Kingdom
- WTh307 Early changes in brain network coherence underlies spontaneous attentional fluctuation**
Joaquín Herrero Soiza, Rodrigo Henríquez Ch, Pablo Billeke, Reinaldo Uribe, Cristian Cantillano, Pablo Fuentealba, Francisco Aboitiz, Pontificia Universidad Católica, Santiago, Chile
- WTh308 EEG-based tracking of brain networks**
Saurabh Shaw, Margaret McKinnon, Jennifer Heisz, Suzanna Becker, McMaster University, Hamilton, Canada
- WTh309 Noise robustness and information spreading in structured MEG source estimation with a hyperprior**
Kai Miyazaki, Shun Nirasawa, Kazuaki Akamatsu, Okito Yamashita, Yoichi Miyawaki, The University of Electro-Communications, Chofu, Japan
- WTh310 Real-time Analyses of Memory-related Potentials: Implication for Closed-loop Neurofeedback**
Ziming Liu, Yang Jiang, Gregory Jicha, Xiaopeng Zhao, University of Tennessee, Knoxville, United States
- WTh311 The GLM-Periodogram: Multilevel power spectrum analysis with covariate and confound modelling**
Andrew Quinn, Anna Nobre, Mark Woolrich, University of Oxford, Oxford, United Kingdom
- WTh312 Relationship between the aperiodic component of the spectrum and measures of entrainment in the ASSR**
Daniel Borek, Gang Chen, Giovanni Pellegrino, Giorgio Arcara, Daniele Marinazzo, Ghent University, Ghent, Belgium
- WTh313 Abnormal Information Flow in Schizophrenia Predicts Psychosis**
Yingxin Jia, Kiwamu Kudo, Leighton Hinkley, Srikanth Nagarajan, Karuna Subramaniam, UCSF, San Francisco, United States
- WTh314 Time-resolved smoothness tracks conscious states and unifies emergent neural phenomena**
Aditya Nanda, Graham Johnson, Yu Mu, Misha Ahrens, Catie Chang, Dario Englot, Michael Breakspear, Mikail Rubinov, Vanderbilt University, Nashville, United States
- WTh315 Are you missing the trees for the forest? Visualizing trial-level data during iEEG group analysis**
John Magnotti, Zhengjia Wang, Michael Beauchamp, University of Pennsylvania, Philadelphia, United States

WTh316 Twin connectome fingerprinting using global graph measures of the resting-state MEG network
Haatef Pourmotabbed, Dave Clarke, Tyler O'Neill, Elizabeth Tyler-Kabara, Abbas Babajani-Feremi, University of Texas at Austin, Austin, United States

WTh317 A White Matter Ephaptic Coupling Model for 1/f Spectral Densities
Pamela Douglas, Jack Vice, UCF/UCLA, Los Angeles, United States

Exploratory Modeling and Artifact Removal

WTh318 Application-specific structural brain MRI harmonization
Lijun An, Jianzhong Chen, Pansheng Chen, Tong He, Christopher Chen, Juan Helen Zhou, B.T. Thomas Yeo, National University of Singapore, Singapore, Singapore

WTh319 The effect of NORDIC on 3T multi-echo EPI time series
Micah N. Holness, Daniel A. Handwerker, Joshua B. Teves, Andrew T. Morgan, Javier Gonzalez-Castillo, Peter A. Bandettini, National Institutes of Mental Health, Bethesda, United States

WTh320 Mitigation and Characterization of a Multiband fMRI Artifact in Simultaneously Acquired Slices
Philip Tubiolo, John Williams, Jacob Luceno, Jared Van Snellenberg, Stony Brook University, Bayport, United States

WTh321 Domains of Behavior and Psychopathology Derived via Factor Analysis
Mikkel Schöttner, Anjali Nahalka, Thomas Bolton, Jagruti Patel, Patric Hagmann, University of Lausanne, Lausanne, Switzerland

WTh322 Combating Covariate effects (ComCAT) to enhance statistical power in voxel-based morphometry
Tannaz Saraei, Robert Dahnke, Christian Gaser, Jena University Hospital, Jena, Germany

WTh323 A Preliminary Evaluation of Preprocessing Effects on Network Dimensionality and Spatial Maps
Behnaz Jarrahi, Stanford, Palo Alto, United States

fMRI Connectivity and Network Modeling

WTh324 Functional connectivity gradients across the hippocampus during natural memory retrieval
Léonie Borne, Ye Tian, Michelle Lupton, Johan van der Meer, Christine Guo, Gail Robinson, Jurgen Fripp, Andrew Zalesky, Michael Breakspear, University of Newcastle, New Lambton Heights, Australia

WTh325 Mapping Functional Connectivity in the Visual Target Detection Network
Mishal Qubad, Amelie Seeger, Michael Schaum, Benjamin Peters, Alard Roebroek, Andreas Reif, Robert Bittner, Department of Psychiatry, Psychosomatic Medicine and Psychotherapie, University Hospital Frankfurt, Frankfurt, Germany

WTh326 Mindfulness-based therapy changes functional brain reconfiguration between rest and task in elderly
Wan Lin Yue, Francesca Perini, Kwun Kei Ng, Amelia J Koh, Kinjal Doshi, Juan Helen Zhou, Julian Lim, National University of Singapore, Singapore, Singapore

WTh327 Resonant waves underlying long-range correlations in fMRI signals
Joana Cabral, Francisca Fernandes, Noam Shemesh, Champalimaud Research, Champalimaud Centre for the Unknown, Braga, Portugal

WTh328 Harmonizing Functional Connectivity Reduces Scanner Effects in Community Detection
Andrew Chen, Dhivya Srinivasan, Raymond Pomponio, Yong Fan, Ilya Nasrallah, Susan Resnick, Lori Beason-Held, Christos Davatzikos, Theodore Satterthwaite, Danielle Bassett, Russell Shinohara, Haochang Shou, University of Pennsylvania, Newtown Square, United States

WTh329 Data and model considerations for estimating time-varying functional connectivity in fMRI
Christine Ahrends, Angus Stevner, Usama Pervaiz, Morten Kringelbach, Peter Vuust, Mark Woolrich, Diego Vidaurre, Aarhus University, Aarhus, Denmark

WTh330 Controllability of the Infant's Brain
Huili Sun, Alexander Dufford, Shi Gu, Dustin Scheinost, Yale University, New Haven, United States

WTh331 Static null models reproduce edge time series bipartitions and co-activation patterns properties
Leonardo Novelli, Adeel Razi, Monash University, Clayton, Australia

WTh332 Exploring evolutionary constraints on human connectomes through randomized networks
Jayson Jeganathan, Michael Breakspear, The University of Newcastle, New Lambton Heights, Australia

WTh333 Meta-Analytic Connectivity Modeling for a Superordinate Cognitive Control Network
Samantha Natal, Kimberly Ray, David Schnyer, The University of Texas at Austin, Austin, United States

WTh334 How conscious thoughts during "resting-state" affect functional connectivity estimates
Javier Gonzalez-Castillo, Megan Spurney, Ka Chun Lam, Daniel Handwerker, Joshua Teves, Francisco Pereira, Peter Bandettini, National Institute of Mental Health, Bethesda, United States

WTh335 Time-varying functional connectivity synchronizes between individuals during movie watching
Basak Turker, Adrian Owen, Lorina Naci, Jacobo Sitt, Paris Brain Institute, Paris, France

WTh336 Sleep, Nap, and Wake alters Functional Connectivity for the Consolidation of Problem-Solving Skills
Nicholas van den Berg, Dylan Smith, Zhuo Fang, Alyssa Pozzobon, Laura Ray, Stuart Fogel, University of Ottawa, Ottawa, Canada

WTh337 Altered resting-state functional connectome in major depressive disorder: a PsyMRI study
Nooshin Javaheripour, Meng Li, Tara Chand, Axel Krug, Tilo Kircher, Udo Dannlowski, Igor Nenadic, Paul Hamilton, Matthew Sacchet, Ian Gotlib, Simone Grimm, Ben Harrison, Robert Wolf, Sebastian Olbrich, Guido van Wingen, Lukas Pezawas, Gordon Parker, Matthew Hyett, Philipp Sämann, Tim Hahn, Andreas Jansen, Christopher Davey, Bernhard Meyer, Lucie Bartiva, Ilona Croy, Martin Walter, Gerd Wagner, Department of Psychiatry and Psychotherapy, Jena University Hospital, Jena, Germany

WTh338 High-dimensional probabilistic functional modes reveal a novel hybrid parcellation
Seyedeh-Rezvan Farahibozorg, Samuel Harrison, Janine Bijsterbosch, Mark Woolrich, Stephen Smith, University of Oxford, Oxford, United Kingdom

WTh339 Can fMRI functional connectivity index dynamic neural communication?
Sonsoles Alonso Martinez, Alberto Llera, Gert Ter Horst, Diego Vidaurre, Aarhus University, Aarhus, Denmark

WTh340 A scale-invariant perturbative approach to study information communication in dynamic brain networks
Varun Madan Mohan, Arpan Banerjee, National Brain Research Centre, Manesar, India

- WTh341*** **Network structure and transcriptomic vulnerability shape atrophy in frontotemporal dementia**
Golia Shafiei, Vincent Bazinet, Mahsa Dadar, Ana Manera, Louis Collins, Alain Dagher, Barbara Borroni, Raquel Sanchez-Valle, Fermin Moreno, Robert Laforce, Caroline Graff, Matthias Synofzik, Daniela Galimberti, James Rowe, Mario Masellis, Maria Tartaglia, Elizabeth Finger, Rik Vanderberghe, Alexandre de Mendonça, Fabrizio Tagliavini, Isabel Santana, Chris Butler, Alexander Gerhard, Adrian Danek, Johannes Levin, Markus Otto, Sandro Sorbi, Lise Jiskoot, Harro Seelaar, John van Swieten, Jonathan Rohrer, Bratislav Mistic, Simon Ducharme, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- WTh342** **A precision fMRI examination of individual differences in brain networks in schizophrenia**
Alexis Porter, Ally Dworetzky, Brian Kraus, Timothy Laumann, Benjamin Seitzman, Deanna Barch, Caterina Gratton, Northwestern University, Oak Park, United States
- WTh343** **Mapping electromagnetic networks to haemodynamic networks in the human brain**
Golia Shafiei, Sylvain Baillet, Bratislav Mistic, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- WTh344** **Improving power with broader-scale inference—is it worth the reduction in specificity?**
Stephanie Noble, Amanda Mejia, Andrew Zalesky, Dustin Scheinost, Yale University, New Haven, United States
- WTh345** **Effect of income-to-needs and baseline functional connectivity on brain network changes in childhood**
Claire Campbell, Katherine Bottenhorn, Carlos Cardenas-Iniguez, Megan Herting, University of Southern California, Los Angeles, United States
- WTh346** **Similarity in evoked responses does not imply similarity in macroscopic network states across tasks**
Javier Rasero, Richard Betzel, Amy Sentis, Thomas Kraynak, Peter Gianaros, Timothy Verstynen, Carnegie Mellon University, Pittsburgh, United States
- WTh347** **Multimodel order spatially constrained ICA reveals replicable and consistent results in resting data**
Xing Meng, Armin Iraj, Jing Sui, Vince Calhoun, GSU, Fremont, United States
- WTh348** **The effect of structural connectome estimation in modelling whole-brain functional dynamics**
Yi Ming Lai, Michael Forrester, Stephen Coombes, Stamatios Sotiropoulos, University of Nottingham, Nottingham, United Kingdom
- WTh350** **Relationship of functional connectivity and functional covariance varies across brain networks**
Lucas Sainburg, Baxter Rogers, Catie Chang, Dario Englot, Victoria Morgan, Vanderbilt University, Nashville, United States
- WTh351*** **Shared brain and genetic architectures between mental health and physical activity**
Wei Zhang, Sarah Paul, Anderson Winkler, Ryan Bogdan, Janine Bijsterbosch, Washington University in St. Louis, St. Louis, United States
- WTh352** **Individual differences in functional network organization are stable across many years**
Ally Dworetzky, Alexis Porter, Sihan Fei, Benjamin Seitzman, Babatunde Adeyemo, Jessica Cohen, Mark D'Esposito, Steven Petersen, Caterina Gratton, Northwestern University, Chicago, United States
- WTh353** **Abnormal Functional Network Dynamics Implicate Post-TBI Attention Deficits in Children**
Meng Cao, Jeffery Halperin, Xiaobo Li, New Jersey Institute of Technology, Fair Lawn, United States
- WTh354** **Network dynamics during the encoding and retrieval of associative memories in schizophrenia**
Kalyanee Nanaaware, Asadur Chowdury, Shahira Baajour, Jeffrey Stanley, Vaibhav Diwadkar, Wayne State University, Detroit, United States
- WTh355** **Cortico-cortical and cortico-subcortical functional connectivity alterations in migraine**
Chae Hyeon Lee, Mi Ji Lee, Bo-yong Park, Inha university, Incheon, Korea, Republic of
- WTh356** **Network level analysis provides a framework for biological interpretation of machine learning result**
Jiaqi Li, Kelsey King, Ari Segel, Babatunde Adeyemo, Likai Chen, Adam Eggebrecht, Muriah Wheelock, Washington University in St. Louis, St. Louis, United States
- WTh357** **Deep learning segmentation for fMRI gray matter based on 3D U-Net**
Siyuan Tian, Russell Butler, Bishop's University, Sherbrooke, Canada
- WTh358** **Rest-activity rhythm stability and functional network interactions during episodic retrieval**
Megan McMahon, Kimberly Ray, David Schnyer, University of Texas at Austin, Austin, United States
- WTh359** **Classification of Patients with Mild Depression and Healthy Subjects Using Brain Network Topology**
Wasana Ediri Arachchi, Indika Mudalige, Li Dongyue, General Sir John Kotelawala Defence University, Matara, Sri Lanka
- WTh360** **Effective Connectivity of Emotional Health in Traumatic Brain Injury after a Treatment with rTMS**
Tajwar Sultana, Muhammad Abul Hasan, Xiaojian Kang, Victoria Liou-Johnson, Maheen Adamson, Adeel Razi, NED University of Engineering and Technology, Karachi, Pakistan
- WTh361** **The complexity of phase-based state dynamics during rest influences behavior**
Danielle Kurtin, Henry Hebron, Gregory Scott, Ines Violante, University of Surrey, London, United Kingdom
- WTh362** **Compromised controllability of emergent brain dynamics in patients with disorders of consciousness**
Andrea Luppi, Pedro Mediano, Fernando Rosas, Judith Allanson, John Pickard, Guy Williams, Michael Craig, Paola Finoia, Alexander Peattie, Peter Coppola, David Menon, Daniel Bor, Emmanuel Stamatakis, Cambridge University, Cambridge, United Kingdom
- WTh363** **BOLD confluctuation “events” are predicted from static functional connectivity**
Zach Ladwig, Caterina Gratton, Benjamin Seitzman, Steven Petersen, Ally Dworetzky, Babatunde Adeyemo, Derek Smith, Yuhua Yu, Northwestern University, Chicago, United States
- WTh364** **Endocrine sources of within-individual brain network variability**
Katherine Bottenhorn, Taylor Salo, Michael Riedel, Robert Laird, Angela Laird, University of Southern California, Los Angeles, United States
- WTh365** **Prediction of subclinical depression from whole brain functional connectomes**
Yunkai Zhu, Zachary Goodman, Lucina Uddin, Andrew Dykstra, Jason Nomi, University of Miami, South Miami, United States
- WTh366** **Fine-grained Network Analysis using Connectivity-based Hyperaligned fMRI data**
Farzad V. Farahani, Martin Lindquist, Tor Wager, Johns Hopkins Bloomberg School of Public Health, Baltimore, United States

- WTh367 Dynamic spatiotemporal interactions in vestibular network affected by concussive syndromes**
Nan Xu, Jeremy Smith, Jason Allen, Shella Keilholz, Emory University/Georgia Institute of Technology, Atlanta, United States
- WTh368 Evolutionary shaping of human brain dynamics**
James Pang, James Rilling, James Roberts, Martijn van den Heuvel, Luca Cocchi, Monash University, Clayton, Australia
- WTh369 Exploring Relay Communication Pathways in Mammalian Brain Networks**
Alessandra Griffa, Mathieu Mach, Gilles Allali, Joanes Grandjean, Dimitri Van De Ville, Enrico Amico, University of Geneva, Geneva, Switzerland
- WTh370 Signatures of the brain: fingerprinting and task decoding with structure-function coupling**
Alessandra Griffa, Enrico Amico, Raphael Liegeois, Dimitri Van De Ville, Maria Giulia Preti, Institute of Bioengineering, Center for Neuroprosthetics, EPFL, Geneva, Switzerland
- WTh371 Reliability and subject specificity of personalized whole-brain dynamical models**
Justin Domhof, Simon Eickhoff, Oleksandr Popovych, INM-7, Forschungszentrum Jülich, Sittard, Netherlands
- WTh372 Automatic detection of spatio-temporal patterns of interictal epileptic activity with fMRI**
Cristina Tobias, Eneko Uruñuela, Vicente Ferrer-Gallardo, Hannah Goldberg, Mark Lowe, Stephen Jones, César Caballero-Gaudes, Basque center on cognition brain and language, San Sebastian, Spain
- WTh373 Clustintime – a computational and visualization tool for time clustering of fMRI data**
Cristina Tobias, Eneko Uruñuela, César Caballero-Gaudes, Vicente Ferrer-Gallardo, Basque center on cognition brain and language, San Sebastian, Spain
- WTh374 Brain network connectivity and Alzheimer's disease genetic risk factor**
Aida Fall, Maria Giulia Preti, Dimitri Van De Ville, Paul Unschuld, University of Geneva, Geneva, Switzerland
- WTh375 DMN Subregional Connectivity Associate with Sleep Quality: A Preliminary Resting-state fMRI Study**
Tengmao Yao, Ming-Kang Li, Yu-Tang Tung, Fan-Chi Hsiao, Li-Yen Kuo, Hsin-Chien Lee, Changwei Wu, Taipei Medical University, Taipei, Taiwan
- WTh376 Effect of Transcutaneous auricular vagus nerve stimulation on Migraine: A resting-state fMRI study**
Yunpeng Zhu, Huiyuan Huang, Bingqing Jiao, Jiabao Lin, Lijun Ma, Guangzhou University of Chinese Medicine, Guangzhou, China
- WTh377 Laminar level subcortico-cortical interactions during naturalistic movie viewing**
Burak Akin, Kenshu Koiso, Richard Klein, Daniel Handwerker, Renzo Huber, Peter Bandettini, NIMH, Bethesda, United States
- WTh378 Visuomotor resting-state connectivity predicts hand motor outcome after stroke**
Firdaus Fabrice HANNANU, Bernadette Naegele, Marc Hommel, Alexandre Krainik, Olivier Detante, FLore Baronnet, Charlotte Rosso, Assia Jaillard, Ageis, Grenoble, France
- WTh379 Time-varying multilayer brain connectivity analysis in Alzheimer's Disease using functional data**
Anna Canal-Garcia, Dániel Veréb, Mite Mijalkov, Giovanni Volpe, Joana B. Pereira, Karolinska Institutet, Stockholm, Sweden
- WTh380 Baseline functional connectivity as predictor of response to mind-body treatments for Fibromyalgia**
Sonia Medina, Owen O'Daly, Albert Feliu-Soler, Juan Vicente Luciano, Matthew Howard, King's College London, London, United Kingdom
- WTh381 Functional connectivity and its association with Tau spread and amyloid status**
Saina Asadi, Federica Ribaldi, Szymon Tomczyk, Daniele Altomare, Michela Pievani, Max Scheffler, Karl-Olof Lovblad, Giovanni Frisoni, Enrico Amico, Valentina Garibotto, Sara Stampacchia, University of Geneva, Geneva, Switzerland
- WTh382 Large scale brain organization of anti-correlated networks and their variations in the aging brain**
Endika Martinez, Antonio Marín, Sebastiano Stramaglia, Jesus Cortes, Biocruces health research institute, Barakaldo, Spain
- WTh383 Intrinsic dynamic functional connectivity in brain gliomas**
Francesca Saviola, Luca Zigiotta, Stefano Tambalo, Luciano Annicchiarico, Francesco Corsini, Umberto Rozzanigo, Silvio Sarubbo, Jorge Jovicich, University of Trento, Rovereto, Italy
- WTh384 Functional Gradients in the Human Connectome are Transcendental**
Karl-Heinz Nenning, Ting Xu, Alexandre Franco, Khena Swallow, Daniel Margulies, Stanley Colcombe, Michael Milham, Nathan S. Kline Institute for Psychiatric Research, Orangeburg, United States
- WTh385 Comparison of methods for building whole-brain task-related functional connectivity matrices**
Ruslan Masharipov, Irina Knyazeva, Alexander Korotkov, Denis Cherednichenko, Maxim Kireev, N. P. Bechtereva Institute of the Human Brain, Saint-Petersburg, Russian Federation
- WTh386 Assessment of whole brain functional dynamics in glioma patients through Hidden Markov Models**
Manuela Moretto, Erica Silvestri, Mariagiulia Anglani, Silvia Facchini, Diego Cecchin, Maurizio Corbetta, Alessandra Bertoldo, University of Padova, Padova, Italy
- WTh387 Dynamic sensitivity analysis: Assessing brain state transitions via whole brain modelling**
Jakub Vohryzek, Joana Cabral, Louis-David Lord, Henrique Fernandes, Gustavo Deco, Morten Kringelbach, Universidad Pompeu Fabra, Barcelona, Spain
- WTh388 Default mode connectivity tracks Alzheimer's biomarkers in a racially diverse middle-age cohort**
Maria Misiura, Danielle Verble, Henrik Zetterberg, Chinkuli Munkombwe, William Hu, Vonetta Dotson, Whitney Wharton, Georgia State University, Marietta, United States
- WTh389 Abnormal functional organization of the anterior temporal lobes in autism spectrum disorder**
Andrew Persichetti, Jiayu Shao, Joseph Denning, Stephen Gotts, Alex Martin, National Institute of Mental Health, Bethesda, United States
- WTh390 Mind the gap: functional network connectivity interpolation using variational autoencoder**
Xinhui Li, Eloy Geenjaer, Zening Fu, Sergey Plis, Vince Calhoun, Georgia Institute of Technology, ATLANTA, United States
- WTh391 Systematic within-node functional connectivity changes observed across tasks or groups**
Wenjing Luo, R. Todd Constable, Yale University, New Haven, United States
- WTh392 Preprocessing Impacts Time-varying Patterns of Functional Network Connectivity & Meta-state Metrics**
Behnaz Jarrahi, Stanford, Palo Alto, United States

- WTh393*** **Neural dynamics in a low-dimensional state space reflect cognitive and attentional dynamics**
Hayoung Song, Won Mok Shim, Monica Rosenberg, University of Chicago, Chicago, United States
- WTh394** **An fMRI Connectivity Study of Brain Networking for Scientific Conceptions and Misconceptions**
Hsiao-Ching She, Li-Yu Huang, Jeng-Ren Duann, Robasa Nababan, Meng-Jun Chen, Ching-Ying Hsueh, National Yang Ming Chiao Tung University, Hsinchu City, Taiwan
- WTh395** **The neuromodulatory systems underpins dynamic shifts in networks & attractor landscape topography**
Natasha Taylor, Arkiev D'Souza, Brandon Munn, Laszlo Zaborszky, Gabriel Wainstein, Fernando Calamante, James Shine, The University of Sydney, Camperdown, Australia
- WTh396** **Altered network topology in patients with visual snow syndrome: a resting-state fMRI study at 7T**
Myrte Strik, Meaghan Clough, Emma Solly, Rebecca Glarin, Owen White, Scott Kolbe, Joanne Fielding, University of Melbourne, Melbourne, Australia
- WTh397** **Empirical neural network-based brain states correlate with spatial orientation task performance**
Robert Englert, Balint Kincses, Raviteja Kotikalapudi, Giuseppe Gallitto, Kevin Hoffschlag, Tamas Spisak, University Hospital Essen, Germany, Essen, Germany
- WTh398** **Metastable resting state network dynamics in healthy neonates**
Arun Bokde, Megan Ni Bhroin, Trinity College Dublin, Dublin, Ireland
- WTh399** **Fingerprints of brain disease: connectome identifiability during cognitive decline**
Sara Stampacchia, Saina Asadi, Szymon Tomczyk, Federica Ribaldi, Max Scheffler, Karl-Olof Lovblad, Michela Pievani, Giovanni Frisoni, Valentina Garibotto, Enrico Amico, University of Geneva and Geneva University Hospital, Geneva, Switzerland
- WTh400** **The impact of negative correlations on macroscopic functional brain networks**
Katharina Glomb, Zachery Morrissey, Igor Fortel, Paul Thomas, Liang Zhan, Petra Ritter, Alex Leow, Berlin Institute of Health/Charite, Berlin, Germany
- WTh401** **Functional Connectivity during Normal Ageing: an Intermediate Study of a 10-year Longitudinal Cohort**
Aurelie Lebrun, Jean-François Mangin, Alexandre Vignaud, Antoine Grigis, Jean-Robert Deverre, Marie Sarazin, Lucie Hertz-Pannier, Michel Bottlaender, Yann LePrince, NeuroSpin, CEA, Université Paris-Saclay, F-91191, Gif-sur-Yvette, France
- WTh402** **Altered functional brain states predict cognitive decline in early Multiple Sclerosis**
Ismail Koubiyr, Tommy Broeders, Mathilde Deloire, Bruno Brochet, Thomas Tourdias, Jeroen Geurts, Menno Schoonheim, Aurélie Ruet, Amsterdam UMC, Saint Médard En Jalles, France
- WTh403** **Altered Dynamic Functional Network Connectivity in Post-stroke Dementia with Subcortical Lesion**
Qianwen Wu, Huaying Cai, Linhui Ni, Guocan Han, Zhiyong Zhao, Dan Wu, University of Oxford, Oxford, United Kingdom
- WTh405** **Quantifying the Effect of Tau Pathology on Brain activity using Modeling**
Xenia Kobeleva, Gustavo Patow, Petra Ritter, Gustavo Deco, German Center of Neurodegenerative Diseases, Bonn, Germany
- WTh406** **Unraveling the relation between effective and structural connectivity in the mouse brain**
Danilo Benozzo, Giorgia Baron, Elvina Gindullina, Ludovico Coletta, Mattia Zorzi, Maurizio Corbetta, Alessandro Gozzi, Alessandro Chiuso, Alessandra Bertoldo, University of Padova, Padova, Italy
- WTh407** **Altered effective connectivity of the ascending thalamocortical relay in OCD revealed by DCM**
Mario Yacou, Asadur Chowdury, Vaibhav Diwadkar, Wayne State University, Sterling Heights, United States
- WTh408** **Echo time matters: EPI parameter choice and the reliability of functional connectivity**
Maria Vasileiadi, Martin Tik, Michael Woletz, David Linhardt, Christian Windischberger, Medical University of Vienna, Vienna, Austria
- WTh409** **Abnormal temporal organization of dynamic functional connectivity in first-episode psychosis**
Juan Ramirez-Mahaluf, Ángeles Tepper, Luz Alliende, Carlos Mena, Carmen Castañeda, Barbara Iruretagoyena, Ruben Nachar, Francisco Reyes-Madrigal, Pablo León-Ortiz, Ricardo Mora-Durán, Tomas Ossandon, Alfonso Gonzalez-Valderrama, Juan Undurraga, Camilo de la Fuente-Sandoval, Nicolas Crossley, Pontificia Universidad Católica de Chile, Santiago, Chile
- WTh410** **VB Cut: a measure of local correlations in brain function**
Christine Farrugia, Paola Galdi, Irati Arenzana Irazu, Kenneth Scerri, Claude Bajada, University of Malta, Imsida, Malta
- WTh411** **Functional Segregation in Asymptomatic Midlife Individuals at Genetic Risk for Alzheimer's Disease**
Feng Deng, Lorina Naci, Trinity College Dublin, Dublin, Ireland
- WTh412** **Effects of cannabis use on age related striatal and cortical resting-state functional connectivity**
Natalie Ertl, Will Lawn, Claire Mokrysz, Tom Freeman, Naji Alnagger, Katie Trinci, Rachel Lees, Anya Borissova, Kath Petrilli, Shelan Ofori, Valarie Curran, Matthew Wall, Invicro, London, United Kingdom
- WTh413** **Connectome-based predictive modelling of stop-signal-task performance across adolescence**
Yihe Weng, Rory Boyle, Laura M. Rueda-Delgado, Johann D. Kruschwitz, Robert Whelan, the IMAGEN consortium, Trinity College Dublin, Dublin, Ireland
- WTh414** **A formal set of criteria for the quality control of mouse fMRI datasets during network analysis**
Gabriel Desrosiers-Gregoire, Gabriel Devenyi, Joanes Grandjean, Mallar Chakravarty, McGill University, Montreal, Canada
- WTh415** **PHOTONAI-Graph – A Python Toolbox for Graph Machine Learning on Neuroimaging Data**
Vincent Holstein, Jan Ernsting, Ramona Leenings, Nils Winter, Lukas Fisch, Kelvin Sarink, Lucas Plagwitz, Marco Mauritz, Jonathan Repple, Udo Dannlowski, Tim Hahn, University of Muenster, Muenster, Germany
- WTh416** **Pre-surgical connectome of intrinsic extra-temporal networks predict multiple post-surgical outcomes**
Walter Hinds, Shilpi Modi, Kapil Chaudary, Andrew Crow, Michael Sperling, Joseph Tracy, Ankeeta Ankeeta, Thomas Jefferson University, Philadelphia, United States
- WTh417** **Asymmetries of functional network variants suggest hemispheric constraints on individual differences**
Diana Perez Rivera, Ally Dworetzky, Rodrigo Braga, Mark Beeman, Caterina Gratton, Northwestern University, Chicago, United States
- WTh418** **Longitudinal evolution of brain activity dynamics in recovery from ischemic pontine stroke**
Emily Olafson, Georgia Russello, Keith Jamison, Hesheng Liu, Danhong Wang, Joel Bruss, Aaron Boes, Amy Kuceyeski, Weill Cornell Medicine, Ithaca, United States

- WTh419** **Exploration of subcortical functional connectivity for therapeutic neuromodulation targeting**
Morgan Cambareri, Jian Li, Laura Lewis, Brian Edlow, Massachusetts General Hospital, Cambridge, United States
- WTh420** **Influence of network size on identifiability by functional brain connectivity in movies and rest**
Jean-Philippe Kröll, Chenyue Wan, Xuan Li, Patrick Friedrich, Lisa Mochalski, Kaustubh R. Patil, Xing Qian, Michael WL Chee, Kian Foong Wong, Amelia J Koh, Juan Helen Zhou, Simon Eickhoff, Susanne Weis, Institute of Neuroscience and Medicine, INM-7: Brain & Behaviour, Jülich, Germany
- WTh421** **Generalizability of dynamic brain parcels across movies and tasks in a deep individual fMRI dataset**
Pierre Bellec, Amal Boukhdhir, Francois Paugam, Hanad Shamarke, Yu Zhang, Desiree Lussier, CRIUGM, University of Montreal, Montreal, Canada
- WTh422** **Chronic pain in military Veterans is associated with decreased functional connectivity in insula**
Jadwiga Rogowska, Margaret Legarreta, Erin McGlade, Deborah Yurgelun-Todd, University of Utah, Salt Lake City, United States
- WTh423** **Time varying dynamics of hallucinations in clinical and non-clinical voice hearers**
Theresa Marschall, Branislava Ćurčić-Blake, Sanne Schuite-Koops, Iris Sommer, University Medical Center Groningen, Groningen, Netherlands
- WTh424*** **Long-range functional connections mirror and link microarchitecture and cognitive hierarchies**
Yezhou Wang, Jessica Royer, Bo-yong Park, Reinder Vos de Wael, Sara Larivière, Shahin Tavakol, Raul Rodríguez-Cruces, Casey Paquola, Seok-Jun Hong, Daniel Margulies, Jonathan Smallwood, Sofie Valk, Alan Evans, Boris Bernhardt, McGill University, Montreal, Canada
- WTh425** **Higher-order interactions between brain regions are better at profiling tasks**
Manish Sagar, Richard Betzel, Jeremy Manning, Raphael Liegeois, Olaf Sporns, Giovanni Petri, Stanford University, Stanford, United States
- WTh426** **Dysconnectomes as sets of lost features: An application to learning and memory in schizophrenia**
Hailey Amouri, Asadur Chowdury, John Kopchick, Jeffrey Stanley, Vaibhav Diwadkar, Wayne State University School of Medicine, Bloomfield Hills, United States
- WTh427** **Neurocognitive effects of opiate withdrawal on working memory in treatment seeking opioid users**
Britni Surprenant, Jade Dandurand, Timothy Wagner, Kristin Grimone, Heidi Sarles-Whittlesey, Erin Jones, Debra herman, Michael Stein, Lawrence Sweet, University of Georgia, Athens, United States
- WTh428** **Resting state dynamics from the perspective of structured flows on manifolds**
Jan Fousek, Giovanni Rabuffo, Kashyap Gudibanda, Hiba Sheheitli, Spase Petkoski, Viktor Jirsa, Aix-Marseille University, Marseille, France
- WTh429** **Trait anxiety: functional connectivity during resting state using independent component analysis**
Asier Juaneda-Seguí, Víctor De la Peña-Arteaga, Ana Chavarría-Elizondo1, Ignacio Martínez-Zalacaín, María Picó-Pérez, Pedro Morgado, José Menchón, Miquel Fullana, Carles Soriano-Mas, CIBERSAM-IDIBELL, Barcelona, Spain
- WTh430** **Analysis of multi-network brain spatio-temporal dynamism in schizophrenia using deep residual model**
Behnam Kazemivash, Vince Calhoun, Georgia State University, Atlanta, United States
- WTh431** **Towards clinical translation of default mode subcortical targeting for therapeutic neuromodulation**
Jian Li, Morgan Cambareri, Bastien Guerin, Darin Dougherty, Adrian Dalca, Bruce Fischl, Andreas Horn, Brian Edlow, A. A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Boston, United States
- WTh432** **Network effects in rsfMRI between multiple sclerosis using individually matched controls**
Ajay Nemani, Mark Lowe, Katherine Koenig, Xuemei Huang, Cleveland Clinic, Cleveland, United States
- WTh433** **Estradiol and progesterone relate to brain state dynamics**
Elaine Wu, Emily Olafson, Elvisha Dhamala, Laura Pritschet, Tyler Santander, Emily Jacobs, Amy Kuceyeski, Cornell University, Ithaca, United States
- WTh434** **Convergence of Structural and Functional Change in a Network Model of Medial Temporal Lobe Epilepsy**
Jonathan Towne, Vahid Eslami, José Cavazos, Peter T. Fox, University of Texas Health Science Center at San Antonio, San Antonio, United States
- WTh435** **Neural and Psychological Correlates of Post-Traumatic Stress Symptoms in a Normative Adult Sample**
Sierra Bainter, Lauren Kupis, Zachary Goodman, Lucina Uddin, Kiara Timpano, University of Miami, Coral Gables, United States
- WTh436** **Dynamic Spectral Coupling in Resting-State fMRI Reveals Domain Specific Patterns in Schizophrenia**
Deniz Alacam, Robyn Miller, Aysenil Belger, Juan Bustillo, Judith Ford, Kelvin Lim, Daniel Mathalon, Bryon Mueller, Daniel O'Leary, Steven Potkin, Adrian Preda, Theo Van Erp, Vince Calhoun, Georgia State University, Atlanta, United States
- WTh437** **A multi-echo FMRI processing demo including TEDANA in afni_proc.py pipelines**
Paul Taylor, Stephen Gotts, Adrian Gilmore, Joshua Teves, Richard Reynolds, NIH, Bethesda, United States
- WTh438** **Functional heterogeneity in the posterior medial parietal cortex is associated with cognition**
Dániel Veréb, Joana B. Pereira, Karolinska Institutet, Stockholm, Sweden
- WTh439** **Employing co-activation pattern analysis to obtain dynamic functional segmentation of human thalamus**
Farnaz Delavari, Thomas Bolton, Corrado Sandini, Stephan Eliez, Dimitri Van De Ville, University of Geneva, Geneva, Switzerland
- WTh440** **Altered functional network segregation and cognitive recovery in NREM sleep after sleep deprivation**
Yimeng Wang, Kangjoo Lee, Nathan Cross, Aude Jegou, Fatemeh Razavipour, Florence Pomares, Aurore Perrault, Alex Nguyen, Umit Aydin, Thien Thanh Dang-Vu, Christophe Grova, Concordia University, Montreal, Canada
- WTh441** **Alterations in whole-brain network connectivity in adults with a history of child abuse**
Isabella Breukelaar, Mayuresh Korgaonkar, Kim Felmingham, Leanne Williams, Richard Bryant, University of New South Wales, Westmead, Australia

WTh442 Cognitive correlates of age/sex differences in functional connectivity after traumatic brain injury
Phoebe Imms, Anar Amgalan, Alexander Maher, Michelle Ha, Timothy Fanelle, Andrei Irimia, Leonard Davis School of Gerontology, University of Southern California, Los Angeles, United States

WTh443 Sex and age differences in resting state functional connectivity networks after mild traumatic brain
Anar Amgalan, Alexander Maher, Michelle Ha, Timothy Fanelle, Andrei Irimia, University of Southern California, Los Angeles, United States

WTh444 Identifying Hidden Dynamics in rs-fMRI Analysis Using a Novel Unsupervised Feature Learning Approach
Charles Ellis, Mohammad Sendi, Robyn Miller, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States

WTh445 Blind estimation of neuronal-related activity in fMRI informed by co-fluctuations of brain regions
Eneko Uruñuela, Vicente Ferrer, César Caballero-Gaudes, Basque Center on Cognition, Brain and Language, Donostia – San Sebastián, Spain

WTh446 Links Across Mesoscale Connectivity: Exploring HCP's Group ICA Parcellations Across Model Orders
Rajat Mittal, Lisa Nickerson, Harvard University / McLean Hospital, Cambridge, United States

WTh447 Examining dynamic changes in modular brain organization in US military personnel with blast vs. non-
Amy Ramage, Jessica Leach, Hannah Franz, Kimberly Ray, Don Robin, University of New Hampshire, Durham, United States

WTh448 Clinical characterization of Hypoxic Ischemic Encephalopathy in Pediatric Non-fatal drowning
Muslima Razaqyar, Jonathan Towne, Mariam Ishaque, Florence Chiang, Peter Fox, UT Health SA, San Antonio, United States

WTh449 Meta-Analytic Connectivity Modeling of Psychopathic Inmate and Non-inmate Functional Networks
Savannah Salvage, Sarah Meier, Kimberly Ray, Don Robin, University of New Hampshire, Durham, United States

WTh450 Automatic Seed Generation for Resting State fMRI Data Analysis by Using Machine Learning
Mingyi Li, Katherine Koenig, Jian Lin, Mark Lowe, Cleveland Clinic, Cleveland, United States

WTh451* Establishing a critical time window for metabolic control of brain aging
Botond Antal, Helena van Nieuwenhuizen, Bartosz Kula, Antoine Hone-Blanchet, Corey Weistuch, Liam McMahan, Andrew Lithen, Eva-Maria eratai@mgh.harvard.edu, Nathan Smith, Lilianne Mujica-Parodi, Stony Brook University, Somerville, United States

WTh452 New activity flow mapping over probabilistic functional connectivity
Hengcheng Zhu, Ziyi Huang, Yifeixue Yang, Kaiqiang Su, Mingxia Fan, Ting Li, Dazhi Yin, East China Normal University, Shanghai, China

WTh453 Spatio-temporal dynamics during naturalistic viewing
Charles Laidi, Xinhui Li, Karl-Heinz Nenning, Michael Milham, Ting Xu, Child Mind Institute, New York, United States

WTh454 Mapping the Circuitry of Medial Fronto-Parietal Networks to Theory of Mind Processing
Sergey Chernyak, Lisa Nickerson, McLean Hospital, Belmont, United States

Image Registration and Computational Anatomy

WTh455 Impact of defacing a brain MRI scan on automated brain atrophy estimation
Christian Rubbert, Luisa Wolf, Marius Vach, Bernd Turowski, Dennis Hedderich, Christian Gaser, Robert Dahnke, Julian Caspers, Institut für Diagnostische und Interventionelle Radiologie, University Hospital Düsseldorf, Düsseldorf, Germany

WTh456 Sulcal-based alignment of postmortem human brains used to build the Jülich cytoarchitectonic atlas
Xiaoyu Wang, Yann LePrince, Jessica Leberberg, Hartmut Mohlberg, Denis Rivière, Guillaume Auzias, Timo Dickscheid, Katrin Amunts, Jean-François Mangin, Neurospin CEA Paris-Saclay, Paris, France

WTh457 Data-driven histological mapping of the human amygdala
Hans Auer, Jessica Royer, Oualid Benkarim, Jordan DeKraker, Casey Paquola, Sofie Valk, Boris Bernhardt, McGill University, Westmount, Canada

WTh458 Grey Matter Changes After Mindfulness In Breast Cancer Survivors With Cognitive Complaints
Michelle Melis, Jeroen Blommaert, Evelyne Dussault, Andrew Palmer, Ann Smeets, Katleen Van der Gucht, Stefan Sunaert, Sabine Deprez, KU Leuven, Leuven, Belgium

WTh459 CAT12 operating with the phantom: On cortical folding measures
Robert Dahnke, Simon Eskildsen, Christian Gaser, Jena University Hospital, Jena, Germany

WTh460 Super Resolution Improves Cortical Segmentation Accuracy in Ultra-high Resolution MRI
Qi Wang, Julius Steiglechner, Klaus Scheffler, Gabriele Lohmann, Max Planck Institute for Biological Cybernetics, Tübingen, Germany

WTh461 Late fetal to neonatal brain growth deepens the interhemispheric asymmetry of the perisylvian area
Céline Steger, Kelly Payette, Alexandra De Silvestro, The Dao Nguyen, Giancarlo Natalucci, Raimund Kottke, Ruth O'Gorman Tuura, Walter Knirsch, Andras Jakab, University of Zurich, Zurich, Switzerland

WTh462 Is change the only constant? Dealing with different longitudinal MRI data in CAT12
Christian Gaser, Robert Dahnke, The ADNI, Jena University Hospital, Jena, Germany

WTh463 Age-related effect on cortical thickness estimates derived from different tools
Giulia Debiasi, Ilaria Mazzonetto, Alessandra Bertoldo, University of Padova, Padova, Italy

WTh464 Testing the long-term reproducibility of fMRIPrep results
Yohan Chatelain, Loic Tetrel, Christopher Markiewicz, Gregory Kiar, Oscar Esteban, Pierre Bellec, Tristan Glatard, Concordia University, Montreal, Canada

WTh465 Normalization of Pathological Brains: Insights from Shunt-Treated Pediatric Hydrocephalus
Renee-Marie Ragguett, Roy Eagleson, Sandrine de Ribaupierre, Western University, London, Canada

Methods Development

- WTh466 Development and in-vivo validation of BigBrain-MR: a multimodal computational phantom at 100 μ m**
Cristina Sainz Martinez, Meritxell Bach Cuadra, João Jorge, CSEM, CHUV, Biel, Switzerland
- WTh467 Penalized Decomposition Using Residuals for Confounding Mitigation in Multivariate Pattern Analysis**
Sarah Weinstein, Christos Davatzikos, Jimit Doshi, Kristin Linn, Russell Shinohara, University of Pennsylvania, Philadelphia, United States
- WTh468 A generic solution for multicenter MRI datasets harmonization**
Stenzel CACKOWSKI, Emmanuel Barbier, Michel Dojat, Thomas Christen, Université Grenoble Alpes, La Tronche, France
- WTh469 Voxel-wise Intermodal Coupling Analyses of Multiple Images Using Local Covariance Decompositions**
Fengling Hu, Sarah Weinstein, Erica Baller, Alessandra Valcarcel, Azeez Adebimpe, Armin Raznahan, David Roalf, Timothy Robert-Fitzgerald, Virgilio Gonzenbach, Ruben Gur, Raquel Gur, Simon Vandekar, John Detre, Kristin Linn, Aaron Alexander-Bloch, Theodore Satterthwaite, Russell Shinohara*, University of Pennsylvania, Philadelphia, United States*
- WTh470 A systematic method to visualise and detect motion for paediatric resting-state fMRI datasets**
Yukai Zou, Ho-Ching Yang, Yunjie Tong, Angela Darekar, Peter Fransson, Brigitte Vollmer, Finn Lennartsson, University of Southampton, Southampton, United Kingdom
- WTh471 A Dynamical Systems Model of Major Depressive Disorder by Weakly Evanescent Cortical Wave Theory**
Vitaly Galinsky, Martin Paulus, Lawrence Frank, UCSD, La Jolla, United States
- WTh473 Synchronization and Critical Dynamics of Brain Waves**
Vitaly Galinsky, Lawrence Frank, UCSD, La Jolla, United States
- WTh474 QuNex: A Scalable Platform for Integrative Multi-Modal Neuroimaging Data Processing and Analysis**
Jie Lisa Ji, Jure Demšar, Clara Fonteneau, Shaun Warrington, Zailyn Tamayo, Aleksij Kraljič, Andraž Matkovič, Nina Purg, Markus Helmer, Stamatios Sotiropoulos, John Murray, Alan Anticevic, Grega Repovš, Yale University, New Haven, United States
- WTh475 Structural Connectivity Predicts Functional Connectivity Using Graph Neural Network Deep Learning**
Josh Neudorf, Shaylyn Kress, Ron Borowsky, University of Saskatchewan, Saskatoon, Canada
- WTh476 A Structured Multivariate Approach for Removal of Latent Batch Effects**
Jun Young Park, Rongqian Zhang, Lindsay Oliver, Aristotle Voineskos, University of Toronto, Toronto, Canada
- WTh477 Leveraging Spatial Autocorrelation in Neuroimaging Data in Clusterwise Inference**
Jun Young Park, Mark Fiecas, University of Toronto, Toronto, Canada
- WTh478 Analyzing Language fMRI using Machine Learning**
Elaine Kuan, Viktor Vegh, Kieran O'Brien, Amanda Hammond, Javier Urriola, Stephen Malone, David Reutens, University of Queensland, St Lucia, Australia
- WTh479 In-vivo estimation of axonal morphology features from EEG and MRI data**
Rita Oliveira, Marzia De Lucia, Antoine Lutti, LREN, Department of Clinical Neuroscience, Lausanne University Hospital and University of Lausanne, Lausanne, Switzerland
- WTh480 Separating neural oscillations from aperiodic 1/f activity: challenges and recommendations**
Moritz Gerster, Gunnar Waterstraat, Vladimir Litvak, Klaus Lehnertz, Alfons Schnitzler, Esther Florin, Gabriel Curio, Vadim Nikulin, Max Planck Institute for Human Cognitive and Brain Sciences, Berlin, Germany
- WTh481 Longitudinal normative modelling using pre-trained models**
Barbora Rehak Buckova, Saige Rutherford, Charlotte Frazza, Christian Beckmann, Filip Španiel, Andre Marquand, Jaroslav Hlinka, Institute of Computer Science of the Czech Academy of Sciences, Prague, Czech Republic
- WTh482* The ENIGMA Toolbox: Cross-disorder integration and multiscale contextualization of neuroimaging data**
Sara Larivière, Casey Paquola, Bo-yong Park, Jessica Royer, Yezhou Wang, Oualid Benkarim, Reinder Vos de Wael, Sofie Valk, Sophia Thomopoulos, Matthias Kirschner, Lindsay Lewis, Alan Evans, Neda Jahanshad, Sanjay Sisodiya, Carrie McDonald, Paul Thompson, Boris Bernhardt, McGill University, Montreal, Canada
- WTh483 Deep learning-based prediction of vigilance fluctuations in fMRI**
Zijiao Chen, Eric Kwun Kei Ng, Siwei Liu, Chenhao Wang, Chun Siong Soon, B.T. Thomas Yeo, Ju Lynn Ong, Michael WL Chee, Juan Helen Zhou, National University of Singapore, Singapore, Singapore
- WTh484 CBMAT: a data assistant for coordinate-based meta-analyses**
Jordi Manuella, Donato Liloia, Francesca Dalla Mutta, Franco Cauda, Sergio Duca, tommaso costa, Università degli Studi di Torino, Turin, Italy
- WTh485 Automated sub-segmentation of the hypothalamus and adjacent structures on high-resolution brain MRI**
Santiago Estrada, Emad Bahrami, David Kügler, Dilshad Mousa, Peng Xu, Monique Breteler, N. Ahmad Aziz, Martin Reuter, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
- WTh486 Tedana+: Multi-echo fMRI and related open tools**
Daniel Handwerker, Zaki Ahmed, Peter Bandettini, Katherine Bottenhorn, César Caballero-Gaudes, Logan Dowdle, Elizabeth DuPre, Javier Gonzalez-Castillo, Stephan Heunis, Manfred Kitzbichler, Angela Laird, Stefano Moia, Taylor Salo, Joshua Teves, Eneko Uruñuela, Maryam Vaziri-Pashkam, NIMH, Bethesda, United States
- WTh487 Brain state kinematics and the trajectory of task performance improvement**
Eli Muller, Mac Shine, Brandon Munn, The University of Sydney, Sydney, Australia
- WTh488 Evaluating Threshold Free Cluster Enhancement for ALE Meta-Analysis via Large-Scale Simulations**
Lennart Frahm, Edna Cieslik, Felix Hoffstaedter, Theodore Satterthwaite, Peter T. Fox, Robert Langner, Simon Eickhoff, Forschungszentrum Jülich, Jülich, Germany
- WTh489 Practical limitations of rt-fMRI neurofeedback with multiband EPIs and short (<1s) repetition times**
Malika Renz, Francesca Zidda, Jamila Andoh, Heike Tost, Central Institute for Mental Health, Heidelberg University, Mannheim, Germany

- WTh490 Comparison of uncertainty aware Neural Network Architectures for Brain Age Modeling**
Jan Ernsting, Nils Winter, Vincent Holstein, Ramona Leenings, Marie Beisemann, Lukas Fisch, Kelvin Sarink, Daniel Emden, Carlotta Barkhau, Nils Opel, Ronny Redlich, Jonathan Repple, Dominik Grotegerd, Susanne Meinert, Tilo Kircher, Benjamin Risse, Udo Dannlowski, Klaus Berger, Tim Hahn, University of Münster, Münster, Germany
- WTh491 A hitchhiker's guide (or checklist) to capturing neuroimaging variability**
Gregory Kiar, Jeanette Mumford, Ting Xu, Joshua Vogelstein, Tristan Glatard, Michael Milham, Child Mind Institute, Montreal, Canada
- WTh492 An explainability framework for cortical surface-based geometric deep learning**
Fernanda Ribeiro, Steffen Bollmann, Ross Cunnington, Alexander Puckett, University of Queensland, Brisbane, Australia
- WTh493 High correlations in brain networks: Solutions to the inverse problem**
Philipp Loske, Bjoern Schelter, University of Aberdeen, Aberdeen, United Kingdom
- WTh494 Dynamic Functional Brain Network Modes in Resting-State MEG Data**
Chetan Gohil, Evan Roberts, Ryan Timms, Alex Skates, Cameron Higgins, Andrew Quinn, Usama Pervaiz, Joost van Amersfoort, Pascal Notin, Yarin Gal, Mark Woolrich, OHBA, University of Oxford, Oxford, United Kingdom
- WTh495 Developing MRI with community in mind: Vendor neutral sequences improve multi-vendor reproducibility**
Agah Karakuzu, Labonny Biswas, Julien Cohen-Adad, Nikola Stikov, NeuroPoly Lab, Polytechnique Montreal, Montreal, Canada
- WTh496 Summarizing non-stationarity in spatio-temporal neural data**
Brendan Harris, Ben Fulcher, The University of Sydney, Camperdown, Australia
- WTh497 How important is trial sample size in neuroimaging experiments?**
Gang Chen, Daniel Pine, Melissa Brotman, Ashley Smith, Robert Cox, Paul Taylor, Simone Haller, National Institutes of Health, Bethesda, United States
- WTh498 Deep learning-based generative network modeling for development of brain structural connectivity**
Rui Shen, Yusuf Osmanlioğlu, Drew Parker, Darien Aunapu, Birkan Tunc, Benjamin Yerys, Ragini Verma, University of Pennsylvania, Philadelphia, United States
- WTh499 Methodological considerations to integrate iEEG recordings with DWI of white matter tracts**
Tal Pal Attia, Myung-Ho In, John Huston III, Alma Gabriela Ojeda Valencia, Nick Gregg, Brian Lundstrom, Kai Miller, Gregory Worrell, Matt Bernstein, Dora Hermes, Mayo Clinic, Rochester, United States
- WTh500 A functionally time-resolved reconstruction technique for high-resolution fMRI**
Andrew Morgan, Yuhui Chai, Ryesa Mansoor, Joshua Teves, Peter Bandettini, Section on Functional Imaging Methods, Laboratory of Brain and Cognition, NIMH, NIH, Bethesda, United States
- WTh501 Probabilistic Functional Parcellation of Broca's Area Using The Novel User-Friendly Method ADAVI**
Louis Rouillard, Daniel Margulies, Emmanuel Mandonnet, Demian Wassermann, Inria, Palaiseau, France
- WTh502 Conn2res: A toolbox for connectome-based reservoir computing**
Laura Suarez, Mingze Li, Agoston Mihalik, Petra Vertes, Guillaume Lajoie, Bratislav Mistic, Montreal Neurological Institute, Montreal, Canada
- WTh503 Using Clipping Planes to Analyze Brain Data in SUMA**
Peter Lauren, Daniel Glen, Richard Reynolds, Salvatore Torrisi, Paul Taylor, National Institute of Mental Health, Bethesda, United States
- WTh504 A High-Resolution and Longitudinal Infant MRI Synthesizer with A Pyramid Transformer Network**
Xuzhe Zhang, Xinzi He, Jia Guo, Nabil Ettehad, Natalie Aw, Jonathan Posner, Andrew Laine, YUN WANG, Columbia University, New York City, United States
- WTh505 Spatial Confidence Regions for Conjunctions of fMRI Effects**
Thomas Maullin-Sapey, Armin Schwartzman, Thomas Nichols, University of Oxford, Oxford, United Kingdom
- WTh506 Sagittal Flow of Task-free Brain Activity**
Xiaobo Liu, Sylvain Baillet, McGill University Montreal Neurological Institute, Montreal, Canada
- WTh507 Scanner-Generalization Neural Nets to predict p-factor using Resting-State Functional Connectivity**
Jinwoo Hong, Jong-Hwan Lee, Korea University, Seoul, Korea, Republic of
- WTh508 Image to image translation for cortical segmentation in 7 Tesla T2w ex vivo human brain MRI**
Pulkit Khandelwal, Shokufeh Sadaghiani, Sadhana Ravikumar, Ranjit Ittyerah, Sydney Lim, Madigan Bedard, Jade Lasserre, Laura Wisse, Stephen Pickup, John Robinson, Theresa Schuck, Karthik Prabhakaran, Gabor Mizsei, John Trojanowski, Corey McMillan, Edward Lee, Murray Grossman, David Irwin, M. Dylan Tisdall, Sandhitsu Das, David Wolk, Paul Yushkevich, University of Pennsylvania, Philadelphia, United States
- WTh509 A New Multiple Comparison Correction for Functional Near-Infrared Spectroscopy and Its Assessment**
Mako Fujita, Hiroki Sato, Shibaura Institute of Technology, Saitama, Japan
- WTh510 Optically pumped magnetometers for magnetocortigraphy**
Amaia Benitez Andonegui, Tom Holroyd, Stephen Robinson, Allison Nugent, National Institute of Mental Health, Bethesda, United States
- WTh511 Imaging dynamic signal changes in the CSF and cerebral lymphatic vessels**
Di Cao, Ningdong Kang, Jay Pillai, Xinyuan Miao, Adrian Paez, Xiang Xu, Jiadi Xu, Xu Li, Qin Qin, Peter Van Zijl, Peter Barker, Jun Hua, the Johns Hopkins University, Baltimore, United States
- WTh512 Reconstructing Whole-head Sensorimotor Activity Patterns Using Variational Auto-encoder**
Shue Shiinoki, Masumi Morishige, Seitaro Iwama, Ryotaro Hirose, Junichi Ushiba, Faculty of Science and Technology, Keio University, Yokohama, Japan
- WTh513 Deep Nonlinear Modeling Extracts Reproducible Hierarchical Functional Networks from BOLD fMRI**
Wei Zhang, Lanya Cai, Jamie Wren-Jarvis, Maia Lazerwitz, Ioanna Bourla, Pratik Mukherjee, University of California San Francisco, San Francisco, United States
- WTh514 Cluster extent inference revisited: quantification and localization of brain activity**
Jelle Goeman, Pawel Gorecki, Ramin Monajemi, Xu Chen, Thomas Nichols, Wouter Weeda, Leiden University Medical Center, Leiden, Netherlands

- WTh515** **A multi-echo low-rank and sparse method to estimate neuronal signal with less global signals bias**
Eneko Uruñuela, Stefano Moia, César Caballero-Gaudes, Basque Center on Cognition, Brain and Language, Donostia – San Sebastián, Spain
- WTh516** **Reconstructing voice from fMRI BOLD signal using deep neural networks**
Charly Lamothe, Etienne Thoret, Stéphane Ayache, Régis Trapeau, Bruno Giordano, Sylvain Takerkart, Thierry Artières, Pascal Belin, Institut de Neurosciences de La Timone, Marseille, France
- WTh517** **Shared Independent Component Analysis for Multi-Subject Neuroimaging**
Hugo Richard, Bertrand Thirion, Aapo Hyvärinen, Pierre Ablin, Alexandre Gramfort, INRIA, Paris, France
- WTh518** **Size-independant sulcal depth estimation for analysing early brain development**
Maxime Dieudonné, Alexandre Pron, Julien Lefevre, Guillaume Auzias, CNRS, Marseille, France
- WTh519** **Cluster Depth Tests with Point-Wise Strong Control of the FWER in Massively Univariate Tests in EEG**
Olivier Renaud, Jaromil Frossard, University of Geneva, Geneva, Switzerland
- WTh520** **Using Variational Autoencoders for normative modelling of pathological ageing**
Ana Lawry Aguila, Andre Altmann, University College London, London, United Kingdom
- WTh521** **Niplem: Physiological Log Extraction for Modeling in Neuroimaging**
Amy Sentis, Javier Rasero, Andrew Gerlach, Timothy Verstynen, Carnegie Mellon University, Pittsburgh, United States
- WTh522** **Post-operative Brain Tumor Segmentation in Multiparametric MRI with Deep Transfer Learning**
Clément Acquitter, Lucie Piram, Umberto Sabatini, Clément Brossard, Soumiya El idrissi, Yunshi Han, Elizabeth Cohen-Jonathan Moyal, Soleakhena Ken, Benjamin Lemasson, Univ. Grenoble Alpes, Inserm, U1216, Grenoble Institut Neurosciences, Grenoble, France
- WTh523** **Adaptive Cluster Thresholding with Spatial Activation Guarantees Using All-Resolutions Inference**
Xu Chen, Thijmen Krebs, Rosa Meijer, Jelle Goeman, Leiden University Medical Center, Leiden, Netherlands
- WTh524** **Prior-knowledge-informed deep learning for lacune detection and quantification using multi-site MRI**
Bo Li, Jeroen de Bresser, Wiro Niessen, Matthias van Osch, Wiesje van der Flier, Geert Biessels, Meike Vernooij, Esther Bron, Erasmus MC, Rotterdam, Netherlands
- WTh525** **Artificial intelligence diagnosis of major psychiatric disorders based on structural brain imaging**
Qingfeng Li, Lijuan Jiang, Yang Hu, Xiaochen Zhang, Yue Ding, Jinhong Wang, Daihui Peng, Qing Fan, Min Zhao, Jianhua Sheng, Jijun Wang, Chunbo Li, Yiru Fang, Zhen Wang, Zhi Yang, Shanghai Mental Health Center, Shanghai, China
- WTh526** **MeshDeform: Surface Reconstruction of Subcortical Structures via Human Brain MRI**
Junjie Zhao, Siyuan Liu, Sahar Ahmad, Pew-Thian Yap, The University of North Carolina at Chapel Hill, Chapel Hill, United States
- WTh527** **Individual neural signatures of infants' preference for social sounds: towards real-time infant fMRI**
Elena Throm, Pedro da Costa, František Váša, Evelyne Mercure, Anna Blasi, Declan Murphy, Emily Jones, Robert Leech, Anna Gui, Birkbeck College, University of London, London, United Kingdom
- WTh528** **Sparse MDS and sparse DiSTATIS for brain connectivity data**
Vincent Guillemot, Herve Abdi, Micaela Chan, Liang Han, Ju-Chi Yu, Institut Pasteur, Paris, France
- WTh529** **Effect of eigenvalue filtering on network regularization for survival prediction in Low Grade Glioma**
Amine Rebei, Vincent Guillemot, Cathy Philippe, Vincent Frouin, Neurospin (CEA), Paris, France
- WTh530** **Fast non-parametric permutation tests for neuroimaging datasets**
Bader Chaarani, Sage Hahn, Nicholas Allgaier, Emma Pearson, Max Owens, Alexandra Potter, Hugh Garavan, UVM, Essex Junction, United States
- WTh531** **Quantifying the passage of time to better describe brain function**
Thomas Bolton, Skander Hajri, Loïc Cordey, Daniel Dias, Constantin Tuleasca, Dimitri Van De Ville, Raphael Liegeois, Department of Radiology, Lausanne, Switzerland
- WTh532** **Contractive Auto-Encoders for MR Acquisition Undersampling with Radiologist Validation**
Rafael Ceschin, Subramanian Subramanian, Ashok Panigrahy, Vanessa Schmithorst, University of Pittsburgh, Pittsburgh, United States
- WTh533** **Coordinate Based Meta Regression with a Spatial Model**
Yifan Yu, Rosario Pintos Lobo, Michael Riedel, Katherine Bottenhorn, Angela Laird, Thomas Nichols, University of Oxford, Oxford, United Kingdom
- WTh534** **Cake plots: Point cloud rendering is useful to visualize flattened high resolution cortical images**
Omer Faruk Gulban, Renzo Huber, Rainer Goebel, Maastricht University, Maastricht, Netherlands
- WTh535** **EEG Source Localization using a Component Template based on Functionally Defined Visual Areas**
Marlene Poncet, Justin Ales, University of St Andrews, St Andrews, United Kingdom
- WTh536*** **A high-resolution autoencoder for construction of interpretable brain MRI endophenotypes**
Bo Li, Xianjing Liu, Wiro Niessen, Eppo Wolvius, Meike Vernooij, Mohammad Ikram, Gennady Roshchupkin, Esther Bron, Erasmus MC, Rotterdam, Netherlands
- WTh537** **Inter-scanner harmonization of T1-weighted brain images using 3D CycleGAN**
Vincent Roca, Grégory Kuchcinski, Morgan Gautherot, Jean-Pierre Pruvo, Romain Viard, Renaud Lopes, Lille University Hospital, Lille, France
- WTh538** **FastSurferVINN: Building Resolution-Independence into Deep Learning Segmentation Methods**
Leonie Henschel, David Kügler, Martin Reuter, German Center for Neurodegenerative Diseases, Bonn, Germany
- WTh539** **Task- versus rest-derived network models as predictors of task-based BOLD signal changes**
Meighen Roes, Todd Woodward, University of British Columbia, Vancouver, Canada
- WTh540** **Time-frequency moments of different orders in rest fMRI: A first episode psychosis study**
Ashkan Faghiri, Armin Iraj, Zening Fu, Kun Yang, Koko Ishizuka, Akira Sawa, Vince Calhoun, Tri-Institutional (GSU, Georgia Tech, Emory) Center for Translational Research in Neuroimaging and D, Atlanta, United States
- WTh541** **Can CCA carve psychopathology at its joints?**
Tristan Greathouse, Aman Taxali, Mike Angststadt, Peter Walczyk, Chandra Sripada, University of Michigan, Ann Arbor, United States

WTh542 Funcmasker-flex: an automated BIDS-App for brain segmentation of fetal functional MRI data
Emily Nichols, Peter Van Dyken, Jason Kai, Tristan Kuehn, Susana Correa, Megan Mueller, Sarah Al-Saoud, Tajveer Ubhi, Alissa Papadopoulos, Ella Christiaans, Sandrine de Ribaupierre, Emma Duerden, Ali Khan, Western University, London, Canada

WTh543 Topological cluster extent: a multimodal correction method enhancing sensitivity & interpretability
Sina Mansour L., Anderson Winkler, Caio Seguin, Andrew Zalesky, The University of Melbourne, Melbourne, Australia

WTh544 Unveiling the higher-order structure of multivariate time series
Andrea Santoro, Federico Battiston, Giovanni Petri, Enrico Amico, EPFL, Geneva, Switzerland

WTh545 Neuronal Cell Detection with Simulated and Unsupervised Images through Adversarial Training
Eric Upschulte, Paule-J. Toussaint, Blake Richards, Stefan Harmeling, Alan Evans, Katrin Amunts, Timo Dickscheid, Forschungszentrum Jülich, Jülich, Germany

WTh546 Multi-dataset workflows for naturalistic fMRI hypothesis testing using Neuroscout
Roberta Rocca, Alejandro de la Vega, Ross Blair, James Kent, Tal Yarkoni, University of Texas at Austin, Austin, United States

WTh547 Shiny Reliability Explorer (ReX): Quantifying and Optimizing Reliability for the Study of Individual
Ting Xu, Gregory Kiar, Jae Wook Cho, Erid Bridgeford, Joshua Vogelstein, Michael Milham, Child Mind Institute, New York, United States

WTh548 DICA: a joint approach to estimate functional links at variable spatial scales across the brain
Md Abdur Rahaman, KuaiKuai Duan, Zening Fu, Rogers F. Silva, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States

WTh549 Whole brain functional patterns of longitudinal change in adolescents
Rekha Saha, Debrata Kumar Saha, Md Abdur Rahaman, Zening Fu, Vince Calhoun, Georgia State University, Atlanta, United States

WTh550 Template ICA Reveals Subject-Specific Features Using Cross-Database Templates
Damon Pham, Amanda Mejia, Mary Beth Nebel, Indiana University Bloomington, Bloomington, United States

WTh551 Batch Effects are Causal Effects: Applications in Human Connectomics
Eric Bridgeford, Michael Powell, Gregory Kiar, Ross Lawrence, Ting Xu, Brian Caffo, Michael Milham, Joshua Vogelstein, Johns Hopkins University, Willow Grove, United States

WTh552 MRI Brain Tissue Segmentation Across the Human Lifespan
Xiaoyang Chen, Sahar Ahmad, Yicheng Zou, Jinjian Wu, Wenjiao Lyu, Ye Wu, Pew-Thian Yap, University of North Carolina at Chapel Hill, Carrboro, United States

WTh553 How I failed multivariate brain image analysis to understand mental processes
Gael Varoquaux, Inria, Saclay, France

WTh554 Relating biophysics of brain microvascular dynamics and viscoelastic properties to the Balloon model
Jörg Pfannmöller, Grant Hartung, Anna Blazejewska, Divya Varadarajan, Jingyuan Chen, Daniel Gomez, Jonathan Polimeni, Athinoula A. Martinos Center for Biomedical Imaging, Boston, United States

WTh555 Decentralized analysis of Source-based morphometry
Debrata Kumar Saha, Rogers F. Silva, Bradley Baker, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States

WTh556 Across the multiverse: differentiable programming for deep connectivity pipeline optimisation
Rastko Ciric, Oscar Esteban, Russell Poldrack, Stanford University, Mountain View, United States

WTh557 Prediction of subject biological sex using blood delay map and correlation strength map features
Serdar Aslan, Lia Hocke, Blaise Frederick, Harvard Medical School, Cambridge, United States

WTh558 Federated Harmonization of Neuroimage and Brain Networks
Biozid Bostami, Frank G. Hillary, Vince Calhoun, Victor Vergara, Georgia State University, Atlanta, United States

WTh559 Inhibitory Response Neurotypes Differ in Cognition, Psychopathology, & Default Mode Network Cohesion
Nicholas Allgaier, Max Owens, Sage Hahn, Bader Chaarani, Alexandra Potter, Hugh Garavan, University of Vermont, Burlington, United States

WTh560 Confidence regions for the location of peaks of a smooth random field
Samuel Davenport, Armin Schwartzman, Thomas Nichols, University of California San Diego, LA Jolla, San Diego, United States

WTh561 CivetQC: An Open-Source Automated Quality Control Tool for MRI Processing with CIVET
Joshua Unrau, Martin Lepage, Katie Lavigne, Douglas Mental Health University Institute, Montreal, Canada

WTh562 Neuroplastic Changes Following Cognitive Behavioral Therapy in Patients with Functional Seizures
Ayushe Sharma, Adam Goodman, Jane Allendorfer, W. Curt LaFrance, Jerzy Szaflarski, University of Alabama at Birmingham, Birmingham, United States

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WTh563 Standardizing support for multi-echo fMRI data across the NiPreps ecosystem
Christopher Markiewicz, Elizabeth DuPre, Oscar Esteban, Mathias Goncalves, Javier Gonzalez-Castillo, Daniel Handwerker, Eilidh MacNicol, Taylor Salo, Leigh Sepeta, Joshua Teves, Eneko Uruñuela, Xiaozhen You, Stanford University, Stanford, United States

WTh564 Analysis of ICA-AROMA motion denoising on fMRI data in infant cohort
Kimhan Thung, Zhengwang Wu, Li Wang, Weili Lin, Pew-Thian Yap, UNC at Chapel Hill, Carrboro, United States

WTh565 SpinalCompCor: Component based denoising in resting-state spinal cord fMRI
Kimberly Hemmerling, Robert Barry, Molly Bright, Northwestern University, Chicago, United States

WTh566 Defacing biases manual and automated quality assessments of structural MRI with MRIQC
Céline Provins, Yasser Aleman, Martine Cleusix, Raoul Jenni, Jonas Richiardi, Patric Hagmann, Oscar Esteban, Lausanne University Hospital, Lausanne, Switzerland

WTh567 Multislice-to-volume registration for detecting intra-volume motion in 7T EPI
Steven Winata, Daniel Hoinkiss, Graeme Keith, David Porter, University of Glasgow, Glasgow, United Kingdom

WTh568 Dynamic off-resonance correction improves functional data quality in fMRI of awake behaving NHPs
 Mo Shahdloo, Nima Khalighinejad, Caroline Harbison, Karla Miller, Matthew Rushworth, Mark Chiew, University of Oxford, Oxford, United Kingdom

WTh569 Denoising approaches for resting-state brainstem connectivity to the central autonomic network
 Mary Miedema, Kyle Pattinson, Georgios Mitsis, McGill, Montreal, Canada

WTh570 Impact of confound removal strategies on functional connectivity generated from fMRIPrep outputs
 Hao-Ting Wang, Steven Meisler, Hanad Shamarke, François Paugam, Nicolas Gensollen, Bertrand Thirion, Christopher Markiewicz, Pierre Bellec, Centre de recherche de l'Institut universitaire de gériatrie, Montreal, Canada

WTh571 Effects of passive head motion mitigation technologies on 7T fMRI point spread function
 Salvatore Torrisi, Alexander Beckett, Stephanie Rossi, David Feinberg, An Vu, UC Berkeley, Berkeley, United States

WTh572 How nuisance regression in fcMRI impacts detection of group differences in mental health conditions
 Meghan Robinson, Guillermo Poblete, Chadi Abdallah, Ramiro Salas, Baylor College of Medicine, Houston, United States

WTh573 Evaluation of physiological noise reduction using RETROICOR in accelerated ME MB fMRI data
 Anežka Kovářová, Michal Mikl, Masarykova Univerzita, Brno, Czech Republic

WTh574 Adaptive non-local means filtering as a drop-in preprocessing step for task-based fMRI
 Ajay Nemani, Mark Lowe, Cleveland Clinic, Cleveland, United States

WTh575 Evaluating trade-offs in censoring and scan length in early childhood fMRI
 Kirk Graff, Ryann Tansey, Amanda Ip, Christiane Rohr, Dennis Dimond, Deborah Dewey, Signe Bray, University of Calgary, Calgary, Canada

WTh576 Resting-state “physiological networks” revisited with ICA-FIX de-noising
 Jingyuan Chen, Jonathan Polimeni, Massachusetts General Hospital and Harvard Medical School, Cambridge, United States

Multivariate Approaches

WTh577 Understand Gender-Specific Brain lateralization via Covariate-Dependent Machine Learning
 Shuo Zhou, Junhao Luo, Haiping Lu, Gaolang Gong, The University of Sheffield, Sheffield, United Kingdom

WTh578 Confound regression with adversarial networks in clinical MRI classification for Alzheimer's disease
 Matthew Leming, Sudeshna Das, Hyungsoon Im, Massachusetts General Hospital, Boston, United States

WTh579* Optimising analysis choices for multivariate decoding: creating pseudotrials using trial averaging
 Catriona Scrivener, Tijn Grootswagers, Alexandra Woolgar, University of Edinburgh, Edinburgh, United Kingdom

WTh580 Mixing BrainAGE with omics approaches: Employing sPLS regression on UK Biobank data
 Polona Kalc, Robert Dahnke, Felix Hoffstädter, Simon Eickhoff, Christian Gaser, Jena University Hospital, Jena, Germany

WTh581 Molecular and connectomic vulnerability shape cross-disorder cortical atrophy
 Justine Hansen, Golia Shafiei, Jacob Vogel, Kelly Smart, Richard Carson, Alain Dagher, Bratislav Misic, McGill University, Montreal, Canada

WTh582 Multivariate Analysis of the Relationship between White Matter and Behaviour via Multimodal Imaging
 Zaki Alasmar, Stéphanie Tremblay, Amir Pirhadi, Felix Carbonell, Claudine Gauthier, Yasser Iturria-Medina, Christopher Steele, Concordia University, Montreal, Canada

WTh583 Individualised prescriptive inference for ischaemic stroke
 Dominic Giles, Tianbo Xu, Chris Foulon, Robert Gray, Sebastien Ourselin, Jorge Cardoso, Hans Rolf Jäger, Geraint Rees, Ashwani Jha, Parashkev Nachev, University College London, London, United Kingdom

WTh584 Neural Systems Underlying the Implementation of Working Memory Removal Operations
 Jacob DeRosa, Hyojeon Kim, Marie Banich, University of Colorado Boulder, Boulder, United States

WTh585 Confounds in Neuroimaging: A Clear Case of Sex as a Confound in Brain Prediction
 Kenneth Weber, Zachary Teplin, Tor Wager, Nirao Shah, Christine Sze Wan Law, Nitin Prabhakar, Yoni Ashar, Gadi Gilam, Suchandrima Banerjee, Scott Delp, Gary Glover, Trevor Hastie, Sean Mackey, Stanford University, Palo Alto, United States

WTh586 Surface-based MVPA reveals cortical representations of nutrition claims during tasting
 Ameer Ghouse, Qëndresa Rramani, Bernd Weber, Gaetano Valenza, Johannes Schultz, Centro di Ricerca “E.Piaggio”-Università di Pisa IT00286820501, Pisa, Italy

WTh587 Modelling music listening in multiple modalities in space and time
 Sarah Faber, Anthony McIntosh, University of Toronto, Toronto, Canada

WTh588 Loss of synaptic structure predicts decline in brain connectivity in prodromal Alzheimer's disease
 Betty Tijms, Ellen Vromen, Ellen Dicks, Pieter Jelle Visser, Alzheimer Center Amsterdam, VUmc, Amsterdam, Netherlands

WTh589 Pooling data or results? – Bootstrap aggregating for spatial covariance analysis in fMRI analytics
 Christian Habeck, Gene Alexander, James Moeller, Columbia University, New York, United States

WTh590 Multivariate Genomic Components of Brain Structure and Function: a Reproducibility Assessment Study
 Sourena Soheili-Nezhad, Christian Beckmann, Emma Sprooten, Donders Institute for Brain, Cognition and Behaviour, Nijmegen, Netherlands

WTh591 Hippocampal-cortical co-morphology networks and their phenotypical correlates in adults
 Somayeh Maleki Balajoo, Eliana Nicolaisen-Sobesky, Shahrzad Kharabian Masouleh, Simon Eickhoff, Sarah Genon, Institute of Neuroscience and Medicine (INM-7), Research Centre Jülich, Jülich, Germany

WTh592 Structure-function coupling and its association with surgical outcomes in epilepsy
 Nishant Sinha, Peter Taylor, University of Pennsylvania, Philadelphia, United States

- WTh593 Evaluating functional alignment applications: Impacts of experimental context**
Elizabeth DuPre, Thomas Bazeille, Bertrand Thirion, Jean-Baptiste Poline, McGill University, Montreal, Canada
- WTh594 Searchlight-based trial-wise fMRI decoding in the presence of trial-by-trial correlations**
Joram Soch, John-Dylan Haynes, Bernstein Center for Computational Neuroscience, Berlin, Germany
- WTh595 A cross-cohort replicable and heritable latent dimension linking cognition to cortical structure**
Eliana Nicolaisen-Sobesky, Shahrzad Kharabian Masouleh, Agoston Mihalik, Fabio Ferreira, Somayeh Maleki Balajoo, Sofie L. Valk, Simon Eickhoff, B.T. Thomas Yeo, Janaina Mourao-Miranda, Sarah Genon, Institute of Neuroscience and Medicine (INM-7: Brain and Behaviour), Research Centre Jülich, Jülich, Germany
- WTh596 Machine Learning Reveals Hemispheric Differences in the Human Brain**
Haoyu Hu, Yinuo Liu, Yuzheng Hu, Xiang-Zhen Kong, Zhejiang University, Hangzhou, China
- WTh597 A multivariate approach to analyze brain networks with individualized parcellation**
Ju-Chi Yu, Liang Han, Micaela Chan, Hervé Abdi, Centre for Addiction and Mental Health, Toronto, Canada
- WTh598 Overcoming bias in representational similarity analysis with partial correlation: a software package**
Roberto Viviani, University of Innsbruck, Innsbruck, Austria
- WTh599 The human default mode network dominates semantic processing in naturalistic movie appraisal**
Enning Yang, Jakub Kopal, Georgios Mitsis, Bratislav Misic, Emily Finn, Danilo Bzdok, McGill University, Montreal, Canada
- WTh600 Comparing multivariate statistical approaches to delineate brain-behaviour relationships**
Hajer Nakua, Anthony McIntosh, Herve Abdi, Colin Hawco, Sean Hill, Aristotle Voineskos, Stephanie Ameis, University of Toronto, Mississauga, Canada
- WTh601 Estimating Anatomical Morphometricity in Brain Age using UK Biobank Data**
Ting Zhang, Jérôme Docks, Nikhil Bhagwat, Clara Moreau, Celia Greenwood, Jean-Baptiste Poline, McGill University, Montreal, Canada
- WTh602 Joint ICA in Structural MRI and Functional Connectivity in Cognitive Impairment**
Oktay Agcaoglu, Vince Calhoun, TRENDS, Atlanta, United States
- WTh603 A comparison between sparse CCA and conventional CCA in studies on brain-behavior relationships**
Luli Wei, Meng Liang, School of Medical Imaging, Tianjin Medical University, Tianjin, China, Tianjin, China, China
- WTh604 Linking structural and functional connectivity using joint-cmlCA**
Lei Wu, Vince Calhoun, TRENDS Center, Atlanta, United States

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- WTh609 Quantifying AD-related brain amyloid with linearised progression models: model-based vs. data-based**
Alle Meije Wink, Mahnaz Shekari, Ellen Dicks, Lyduine Collij, Gemma Salvadó, David Garcia, Maqsood Yaqub, Juan Domingo Gispert, Betty Tijms, Isadora Lopes Alves, Frederik Barkhof, Amsterdam University Medical Centre, Amsterdam, Netherlands
- WTh610 Metabolic and functional connectivity relate to distinct aspects of cognition**
Katharina Voigt, Emma Liang, Misic Bratislav, Phillip Ward, Gary Egan, Sharna Jamadar, Monash University, Clayton, Australia
- WTh611 Mapping striatal opioid receptors and opioid-induced dopamine release patterns**
Ehsan Shokri Kojori, Mika Naganawa, Vijay Ramchandani, Dean Wong, Gene-Jack Wang, Nora Volkow, NIIH, Bethesda, United States

Segmentation and Parcellation

- WTh612 Systematic validation of an automated thalamic parcellation technique using anatomical data at 3T**
Brendan Williams, Etienne Roesch, Anastasia Christakou, University of Reading, Reading, United Kingdom
- WTh613 Anatomical segmentation and subdivision of the basal nucleus of Meynert with deep super resolution**
Brian Avants, Michael Maker, Taylor Gosselin, Jacob Hesterman, David Verbel, Pallavi Sachdev, Luigi Giorgi, Arnaud Charil, Akihiko Koyama, Invicro, Boston, United States
- WTh614 Deep Learning for Brain Extraction from a Small and Diverse Dataset of Primate MRI**
Ziqi Hao, Kelvin Mok, Sethu Jegathambal, Ricardo Pizarro, Amir Shmuel, Montreal Neurological Institute, McGill University, Montréal, Canada
- WTh615 A Multi-Site Network for Coarse-to-Fine 3D Segmentation of Brain MRI Data**
Michele Svanera, Mattia Savardi, Sergio Benini, Alberto Signoroni, Lars Muckli, University of Glasgow, Glasgow, United Kingdom
- WTh616 Functional connectivity gradients of the human basal forebrain reveal rostrocaudal organization**
Sudesna Chakraborty, Roy Haast, Ali Khan, Taylor Schmitz, University of Western Ontario, London, Canada
- WTh617 Connectivity-based Parcellation of Normal and Anatomically Distorted Human Cerebral Cortex**
Stephane Doyen, Peter Nicholas, Anujan Poologaindran, Lewis Crawford, Isabella Young, Rafael Romero-Garcia, Michael Sughrue, Omniscient Neurotechnology, Sydney, Australia
- WTh618 Introducing a Homotopic Variant of the Schaefer-Yeo Cerebral Cortical Parcellation**
Xiaoxuan Yan, Qing Yang, Ruby Kong, Aihui Xue, Danilo Bzdok, Simon Eickhoff, B.T. Thomas Yeo, National University of Singapore, Singapore, Singapore
- WTh619 Cerebellar cortex annotation with unsupervised domain adaptation and self-training**
Xuan Li, Paule-J. Toussaint, Alan Evans, Xue Liu, McGill University, Montreal, Canada

WTh620 Sulci-Based Midsagittal Corpus Callosum Parcellation: New Approach to Callosal Scaling or Development
 Gabrielle Convert, Guillaume Auzias, Clara Fischer, Dhaif Bekha, Richard Delorme, Monique Elmaleh, Julien Lefevre, Olivier Coulon, Justine Fraize, Lucie Hertz-Pannier, David Germanaud, NeuroSpin, Gif-sur-Yvette, France

WTh621 Improving Deep Learning-based Brain Extraction via Probability Map Ensemble in Federated Learning
 Yanghee Im, Gilsoon Park, Eui-In Park, Jong-Min Lee, Department of Electronic Engineering, Hanyang University, Seoul, Korea, Republic of

WTh622 Clinical validation of T1 spin echo MRI processing
 Jiasheng Su, Leighton Barnden, Sonya Marshall-Gradisnik, Donald Staines, KIRAN THAPALIYA, Griffith University, Gold coast, Australia

WTh623 Gray Matter Segmentation in Ultra High Resolution 7 Tesla ex vivo T2w MRI of Human Brain Hemispheres
 Pulkit Khandelwal, Shokufeh Sadaghiani, Sadhana Ravikumar, Sydney Lim, Ranjit Ittyerah, Madigan Bedard, Michael Duong, Theresa Schuck, Karthik Prabhakaran, Gabor Mizsei, Edward Lee, Daniel Ohm, Grace Choi, Marianna Gabrielyan, Elyse Migdal, Emily Kopp, Bridget Patino, Jiacheng Li, Claire Peterson, Eusha Hasan, Noah Capp, Sanaz Arezoumandan, Eunice Chung, Laura Wisse, John Trojanowski, M. Dylan Tisdall, Murray Grossman, David Irwin, Corey McMillan, Sandhitsu Das, David Wolk, Paul Yushkevich, University of Pennsylvania, Philadelphia, United States

WTh624 Functional connectivity-based parcellation of the mouse cerebral cortex
 Kai Liu, Limin Peng, Wei Liu, Ming Li, Zhipeng Fan, Liangwei Fan, Hui Shen, Dewen Hu, Ling-Li Zeng, NUDT, Changsha, China

WTh625 White matter hyperintensity segmentation in cohorts with low prevalence – algorithm review
 Niklas Wulms, Christine Herpertz, Lea Redmann, Klaus Berger, Benedikt Sundermann, Heike Minnerup, University of Muenster, Muenster, Germany

WTh626 Evaluation of Automated Hippocampal Subfield Segmentation Methods at 7 Tesla
 Michael Eyre, Fraser Aitken, Ayse Sila Dokumaci, Pip Bridgen, Chiara Casella, Rory Piper, Raphael Tomi-Tricot, Jan Sedlacik, Tom Wilkinson, Sharon Giles, Shaihan Malik, Joseph V. Hajnal, Jonathan O'Muircheartaigh, David W. Carmichael, King's College London, London, United Kingdom

WTh627 Comparison of Deep and Classical Machine Learning Methods for Automatic Brain Extraction
 Krishna Kanth Chitta, Alex Treacher, Fang Yu, Albert Montillo, University of Texas Southwestern Medical Center, Dallas, United States

WTh628 Atlas-based brain segmentation of deep learning derived CT gray matter maps
 Meera Srikrishna, Alexis Moscoso, Samuel Berkins, Joana Pereira, Rolf Heckemann, Giovanni Volpe, Anna Zettergren, Silke Kern, Lars-Olof Wahlund, Bibek Gyanwali, Saima Hilal, Joyce Ruifen, Eric Westman, Christopher Chen, Ingmar Skoog, Michael Schöll, Department of Psychiatry and Neurochemistry, Institute of Neuroscience and Physiology, The Sahlgrenska, Gothenburg, Sweden

WTh629 Learning subject-specific functional parcellations from structural MRI
 Roza Bayrak, Ilwoo Lyu, Catie Chang, Vanderbilt University, Nashville, United States

WTh630 HSF as a Promising Solution to Hippocampal Subfields Segmentation in MRI
 Clément Poirat, Antoine Bouyeure, Sandesh Patil, Antoine Grigis, Edouard Duchesnay, Matthieu Faillot, Michel Bottlaender, Frederic Lemaitre, Marion Noulhiane, UNIACT/Inserm U1141, Gif-sur-Yvette, France

WTh631 Data-driven Approach for Automatic Detection of Deep Gray Matter Lesions on MRI
 Félix Janelle, Christian Bocti, Kevin Whittingstall, Université de Sherbrooke, Sherbrooke, Canada

WTh632 Clinical Information informs automated Detection of Focal Cortical Dysplasia
 Lennart Walger, Bastian David, Fabiane Schuch, Tobias Baumgartner, Juri Witt, Attila Racz, Randi von Wrede, Christoph Helmstaedter, Christian Elger, Alexander Radbruch, Martin Reuter, Rainer Surges, Theodor Rüber, UKB, Bonn, Germany

WTh633 Corpus callosum area in HIV and ART exposed uninfected neonates
 Fleur Warton, Barbara Laughton, Samantha Fry, Mark Cotton, Francesca Little, Andre van der Kouwe, Ernesta Meintjes, University of Cape Town, Cape Town, South Africa

WTh634 Whole Brain Parcellation Over the Human Lifespan
 Ye Wu, Sahar Ahmad, Wenjiao Lyu, Pew-Thian Yap, University of North Carolina at Chapel Hill, Chapel Hill, United States

WTh635 MRA-based identification of cerebrovascular border zone regions
 Samantha Cote, Félix Dumais, Marco Perez Caceres, Jean-Francois Lepage, Kevin Whittingstall, Université de Sherbrooke, Sherbrooke, Canada

WTh636 A novel geometry-based analysis of the hippocampus in people with temporal lobe epilepsy
 Laura Fischbach, Kersten Diers, Tobias Bauer, Mar Brugues, Bernd Weber, Albert Becker, Alexander Radbruch, Christian Elger, Rainer Surges, Martin Reuter, Theodor Rüber, University Hospital Bonn, Bonn, Germany

WTh637 Ultra-high resolution, modality-agnostic segmentation of the cerebral cortex from 2D images
 Konrad Wagstyl, Thomas Funck, Joseph Cohen, Katrin Amunts, Alan Evans, Nicola Palomero-Gallagher, UCL, London, United Kingdom

WTh638 An automated cortical parcellation pipeline for infant MRI to explore infant brain-behavior patterns
 Yicheng Zhang, Layla Banihashemi, Alyssa Samolyk, Amelia Versace, Megan Taylor, Gabrielle English, Jessie Northrup, Vanessa Schmithorst, Vincent Lee, Richelle Stiffler, Haris Aslam, Ashok Panigrahy, Alison Hipwell, Mary Phillips, University of Pittsburgh, Pittsburgh, United States

WTh639 Subtle Lesion Characteristics are Promising Biomarkers for Seizure Development
 Alexis Bennett, Rachael Garner, Michael Morris, Giuseppe Barisano, Marianna La Rocca, Ruskin Cua, Paul Vespa, Arthur W. Toga, Dominique Duncan, University of Southern California, Los Angeles, United States

Task-Independent and Resting-State Analysis

WTh640 I-ECO: a novel method for the analysis and visualization of fMRI results
 Livio Tarchi, Stefano Damiani, Paolo La Torraca Vittori, Tiziana Pisano, Simone Marini, Nelson Nazzicari, Giovanni Castellini, Pierluigi Politi, Valdo Ricca, University of Florence, Florence, Italy

WTh641 Effects of Age, Sex, and Handedness on Lateralization of Resting State Networks
 E. Susan Duncan, Aswathy Anakkathil Pradeep, A. Duke Shereen, Louisiana State University, Baton Rouge, United States

WTh642 Unsupervised learning of resting state fMRI separates individuals at varying stages of Alzheimer's
 Michelle Karker, Jung-Hoon Kim, Douglas Noll, Zhongming Liu, Benjamin Hampstead, Scott Peltier, University of Michigan, Ann Arbor, United States

- WTh643 Characterizing systemic physiological effects on rsfMRI signals in time and frequency using wavelets**
Quimby Lee, Jingyuan Chen, Gregory Wheeler, Audrey Fan, University of California, Davis, Davis, United States
- WTh644 Effects of Normo- and Hypobaric Hypoxia on Spontaneous EEG Oscillations and Entropy**
Evan Hutcheon, Vasily Vakorin, Adonay Nunes, Urs Ribary, Sherri Ferguson, Victoria Claydon, Sam Doesburg, Simon Fraser University, Burnaby, Canada
- WTh645 Functional connectivity dynamics vary with disease severity in patients with multiple sclerosis**
Amy Romanello, Stephan Krohn, Nina von Schwabenflug, Claudia Chien, Judith Bellmann-Strobl, Klemens Ruprecht, Friedemann Paul, Carsten Finke, Charité – Universitätsmedizin Berlin, Berlin, Germany
- WTh646 Interactive effects of HIV infection and chronic cannabis use on hippocampal rsFC**
Katharine Crooks, Jessica Flannery, Michael Riedel, Lauren Hill-Bowen, Angela Laird, Raul Gonzalez, Matthew Sutherland, Florida International University, Miami, United States
- WTh647 Changes in functional connectivity following tDCS and HD-tDCS enhanced motor learning in children**
Adrianna Giuffre, Alberto Lazari, Caroline Nettekoven, Helen Carlson, Adam Kirton, Ashley Harris, Charlotte Stagg, University of Calgary, Calgary, Canada
- WTh648 Age and individual differences in autobiographical memory relate to default network connectivity**
Roni Setton, Laetitia Mwilambwe-Tshilobo, Signy Sheldon, Gary Turner, Nathan Spreng, Harvard University, Cambridge, United States
- WTh649 Evidence of Structured Dynamics in Resting-State Hemodynamic Time Series-to-Network Mapping Measures**
Randall Barbour, Harry Graber, San-Lian Barbour, Photon Migration Technologies Corp., Glen Head, United States
- WTh650 Drowsiness during resting-state fMRI: a major confounder for intrinsic connectivity analysis**
Marc Joliot, Sandrine Cremona, Christophe Tzourio, Olivier Etard, IMN, UMR5293, Bordeaux cedex, France
- WTh651 Serotonin mediates oxytocinergic modulation of stress-associated amygdala-hippocampus pathway in men**
Chunmei Lan, Congcong Liu, Keshuang Li, Zhiying Zhao, Jiabin Yang, Yina Ma, Dirk Scheele, Shuxia Yao, Keith Kendrick, Benjamin Becker, UESTC, Chengdu, China
- WTh652 A Longitudinal Study of Spontaneous Regional Brain Activity in Patients with Anorexia Nervosa**
Maria Seidel, Joseph King, Daniel Geisler, Fabio Bernardoni, Stefan Ehrlich, TU Dresden, Germany, Dresden, Germany
- WTh653 Atlasing white and grey matter joint contributions to resting-state networks in the human brain**
Victor Nozais, Stephanie Forkel, Laurent Petit, Michel Thiebaut de Schotten, Marc Joliot, CNRS, Bordeaux, France
- WTh654 Altered brain regional homogeneity is associated with anxious and depressive symptoms in COVID-19**
Giulia Cattarinussi, Alessandro Miola, Nicolò Trevisan, Silvia Valeggia, Elena Tramarin, Carla Mucignat, Francesco Morra, Matteo Minerva, Giovanni Librizzi, Anna Bordin, Francesco Causin, Giancarlo Ottaviano, Angelo Antonini, Fabio Sambataro, Renzo Manara, Padova Neuroscience Center, Padova, Italy
- WTh655 Resting-state Connectivity Predicts Stable Elements of Task-evoked Brain Activity**
Niv Tik, Ido Tavor, Tel-Aviv University, Tel-Aviv, Israel
- WTh656 Serotonergic Psychedelic Drugs Dynamically Reconfigure Brain Network Organization**
Manesh Girn, Leor Roseman, Christopher Timmermann Slater, Matthew Dixon, Robert Leech, Robin Carhart-Harris, Nathan Spreng, McGill University, Montreal, Canada
- WTh657 Functional Anomaly Mapping Reveals Spatiotemporal Alterations in Temporal Lobe Epilepsy**
Taha Gholipour, Xiaozhen You, Andrew DeMarco, Dario Englot, Peter Turkeltaub, Victoria Morgan, William Gaillard, George Washington University, Washington, United States
- WTh658 Neuromodulation of striatal D1 cells shapes BOLD dynamics in thalamic and cortical regions**
Marija Markicevic, Markus Rudin, Valerio Zerbi, Ben Fulcher, Nicole Wenderoth, ETH Zurich, Zurich, Switzerland
- WTh659 Denoising approach affects diagnostic differences in brain connectivity across Alzheimer's continuum**
Jenna Blujus, Hwamee Oh, Brown University, Providence, United States
- WTh660 Dynamical interactions reconfigure the gradient of cortical timescales**
Giovanni Rabuffo, Pierpaolo Sorrentino, Fabio Baselice, Emahuel Troisi Lopez, Marianna Liparoti, Mario Quarantelli, Giuseppe Sorrentino, Christophe Bernard, Viktor Jirsa, Institut de Neurosciences des Systèmes – Aix-Marseille Université, Marseille, France
- WTh661 Reliability of Connectome Harmonic Decompositions of Brain Structure and Function**
Brian Winston, Hoyt Taylor, Pew-Thian Yap, Frederick Barrett, James Pekar, Johns Hopkins University, Baltimore, United States
- WTh662 Macroscale functional connectivity patterns associated with ongoing thoughts and personality traits**
Samyogita Hardikar, Bronte Mckeown, H. Lina Schaare, Ting Xu, Mark Lauckner, Sofie L. Valk, Daniel Margulies, Boris Bernhardt, Reinder Vos de Wael, Arno Villringer, Jonathan Smallwood, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany
- WTh663 Effects of PM2.5 on Maturation of Functional Brain Networks in Adolescents**
Devyn Cotter, Kirthana Sukumaran, Rob McConnell, Jiu-Chiuan Chen, Joel Schwartz, Hedyeh Ahmadi, Megan Herting, University of Southern California, Los Angeles, United States
- WTh664 Within region temporal synchrony drives inter-subject variation in resting-state amplitudes**
Soojin Lee, Janine Bijsterbosch, Fidel Alfaro Almagro, Lloyd Elliott, Paul McCarthy, Bernd Täscher, Roser Sala-Llonch, Christian Beckmann, Eugene Duff, Stephen Smith, Gwenaëlle Douaud, University of Oxford, Oxford, United Kingdom
- WTh665 Resting-state network connectivity analysis of Alzheimer's disease in Malaysia using ICA**
Nur Shahidatul Nabila Ibrahim, Subapriya Suppiah, Nur Hafizah Mohad Azmi, Buhari Ibrahim, Albert Dayor Piersson, Mazlyfarina Mohamad, Nisha Syed Nasser, Hasyma Abu Hassan, Normala Ibrahim, Rizah Mazzuin Razali, Nur Harzana Harrun, Hakimah Sallehuddin, Syahrilnizam Abdullah, M Iqbal Saripan, Universiti Putra Malaysia, Klang, Malaysia

- WTh666** **Always in sight: a visual representation of the hand in the resting sensorimotor regions**
Yara El Rassi, Giacomo Handjaras, Andrea Leo, Paolo Papale, Maurizio Corbetta, Emiliano Ricciardi, Viviana Betti, IMT advanced studies Lucca, Lucca, Italy
- WTh667** **Stable trait brain dynamics relate to trait behavior across the lifespan: a covSTATIS approach**
Giulia Baracchini, Jenny Rieck, Manesh Girn, Cheryl Grady, Nathan Spreng, McGill University, Montreal, Canada
- WTh668** **Resting-state dynamic functional connectivity changes in essential tremor patients upon thalamotomy**
Thomas Bolton, Dimitri Van De Ville, Jean Régis, Tatiana Witjas, Nadine Girard, Marc Levivier, Constantin Tuleasca, Department of Radiology, Lausanne, Switzerland
- WTh669** **Intersubject Correlation Reveals Brain-Behavior Relationships In Development**
Taylor Chamberlain, Anna Corriveau, Hayoung Song, Monica Rosenberg, University of Chicago, Brooklyn, United States
- WTh670** **Mutual information & correlations capture different midbrain-cerebrum rsfMRI functional connectivity**
Chih-Chia Hsing, Hsin-Yi Hung, Joshua Oon Soo Goh, National Taiwan University, Taipei City, Taiwan
- WTh671** **Mouse fMRI: Examining the Relationship between Anesthesia, Data Quality and Physiology**
Mila Urosevic, Jeremie Fouquet, Gabriel Desrosiers-Gregoire, Daniel Gallino, Gabriel A. Devenyi, Mallar Chakravarty, McGill University, Montreal, Canada
- WTh672** **Low-dimensional structure of spontaneous resting-state fMRI activity aligns with vigilance**
Shengchao Zhang, Sarah Goodale, Benjamin Gold, Victoria Morgan, Dario Englot, Catie Chang, Vanderbilt University, Nashville, United States
- WTh673** **Mind wandering trait impacts the state switching of the dynamic functional connectivity**
Yanmeng Bao, Hu Yuzheng, Zhejiang University, Hangzhou, China

Other Methods

- WTh605** **Detecting Myelination Deficits in Young Adults Born Preterm**
Kaitlyn Easson, May Khairy, Christine Saint-Martin, Guillaume Gilbert, Pia Wintermark, Sean Deoni, Maxime Descoteaux, Marie Brossard-Racine, McGill University, Montreal, Canada
- WTh606** **Enhancing resolution of quantitative MRI maps using AI: Preliminary evaluation in pediatric epilepsy**
Georgia Doumou, Lin Hongxiang, Sara Lorio, Lenka Vaculčíaková, Kerrin J. Pine, Nikolaus Weiskopf, Jonathan O'Muircheartaigh, Daniel C. Alexander, David W. Carmichael, King's College London, London, United Kingdom
- WTh607** **What drives a Hidden Markov Model (HMM) decomposition in electrophysiological data?**
Laura Masaracchia, Mark Woolrich, Diego Vidaurre, Aarhus University, Aarhus, Denmark
- WTh608** **Temporal lobe epilepsy shows a progressive increased brain asymmetry evaluated by event-based model**
Seymour Lopez, Leon Aksman, Neil Oxtoby, Sjoerd Vos, Jun Rao, Erik Kaestner, Carrie McDonald, Daniel Alexander, Sanjay Sisodiya, Andre Altmann, for the ENIGMA-Epilepsy working group, UCL, Glasgow, United Kingdom

MOTOR BEHAVIOR

Brain Machine Interface

- WTh674** **Classification of reach and grasp using human electrocorticography**
Yu Jin Yang, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of
- WTh675** **Decoding 2-s mental-task performance with high accuracy based on distributed fMRI-activity patterns**
Daniëlle Evenblij, Reebal Rafeh, Deni Kurban, Amaia Benitez-Andogenui, Giancarlo Valente, Michael Luehrs, Bettina Sorger, Maastricht University, Maastricht, Netherlands
- WTh676** **Motor Mapping for Acute vs Delayed Targeted Muscle Innervation Surgery**
Ben Sinclair, Ernest Tay, Lucy Vivash, Brendan Major, Paul Beech, Margaret Angliss, Terence O'Brien, Frank Brusolino-Raiola, Steven Gray, Meng Law, Monash University, Melbourne, Australia

Motor Planning and Execution

- WTh678** **Longitudinal prediction of motor dysfunction after stroke: a disconnectome study**
Lilit Dulyan, Lia Talozzi, Valentina Pacella, Maurizio Corbetta, Stephanie Forkel, Michel Thiebaut de Schotten, BCBlab, Bordeaux, France
- WTh679** **The cerebellum as a cognitive regulator in eye movements planning**
Rafael Oscar San Pedro-Caligua, Israel Vaca-Palomares, Erick Pasaye-Alcaraz, Juan Fernández-Ruiz, Facultad de Psicología. UNAM, Mexico, Mexico
- WTh680** **Action effect predictions in 'what', 'when', and 'whether' intentional actions**
Wai Ying Chung, Álvaro Darriba, Betina Korka, Andreas Widmann, Erich Schröger, Florian Waszak, Integrative Neuroscience and Cognition Center, Paris, France
- WTh681** **Identifying the neural correlates of postural control: a novel fMRI paradigm**
Jo Armour Smith, Rongwen Tain, Kelli Sharp, Laura Glynn, Linda Van Dillen, Korinne Henslee, Jesse Jacobs, Steven Cramer, Chapman University, Irvine, United States
- WTh682** **White matter disconnection role in the symptoms of the Anarchic Hand Syndrome: a single case study**
Valentina Pacella, Giuseppe Kenneth Ricciardi, Silvia Bonadiman, Elisabetta Verzini, Federica Faraoni, Michele Scandola, Valentina Moro, Groupe d'Imagerie Neurofonctionnelle, Institut des Maladies Neurodégénératives-UMR 5293, CNRS, CEA U, Bordeaux, France
- WTh683** **Reach-relevant Somatosensory Signals Modulate Activity in the Tactile Suppression Network**
Belkis Ezgi Arikian, Dimitris Voudouris, Katja Fiehler, Justus Liebig University Giessen, Giessen, Germany
- WTh684** **Ipsilesional motor activation with high-force handgrip contractions in participants with stroke**
Layla Gould, Justin Andrushko, Doug Renshaw, Shannon Forrester, Michael Kelly, Gary Linassi, Marla Mickleborough, Alison Oates, Gary Hunter, Ron Borowsky, Jon Farthing, University of Saskatchewan, Saskatoon, Canada
- WTh685** **White matter disconnections and grey matter lesions in Personal Neglect**
Michele Scandola, Sara Bertagnoli, Valentina Pacella, Elena Rossato, Paul Jenkinson, Aikaterini Fotopoulou, Valentina Moro, University of Verona, Verona, Italy
- WTh686** **Cortical integration of order and timing occurs during sequence execution, but not planning**
Rhys Yewbrey, Myrto Mantziara, Katja Kornysheva, Bangor University, Crewe, United Kingdom

WTh687 Movements of One Arm Facilitate Motor Adaptation of the Other
Magdalena Gippert, Saskia Graupner, Tobias Heed, Ian Howard, Arno Villringer, Vadim Nikulin, Bernhard Sehm, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

Visuo-Motor Functions

WTh688 Proprioceptive contribution to oculomotor control in humans
Daniela Balslev, Alexandra Mitchell, Patrick Faria, Lukasz Priba, Jennifer Macfarlane, University of St Andrews, St Andrews, United Kingdom

WTh689 Assessing target eccentricity for a covert attention visual search task
Leandro Lecca, Garikoitz Lerma-Usabiaga, Ana B. Chica, Pedro M. Paz-Alonso, Basque Center on Cognition, Brain and Language, Donostia, San-Sebastián, Spain

WTh690 Measuring Cortical Activity During Gross Motor Imitation with HD-DOT
Tessa George, Rebecca Rochowiak, Kelsey King, Daniel Lidstone, Natasha Marrus, Carolina Pacheco, Bahar Tunçgenç, René Vidal, Stewart Mostofsky, Adam Eggebrecht, Washington University in St. Louis, St. Louis, United States

WTh691 Loss of Action related Function and Connectivity in The Blind Extrastriate Body Area
Or Yizhar, Zohar Tal, Amir Amedi, The Hebrew University of Jerusalem, Tel Aviv Yafo, Israel

Motor Behavior Other

WTh677 A novel weighted-coherence method highlights corticomuscular coherence during balance tasks
Thomas Legrand, Laure Müller, Scott Mongold, Gilles Naeije, Marc Vander Ghinst, Mathieu Bourguignon, Université Libre de Bruxelles, Auderghem, Belgium

NEUROANATOMY, PHYSIOLOGY, METABOLISM AND NEUROTRANSMISSION

Anatomy and Functional Systems

WTh692 Handedness and its genetic influences are associated with cortical asymmetries in 31,864 individuals
Zhiqiang Sha, Antonietta Pepe, Dick Schijven, Amaia Carrión Castillo, James Roe, René Westerhausen, Marc Joliot, Simon Fisher, Fabrice Crivello, Clyde Francks, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands

WTh693 Lateral Prefrontal Gradients of Organization Revealed by Comprehensive Meta-Analyses Using NeuroLang
Majd Abdallah, Gaston Zanitti, Valentin Iovene, Demian Wassermann, Inria, Palaiseau, France

WTh694 Modulation of gut-brain phase-amplitude coupling in biofeedback relaxation: a pilot study
Rudy Jeanne, Timothy Piton, Sephora Minjoz, Nicolas Bassan, Morgan Le Chenechal, Antoine Semblat, Pascal Hot, Astrid Kibleur, Sonia Pellissier, Université Savoie Mont-Blanc, Chambéry, France

WTh695* A second look at the second half: Uncovering brain-global asymmetry patterns at the population level
Karin Saltoun, Danilo Bzdok, Lynn K. Paul, B.T. Thomas Yeo, Vaibhav Sharma, Ralph Adolphs, Jörn Diedrichsen, McGill University, Montreal, Canada

WTh696 Organization of thalamocortical structural covariance & a corresponding atlas of the mouse thalamus
Yohan Yee, Benjamin Darwin, Jacob Ellegood, Jason Lerch, Hospital for Sick Children, Toronto, Canada

WTh697 Hemisphere-determining volumetry differs between chimpanzee and human brains
Patrick Friedrich, Sam Vickery, Kaustubh Patil, William D. Hopkins, Simon Eickhoff, Susanne Weis, Felix Hoffstaedter, Institute of Neuroscience and Medicine (INM-7: Brain and Behavior), Jülich, North-Rhine-Westphalia, Juelich, Germany

WTh698 Using sex and gender for grey matter and total intracranial volume prediction provides best results
Julienne Götz, Carolin Lewis, Melina Grahlow, Sarah Friedrich, Philippa Hüpen, Ute Habel, Birgit Derntl, University of Tübingen, Germany, Tübingen, Germany

WTh699 Multimodal Brain-Phenotype Relations of the Angular Gyrus: Group Trends versus Individual Profiles
Christiane Jockwitz, Camilla Krämer, Johanna Stumme, Paulo Dellani, Susanne Moebus, Nora Bittner, Svenja Caspers, Research Center Juelich, Juelich, Germany

WTh700* Subcortical anatomy of the Ventral and Dorsal Attention Networks
Pedro Alves, Michel Thiebaut de Schotten, Faculty of Medicine, Universidade de Lisboa, Lisbon, Portugal

WTh701 Cytoarchitectonic mapping of the human olfactory tubercle and terminal islands
Andrea Brandstetter, Joko Poleksic, Hartmut Mohlberg, Christian Schiffer, Sebastian Bludau, Aleksandar Malikovic, Katrin Amunts, Research Center Juelich, Juelich, Germany

WTh702 Visual Outcomes after Epilepsy Surgery – A Quantitative Evaluation of Clinical and Diffusion Data
Philip Pruckner, Mehmet-Salih Yildirim, Ekaterina Patarai, Christoph Baumgartner, Andreas Reitner, Christian Dorfer, Karl Rössler, Karl-Heinz Nanning, Gregor Kasprian, Silvia Bonelli, Medical University of Vienna, Vienna, Austria

WTh703* Selective prediction error learning activity in the human entorhinal cortex
Rodrigo. Henríquez-Ch, Reinaldo Uribe-San Martin, Pablo Billeke, Joaquín Herrero-Soiza, Patricio Mellado, Christian Cantillano, Pablo Fuentealba, Francisco Aboitiz, Pontificia Universidad de Chile, Santiago, Chile

WTh704 The MultiTac: A robot for use in neuroscience research regarding stroking touch
Grace Whitaker, Alejandro Weinstein, Wael El-Deredy, Adarsh Makdani, Francis McGlone, AC3E, Valparaiso, Chile

Cortical Anatomy and Brain Mapping

WTh705 Task fMRI Prediction of Postsurgical Cognitive Outcomes in Temporal Lobe Epilepsy: A Meta-Analysis
Andrew Crow, Alisha Thomas, Yash Rao, Ashithkumar Beloor-Suresh, David Weinstein, Walter Hinds, Michael Sperling, Joseph Tracy, Thomas Jefferson University Sidney Kimmel Medical College, Philadelphia, United States

- WTh706 Replicability of Gray Matter Correlates of Childhood Maltreatment: a Multi-Site Voxel-Based Analysis**
Janik Goltermann, Nils Winter, Lena Waltemate, Elisabeth Schrammen, Susanne Meinert, Dominik Grotegerd, Katharina Dohm, Thiel Katharina, Hannah Lemke, Alexandra Winter, Fabian Breuer, Marius Gruber, Jonathan Repple, Henning Teismann, Marco Hermesdorf, Klaus Berger, Andreas Jansen, Igor Nenadic, Tilo Kircher, Nils Opel, Udo Dannlowski, University of Münster, Münster, Germany
- WTh707* Receptor architectonic organization of macaque monkey primary and secondary somatosensory cortex**
Meiqi Niu, Seán Froudust-Walsh, Ling Zhao, Lucija Rapan, Karl Zilles, Nicola Palomero-Gallagher, Forschungszentrum Jülich, Jülich, Germany
- WTh708 Sex and gender effects on cortical thickness in 9- and 10-year-olds**
Carinna Torgerson, Megan Herting, Jeiran Choupan, University of Southern California, Los Angeles, United States
- WTh709 Rare folding patterns detection in the central sulcus area with an unsupervised deep learning method**
Louise Guillon, Joël Chavas, Denis Rivière, Tamar Makin, Jean-François Mangin, CEA, NeuroSpin, Gif-sur-Yvette, France
- WTh710* Layer-specific cortical cell distributions of cytoarchitectonic areas anchored in BigBrain**
Sebastian Bludau, Timo Dickscheid, Casey Paquola, Daniel Zachlod, Christian Schiffer, Eric Upschulte, Katrin Amunts, Institute of Neuroscience and Medicine (INM-1), Forschungszentrum Jülich, Germany, Jülich, Germany
- WTh711 The Predictive Validity of Language Mapping for Post-operative Paediatric Epilepsy Surgery Outcome**
Alexander Marsh, Darren Quelch, Chris Hobson, Ingram Wright, UHBW NHS Trust, Bristol, United Kingdom
- WTh712 Morphological changes following resective temporal lobe epilepsy surgery**
Karoline Leiber, Yujang Wang, Newcastle University, Newcastle Upon Tyne, United Kingdom
- WTh713 The 'bridged' central sulcus and its relationship to the pli de passage fronto-pariétal moyen**
Renate Schweizer, Anna Muellen, German Primate Center, Goettingen, Germany
- WTh714 Morphological Variability of the Inferior Frontal Sulcus in the Human Brain**
Erika Nolan, Michael Petrides, Montreal Neurological Institute; McGill University, Montreal, Canada
- WTh715* Computing and exploring inter-subject alignments for large fMRI datasets**
Alexis Thual, Quang Huy Tran, Tatiana Zemskova, Bertrand Thirion, Stanislas Dehaene, CEA Neurospin, Paris, France
- WTh716 Morphometry Analysis of Response to Levodopa and Deep Brain Stimulation in Parkinsons dDiseas**
Hannah Jergas, Jan Niklas Petry-Schmelzer, Till Dembek, Haidar Dafsari, Veerle Visser-Vandewalle, Juan Carlos Baldermann, Michael Barbe, University of Cologne, Cologne, Germany
- WTh717 Contrastive learning helps decipher Cingulate Cortical Folding Patterns**
Joël Chavas, Louise Guillon, Denis Rivière, Jean-François Mangin, CEA, Gif-sur-Yvette, France
- WTh718 Benchmarking transfer learning from Human to Chimpanzee for sulcus recognition**
Pierre Auriou, Bastien Cagna, Denis Rivière, Ophélie Foubet, William Hopkins, Jean-François Mangin, CEA, Neurospin, Saint-Aubin, France
- WTh719 Point-clouds pattern mining**
Marco Pascucci, Héloïse de Vareilles, Denis Rivière, Ophélie Foubet, Joël Chavas, Louise Guillon, Bastien Cagna, ZhongYi Sun, Jean-François Mangin, Neurospin – CEA, Gif-Sur-Yvette, France
- WTh720 Auditory evoked gamma entrainment is correlated with cortical thickness in the prefrontal cortex**
Anna-Lisa Schuler, Giulio Ferrazzi, Nigel Colenbier, Giorgio Arcara, Francesco Piccione, Florinda Ferreri, Daniele Marinazzo, Giovanni Pellegrino, San Camillo Hospital, Venice, Italy
- WTh721 Surfify : a geometric deep learning oriented Python framework for cortical surface analysis**
Corentin Ambroise, Vincent Frouin, Edouard Duchesnay, Antoine Grigis, CEA, Gif-Sur-Yvette, France
- WTh722 Brain Coherence Predicts Cognitive Performance and Neuropathology: Computing the Distance Index**
Magda L Dumitru, Max Korbmacher, Hauke Bartsch, University of Bergen, Bergen, Norway
- WTh723 B1+ correction of R1 maps decreases left-right cortical asymmetry**
Christopher Rowley, JeeSu Suh, Luciano Minuzzi, Benicio Frey, G. Bruce Pike, Christine Tardif, Nicholas Bock, McGill University, Montreal, Canada
- WTh724 A connectivity-constrained computational model of the topography of human ventral temporal cortex**
Nicholas Blauch, Marlene Behrmann, David Plaut, Carnegie Mellon, Pittsburgh, United States
- WTh725 Neural correlates of egocentric navigation: Body topographic motor map in area V6**
Elena Aggus Vella, Daniel-Robert Chebat, Shachar Maidenbaum, Amir Amedi, Reichman University, Herzliya, Israel
- WTh726 Real-time Diffusion-MRI-based Tractography-guided TMS for Motor and Speech Cortical Mapping**
Pantelis Lioumis, Victor Souza, Renan Matsuda, Andrey Zhdanov, Ana Soto de la Cruz, Hanna Renvall, Risto Ilmoniemi, D. Baran Aydogan, Aalto University School of Science, Espoo, Finland
- WTh727* Three principal components of human cortical gene expression**
Richard Dear, Jakob Seidlitz, Ross Markello, Aurina Arnatkeviciute, Konrad Wagstyl, Armin Raznahan, Ed Bullmore, Kevin Anderson, Petra Vertes, University of Cambridge, Cambridge, United Kingdom
- WTh728 Spatial covariation of cortical sulci in the human and chimpanzee brain**
Jose Luis Alatorre Warren, Emi Takahashi, Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Charlestown, United States
- WTh729 Brain morphological variability of the racial identity using HCP data**
Daniel Atilano-Barbosa, Fernando Barrios, Universidad Nacional Autónoma de México, Querétaro, Mexico
- WTh730 A Mathematical Model of Cerebral Cortical Folding Development Based on a Biomechanical Hypothesis**
Monica Hurdal, Sarah Kim, Florida State University, Tallahassee, United States
- WTh731 Estimating voxel-wise laminar depth from surface meshes**
Denis Chaimow, Nikolaus Weiskopf, Romy Lorenz, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

- WTh732 Maternal prenatal inflammation and offspring cortical morphology in early adulthood**
Lassi Björnholm, Anni Niskanen, Martta Kerkelä, Juha Veijola, University of Oulu, Oulu, Finland
- WTh733 3D visualization of cortical veins by MR angiography for neurosurgical planning and navigation**
Christian Vollmar, Nicolas Jorden, Peter Winkler, Thomas Pfluger, Soheyl Noachtar, University of Munich, Munich, Germany
- WTh734 Choroid Plexus Calcification Associations with Cortical and Subcortical Brain Volumes**
Iyad Ba Gari, Elizabeth Haddad, Daniel Dixon, Alyssa Zhu, Tasfiya Islam, Kevin Low, Shruti Gadewar, Neda Jahanshad, University of Southern California, Marina del Rey, United States
- WTh735 Vestibular function differentially impacts gray matter in the prefrontal and sensorimotor cortices**
Dominic Padova, J. Tilak Ratnanather, Andreia Faria, Raymond So, Stanley Zhu, Yuri Agrawal, Johns Hopkins University School of Medicine, Philadelphia, United States
- WTh736 Whole-brain assessments of sulcal variability in population-level neuroimaging data**
William Snyder, Denis Rivière, Jean-François Mangin, Petra Vertes, Armin Raznahan, Edward T. Bullmore, University of Cambridge, Cambridge, United Kingdom

Cortical Cyto- and Myeloarchitecture

- WTh737 Atypical microstructural gradient organization in temporal lobe epilepsy**
Jessica Royer, Sara Larivière, Raúl Rodríguez-Cruces, Shahin Tavakol, Bo-yong Park, Casey Paquola, Andrea Bernasconi, Neda Bernasconi, Birgit Frauscher, Boris Bernhardt, McGill, University, Montreal Neurological Institute, Montreal, Canada
- WTh738 Human intracortical structure differs between sexes and is modulated by the menstrual cycle**
Svenja Küchenhoff, Rachel Zsido, Casey Paquola, Boris Bernhardt, Simon Eickhoff, Julia Sacher, Sofie Valk, Forschungszentrum Jülich, Darmstadt, Germany
- WTh739 Macroscale axis of laminar thickness co-variation in human cortex**
Amin Saberi, Konrad Wagstyl, Casey Paquola, Simon Eickhoff, Boris Bernhardt, Sofie Valk, Max Planck Institute for Human Cognitive and Brain Sciences, Jülich, Germany
- WTh740 The higher the better? Comparing MRI biomarkers of cortical myelin and iron across field strength**
Ilona Lipp, Juliane Damm, Evgeniya Kirilina, Carsten Jäger, Anna Jauch, Kerrin Pine, Siawoosh Mohammadi, Luke Edwards, Saskia Helbling, Daniel Rose, Roman Wittig, Catherine Crockford, Nikolaus Weiskopf, Max Planck Institute for Human Cognitive & Brain Sciences, Leipzig, Germany
- WTh741 Asymmetry of ex vivo intracortical microstructure is linked to functional organization asymmetry**
Bin Wan, Amin Saberi, Casey Paquola, Richard Bethlehem, Boris Bernhardt, Sofie Valk, Research Center Juelich, Leipzig, Germany
- WTh742 Quantitation of acute and chronic effects of mild traumatic brain injury on cortical myelin content**
Nahian Chowdhury, Sean Mahoney, Van Ngo, Andrei Irimia, University of Southern California, Los Angeles, United States

Normal Development

- WTh754 Examining Litter Specific Variability in Mice and its Impact on Neurodevelopmental Studies**
Vanessa Valiquette, Elisa Guma, Raihaan Patel, Lani Cupo, Eric Plitman, Daniel Gallino, Gabriel Devenyi, Mallar Chakravarty, McGill University, Montréal, Canada
- WTh755 Advanced Diffusion-Weighted MRI Metrics are Associated with Pubertal Development in over 6,000 Youth**
Katherine Lawrence, Zvart Abaryan, Emily Laltoo, James McCracken, Paul Thompson, University of Southern California, Marina del Rey, United States
- WTh756 Growth Charts for Regional Cortical Thickness Across the Human Lifespan**
Sahar Ahmad, Ye Wu, Zhengwang Wu, Weili Lin, Li Wang, Gang Li, Pew-Thian Yap, The University of North Carolina at Chapel Hill, Chapel Hill, United States
- WTh757 Neurological development during school age measured via prefrontal resting-state connectivity**
Jihyun Cha, in-gyu Choi, Gyoungheui Oh, Taewan Kim, Jinhyung Choi, Hanseung Nam, Haewoo Kang, JongKwan Choi, OBELAB, Inc., Seoul, Korea, Republic of
- WTh758 Neonatal white matter microstructure correlates of 18-month neurodevelopmental outcomes**
Oliver Gale-Grant, Daan Christiaens, Andrew Chew, Shona Falconer, Lucilio Cordero-Grande, Jana Hutter, Anthony Price, Joseph V. Hajnal, Chiara Nosarti, Grainne McAlonan, A David Edwards, Dafnis Batalle, King's College London, London, United Kingdom
- WTh759 Longitudinal analyses of cortical structure in the ABCD Study: Sex-by-time interactions**
Andrew Marshall, Shana Adise, Shaomin Zhao, Eric Kan, Megan Herting, Elizabeth Sowell, Children's Hospital Los Angeles, Los Angeles, United States
- WTh760 Brain vigilance effects on the relationship between age and modularity**
Yameng Gu, Ruchika Prakash, Ohio State University, Columbus, United States

Subcortical Structures

- WTh761 Dynamic Subcortical Modulators of Human Default Mode Network Function**
Ben Harrison, Christopher Davey, Hannah Savage, Alec Jamieson, Christine Leonards, Bradford Moffat, Rebecca Glarin, Trevor Steward, University of Melbourne, Melbourne, Australia
- WTh762 Cytoarchitectonic Maps of the Human Metathalamus in 3D Space**
Kai Kiwitz, Andrea Brandstetter, Christian Schiffer, Sebastian Bludau, Hartmut Mohlberg, Mona Omidyeganeh, Philippe Massicotte, Katrin Amunts, C. and O. Vogt Institute of Brain Research, Düsseldorf, Germany
- WTh763 Charting human subcortical maturation across the adult lifespan with in vivo 7 T MRI**
Steven Miletić, Pierre-Louis Bazin, Scott Isherwood, Max Keuken, Anneke Alkemade, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh764 Subcortical brain alterations across CNVs converge with those in idiopathic psychiatric conditions**
Kuldeep Kumar, Claudia Modenato, Clara Moreau, Christopher Ching, Annabelle Harvey, Sandra Martin-Brevet, Guillaume Huguet, Jean-Louis Martineau, Charles-Olivier Martin, Elise Douard, Ana Dos Santos Silva, Marianne van den Bree, David Linden, Michael Owen, Jeremy Hall, Sarah Lippé, Guillaume Dumas, Carrie Bearden, Paul Thompson, Sebastien Jacquemont, Centre de recherche CHU Sainte-Justine and University of Montréal, Montreal, Canada

- WTh765 Gradients in the Human Globus Pallidus revealed in vivo using Quantitative MRI**
Nitzan Kurer, Elior Drori, Aviv Mezer, The Edmond and Lily Safra Center for Brain Sciences, The Hebrew University of Jerusalem, Jerusalem, Israel
- WTh766 Unified 3D maps of microscopic architecture and MRI of the human brain**
Anneke Alkemade, Pierre-Louis Bazin, Rawien Balesar, Kerrin Pine, Evgeniya Kirilina, Harald Möller, Robert Trampel, Johan Kros, Max Keuken, Ronald Bleys, Dick Swaab, Andreas Herrler, Nikolaus Weiskopf, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh767 Reduced Subcortical Iron Associates with Schizotypal Symptoms in Healthy and Psychotic Populations**
Yu Veronica Sui, Faye McKenna, Hilary Bertisch, Pippa Storey, Rebecca Anthopolos, Donald Goff, Alexey Samsonov, Mariana Lazar, New York University School of Medicine, New York, United States
- WTh768 Hippocampal volume in patients with rheumatoid arthritis and ulcerative colitis in the UKBiobank**
Jennifer Cox, Marius de Groot, James Cole, Steve Williams, King's College London, Le Pecq, France
- WTh769 Four-dimensional Mapping of Dynamic Subcortical Development of Infant Brains**
Liangjun Chen, Ya Wang, Zhengwang Wu, Yue Shan, Hongtu Zhu, Tengfei Li, Weili Lin, Li Wang, Gang Li, University of North Carolina at Chapel Hill, Chapel Hill, United States
- WTh770 Cortico-thalamo-cerebellar networks and their association with neurocognition in healthy population**
Minji Ha, Soo Hwan Park, Taekwan Kim, Yoobin Kwak, Sun-Young Moon, Silvia Kyungjin Lho, Minah Kim, Jun Soo Kwon, Seoul National University, Seoul, Korea, Republic of
- WTh771 Differential involvement of first-order thalamic nuclei in human language systems**
Liu Mengxing, Garikoitz Lerma-Usabiaga, Pedro M. Paz-Alonso, BCBL, Donostia, Spain
- WTh772 Cerebellar and Cerebral Volumes Coevolve Throughout Primate Evolution**
Neville Magielse, Roberto Toro, Katja Heuer, Sofie Valk, Max Planck Institute for Cognitive and Brain Sciences, Leipzig, Germany
- WTh773 The Structural Connectivity Mapping of the Intralaminar Thalamic Nuclei**
Vinod Kumar, Klaus Scheffler, Wolfgang Grodd, Max Planck Institute for Biological Cybernetics, Tübingen, Germany
- WTh774* A conserved developmental axis of thalamocortical connectivity in humans**
Stuart Oldham, Gareth Ball, Murdoch Children's Research Institute, Parkville, Australia
- WTh775 Subcortical involvement in working-memory updating processes**
Anne Trutti, Steven Miletić, Zsuzsika Sjoerds, Scott Isherwood, Pierre-Louis Bazin, Desmond Tse, Sarah Habli, Pal Goa, Asta Haberg, Bernhard Hommel, Birte Forstmann, Leiden University, Amsterdam, Netherlands
- WTh776 Vasculature mapping in human superior and inferior colliculus**
Kevin Sitek, Omer Faruk Gulban, University of Pittsburgh, Pittsburgh, United States
- WTh777 Hormones & Medial Temporal Lobe: 7T MRI Shows Volume Changes at Subfield Level over Menstrual Cycle**
Rachel Zsido, Angharad Williams, Claudia Barth, Bianca Serio, Cornelia Ketscher, Frauke Beyer, A.Veronica Witte, Arno Villringer, Julia Sacher, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

- WTh778 The relationship between locus coeruleus activity and pupillary responses changes with age**
Elizabeth Riley, Nicholas Cicero, Khena Swallow, Adam Anderson, Eve De Rosa, Cornell University, Ithaca, United States
- WTh779 Optimization of Quantitative Measurement of Hippocampal Dentation Using Midlayer AUC Analysis**
Lawrence Ver Hoef, Anandh Kilpattu Ramaniharan, University of Alabama at Birmingham, Birmingham, United States

Transmitter Receptors

- WTh780* Mapping neurotransmitter systems to the structural and functional organization of the human cortex**
Justine Hansen, Golia Shafiei, Ross Markello, Kelly Smart, Sylvia Cox, Martin Norgaard, Vincent Beliveau, Yanjun Wu, Jean-Dominique Gallezot, Etienne Aumont, Stijn Servaes, Stephanie Scala, Jonathan DuBois, Gabriel Wainstein, Gleb Bezgin, Thomas Funck, Taylor Schmitz, Nathan Spreng, Jean-Paul Soucy, Sylvain Baillet, Synthia Guimond, Jarmo Hietala, Marc-Andre Bedard, Marco Leyton, Eliane Kobayashi, Pedro Rosa-Neto, Melanie Ganz, Gitte Knudsen, Nicola Palomero-Gallagher, James Shine, Richard Carson, Lauri Tuominen, Alain Dagher, Bratislav Misic, McGill University, Montreal, Canada

White Matter Anatomy, Fiber Pathways and Connectivity

- WTh781 Insight into Hominoid Brain Evolution: A White Matter Atlas of the Lar Gibbon**
Katherine Bryant, Alexandre Khrapitchev, Mads Bertelsen, Paul Manger, Jerome Sallet, Rogier Mars, Wellcome Centre for Integrative Neuroimaging, FMRIB, Nuffield Department of Clinical Neurosciences, Oxford, United Kingdom
- WTh782 Comparative diffusion MRI study on the vertical occipital fasciculus across mammalian species**
Hiromasa Takemura, Takaaki Kaneko, Chet C. Sherwood, G Allan Johnson, Markus Axer, Frank Ye, David Leopold, National Institute for Physiological Sciences, Okazaki, Japan
- WTh783 Neuroinflammation as Potential Precursor of Leukoencephalopathy in Breast Cancer Patients**
Gwen Schroyen, Charlotte Sleurs, Emilie Bartsoen, Donatienne van Weehaeghe, Koen Van Laere, Ann Smeets, Sabine Deprez, Stefan Sunaert, KU Leuven, Leuven, Belgium
- WTh784 Quantifying Hippocampal Circuitry in Humans**
Melisa Gumus, Michael Mack, University of Toronto, Toronto, Canada
- WTh785 Analyzing the axon-diameter based connectome using the Human Connectome Project MRI scans and data**
Hila Gast, Ronnie Krupnik, Yaniv Assaf, Tel Aviv University, Tel Aviv, Israel
- WTh786 DTI Identifies White Matter Tracts Mediating Language Ability in Patients with Infiltrating Gliomas**
Mia Andreoli, Melissa-Ann Mackie, Matthew Tate, MD PhD, Northwestern University Feinberg School of Medicine, Chicago, United States
- WTh787 Evidence for two subcortical routes for visual motion perception in healthy adults**
Elise Rowe, Marta Garrido, The University of Melbourne, Melbourne, Australia
- WTh788 Altered Brain Structural Connectivity in Healthy Young People Exposed to Early-Life Stress**
Lena Lim, Lia Talozzi, Henrietta Howells, Singapore Institute for Clinical Sciences, Agency for Science, Technology and Research (ASTAR), Singapore, Singapore

- WTh789 White matter variability, cognition, and disorders: a systematic review**
Stephanie Forkel, Patrick Friedrich, Michel Thiebaut de Schotten, Henrietta Howells, CNRS, Bordeaux, France
- WTh790 Structural connectivity of the human angular gyrus using diffusion tractography and microdissection**
Laurent Petit, Kariem Mahdy Ali, François Rheault, Arnaud Boré, Maxime Descoteaux, Silvio Sarubbo, CNRS, Bordeaux, France
- WTh791 Measuring white matter alterations in cannabis users via diffusion-weighted MRI: a systematic review**
Emily Robinson, Arush Arun, Adam Clemente, Maria Gloria Rossetti, Paolo Brambilla, Marcella Bellani, Camilla Crisanti, Helen Valerie Curran, Valentina Lorenzetti, Australian Catholic University, Melbourne, Australia
- WTh792 The Fronto-Central Tract: A new tract in the human brain, identified by Diffusion Tensor Imaging**
Chiara Notaro, Virginia Flanagan, Soheyl Noachtar, Christian Vollmar, Ludwig-Maximilians-Universität, Munich, Germany
- WTh793 Lifestyle-related differences in white matter neurite density and morphology of older adults**
Nora Bittner, Maria Leonora Fatimah Agan, Christiane Jockwitz, Susanne Moebus, Svenja Caspers, Institute for Anatomy I, Medical Faculty & University Hospital Düsseldorf, Heinrich-Heine-University, Düsseldorf, Germany
- WTh794 Subiculum – BNST Structural Connectivity in Humans and Macaques**
Samuel Berry, Chiara Casella, Thomas Lancaster, Andrew Lawrence, John Aggleton, Mark Postans, Cardiff University, London, United Kingdom
- WTh795 Mapping the subcortical connectome using in vivo diffusion MRI: assessing reliability**
Jason Kai, Ali Khan, Roy Haast, Jonathan Lau, University of Western Ontario, London, Canada
- WTh796 Quantitative Neuroimaging Findings of Whole Brain DTI Analysis of Long-COVID Patients At 7T**
Ameen Al Qadi, Oleksandr Khagai, Shams Rashid, Sera Saju, Nathalie Jette, Bradley Delman, Priti Balchandani, Icahn School Of Medicine At Mount Sinai, New York, United States
- WTh797 Characterizing the spatial pattern of cortical tractography projections within the human thalamus**
Amber Howell, Shaun Warrington, Jie Lisa Ji, Rachel Cooper, Maxwell Shinn, Brendan Adkinson, Clara Fonteneau, Stamatios Sotiropoulos, John Murray, Alan Anticevic, Yale University, New Haven, United States
- WTh798 Multi-cohort multi-modal evidence for regulated myelination along a brainstem-cortex connection**
Leighton Barnden, Benjamin Crouch, Richard Kwiatek, Peter DeFante, Zack Shan, Kiran Thapaliya, Donald Staines, Griffith University, Gold coast, Australia
- WTh799* Understanding brain diversity across ontogeny and phylogeny within a single common space**
Shaun Warrington, Elinor Thompson, Matteo Bastiani, Jessica Dubois, Luke Baxter, Rebecca Slater, Saad Jbabdi, Rogier Mars, Stamatios Sotiropoulos, University of Nottingham, Nottingham, United Kingdom
- WTh800 Investigation of the IFOF in the macaque fascicularis brain using 11.7 T MRI diffusion data**
Maëlig Chauvel, Ivy Uszynski, Clara Fischer, Fabrice Poupon, Christophe Destrieux, Igor Maldonado, Cyril Poupon, Université Paris-Saclay, CEA, CNRS, BAOBAB, Neurospin, Gif-sur-Yvette, France
- WTh801 White Matter Tract Length Differences with Age: Analysis of 18 Major Tracts Using TRACULA**
Tyler Robinson, Paul T.H. Chang, J. Jean Chen, Rotman Research Institute, Baycrest, North York, Canada
- WTh802 The optic radiations representing the foveal and peripheral visual fields age differently**
John Kruper, Noah Benson, Sendy Caffarra, Julia Owen, Yue Wu, Aaron Lee, Cecilia Lee, Jason Yeatman, Ariel Rokem, University of Washington, Sammamish, United States
- WTh803 Optimization of the RecoBundles method for recognition of short white matter bundles**
Nabil Vindas, Nicole Labra, Cyril Poupon, Jean-François Mangin, Université Paris-Saclay, CEA, CNRS, NeuroSpin, Gif-sur-Yvette, France
- WTh804 Neural wiring in the white matter space reflected in a population connection distribution map**
Dongha Lee, Tak Youn, Hae-Jeong Park, Korea Brain Research Institute, Daegu, Korea, Republic of
- WTh805 Concise structural connectivity of the human parieto-premotor network**
Marvin Jüchtern, Usman Jawed Shaikh, Svenja Caspers, Ferdinand Binkofski, Department of Clinical Cognition Science, Clinic of Neurology, RWTH Aachen University clinic, Aachen, Germany
- WTh806 Validation of a Cluster-Based Segmentation Tool for Clinical Use of Diffusion Tractography Data**
Laura Vavassori, Luca Zigiotta, Francesco Corsini, Luciano Annicchiarico, Gabriele Amorosino, Emanuele Olivetti, Paolo Avesani, Silvio Sarubbo, University of Trento, Corte Franca, Italy
- WTh807 Hybrid PLI-diffusion MRI tractography in the BigMac dataset**
Silei Zhu, Istvan Huszar, Michiel Cottaar, Greg Daubney, Alexandre Khrapitchev, Rogier Mars, Jeroen Mollink, Connor Scott, Adele Smart, Jerome Sallet, Saad Jbabdi, Karla Miller, Amy Howard, Oxford University, Oxford, United Kingdom
- WTh808 Inter-individual, intra-and interregional variability of axon diameters in the human corpus callosum**
Maria Morozova, Henriette Rusch, Carsten Jäger, Siawoosh Mohammadi, Markus Morawski, Nikolaus Weiskopf, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- WTh809 The effect of deafness and sign language on white matter tissue complexity in dorsal language tracts**
Emma Campbell, Guido Guberman, Hélène Nadeau, Marie Simon, Latifa Lazzouni, Lisane Moses, Hugo Théoret, Franco Lepore, University of Montreal, Montréal, Canada
- WTh810 Probabilistic tractography based on microstructural diversity in the human insular cortex**
Julian Quabs, Svenja Caspers, Nora Bittner, Institute for Anatomy I, Medical Faculty, Heinrich Heine University of Düsseldorf, Germany, Düsseldorf, Germany
- WTh811 Fixel-Based Analysis of the Diffusion Properties of Patients with TBI and Chronic Health problems**
Xiaojian Kang, Kaitly Zhu, Maheen Adamson, VA Palo Alto Health Care System, Palo Alto, United States

Neuroanatomy Other

- WTh743 The Long-term Impact of Prenatal Maternal Immune Activation on Brain Morphology in Late Childhood**
Anna Suleri, Elisabet Blok, Melisa Durkut, Anna-Sophie Rommel, Lot de Witte, Vincent Jaddoe, Veerle Bergink, Tonya White, Erasmus University Medical Centre (Erasmus MC), Rotterdam, Netherlands
- WTh744 Fetal testosterone is associated with sex differences in brain structure**
Florian Kurth, Christian Gaser, Debra Spencer, Melissa Hines, Eileen Luders, University of Auckland, Auckland, New Zealand
- WTh745 Melting brains: universal scaling law of cortical morphology across spatial scales**
Yujang Wang, Bruno Mota, Newcastle University, Newcastle upon Tyne, United Kingdom
- WTh746 Insights into the biological bases of modern human brain shape**
Barbara Molz, Philipp Gunz, Else Eising, Gökberk Alagöz, Dick Schijven, Clyde Francks, Simon Fisher, Max Planck Institute for Psycholinguistics, Nijmegen, Netherlands
- WTh747 Abnormal development of transient fetal zones in mild isolated fetal ventriculomegaly**
Lana Vasung, Caitlin Rollins, Jennings Zhang, Clemente Velasco-Annis, Edward Yang, Ivy Lin, Jason Sutin, Janet Soul, Judy Estroff, Susan Connolly, Carol Barnewol, Simon Warfield, Ali Gholipour, Henry Feldman, P Grant, Boston Children's Hospital, Harvard Medical School, Boston, United States
- WTh748 Comparison of the shape of the Central Sulcus in Hominids**
Ophelie Foubet, Zhong Sun, William D. Hopkins, Jean-François Mangin, Neurospin, CEA, Gif-sur-Yvette, France
- WTh749 Dynamic Structural Brain Changes in Anorexia nervosa: Replication and Virtual Histology Approach**
Stefan Ehrlich, Joseph King, Daniel Geisler, Tomáš Paus, Yash Patel, Klaas Bahnsen, Fabio Bernardoni, Faculty of Medicine, Technische Universität Dresden, University Hospital C.G. Carus, Dresden, Germany
- WTh750 A comparison of intracranial volume estimation methods and their associations with age**
Stener Nerland, Therese Stokkan, Kjetil Jørgensen, Laura Wortinger, Geneviève Richard, Dani Beck, Dennis van der Meer, Lars Westlye, Ole Andreassen, Ingrid Agartz, Claudia Barth, Diakonhjemmet hospital, Oslo, Norway
- WTh751 Neuroimaging estrogen synthase and its relation to brain structure: A multimodal MRI-DTI-PET study**
Jana Immenschuh, Manon Dubol, Xuan Gu, My Jonasson, Gunnar Antoni, Johan Wikström, Yasuyoshi Watanabe, Kayo Takahashi, Mark Lubberink, Inger Sundström-Poromaa, Erika Comasco, Uppsala Universitet, Uppsala, Sweden
- WTh752 Human amygdala in the BigBrain: The high-resolution mapping and 3D reconstruction**
Olga Kedo, Christian Schiffer, Timo Dickscheid, Katrin Amunts, Research Centre Juelich, Juelich, Germany
- WTh753 Anterior and Middle Cerebral Artery Caliber and Perivascular Space Size in Young Adults**
Patrick Sherlock, Kirsten Lynch, Arthur Toga, Jeiran Choupan, University of Southern California, Los Angeles, United States

NEUROINFORMATICS AND DATA SHARING

Brain Atlases

- WTh812 Towards a structural connectivity atlas of the parrot brain using high-field 17.2T diffusion MRI**
Ivy Uszynski, Luisa Ciobanu, Solène Bardin, Pierre Estienne, Kei Yamamoto, Cyril Poupon, CEA / NeuroSpin, Gif-sur-Yvette, France
- WTh813 Neuromaps: structural and functional interpretation of brain maps**
Ross Markello, Justine Hansen, Zhen-Qi Liu, Vincent Bazinet, Golia Shafiei, Laura Suarez, Nadia Blostein, Jakob Seidlitz, Mallar Chakravarty, Armin Raznahan, Bratislav Misic, Montreal Neurological Institute and Hospital, McGill University, Montreal, Canada
- WTh814 Cornell Dog Atlas and Template in AFNI – The CornDog Atlas v3.0**
Daniel Glen, Paul Taylor, Clement Garin, Philippa Johnson, Erica Barry, NIMH, Bethesda, United States
- WTh815 SVReg-MultiParc: A Method for Automated Labeling of Brains with Multiple Parcellation Schemes**
Anand Joshi, Francoise Tadel, Kenneth Taylor, Takfarinas Medani, Dileep Nair, David Shattuck, Richard Leahy, University of Southern California, Los Angeles, United States
- WTh816 “Caress the Detail”: A high resolution brain MRI reference Atlas**
Mark Schira, George Paxinos, Steve Kassem, Markus Barth, Zoey Isherwood, Thomas Shaw, University of Wollongong, Wollongong, Australia
- WTh817 Correspondences across 16 group-level functional brain network atlases**
Ruby Kong, Nathan Spreng, Lisa Nickerson, Alex Fornito, Angela Laird, Adeel Razi, Anastasia Yendiki, Caterina Gratton, Evan Gordon, Linda Larson-Prior, Jessica Cohen, Jessica Damoiseaux, Richard Betzel, Simon Eickhoff, Sepideh Sadaghiani, Lucina Uddin, B.T. Thomas Yeo, National University of Singapore, Singapore, Singapore
- WTh818 Mapping the mesoscale vasculature with 3D post-mortem histology**
Pierre-Louis Bazin, Anneke Alkemade, Rawien Balesar, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh819 The MASSP subcortical probabilistic atlas**
Pierre-Louis Bazin, Steven Miletić, Scott Isherwood, Anneke Alkemade, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh820 A multi-scale probabilistic atlas of the human connectome**
Yasser Alemán-Gómez, Alessandra Griffo, Jean-Christophe Houde, Elena Najdenovska, Stefano Magon, Meritxell Bach Cuadra, Maxime Descoteaux, Patric Hagmann, Centre Hospitalier Universitaire Vaudois (CHUV) and University of Lausanne (UNIL), Lausanne, Switzerland
- WTh821 Singularity of the chimpanzee brain superficial white matter bundles using diffusion MRI**
Maëlig Chauvel, Ivy Uszynski, Alexandros Popov, William D. Hopkins, Jean-François Mangin, Cyril Poupon, Université Paris-Saclay, CEA, CNRS, BAOBAB, Neurospin, Gif-sur-Yvette, France
- WTh822 MIITRA atlas: Multimodal high resolution templates for the older adult brain**
Yingjuan Wu, Abdur Raquib Ridwan, Mohammad Rakeen Niaz, David Bennett, Konstantinos Arfanakis, Illinois Institute of Technology, Chicago, United States

- WTh823 Reconstructing a four-dimensional diffusion magnetic resonance imaging atlas of the fetal brain**
Ruike Chen, Cong Sun, Yuhao Liao, Tingting Liu, Junyan Wang, Yi-Cheng Hsu, Yi Sun, Yi Zhang, Guangbin Wang, Dan Wu, Zhejiang University, Hangzhou, China
- WTh824 Brain Hierarchical Atlas: Multi-Scale vs. Optimal Strategies in the Healthy and Pathological Brain**
Jesus Cortes, Ibai Diez, Borja Camino-Pontes, Antonio Jimenez-Marin, Iñaki Escudero, Beatriz Mateos, Alberto Cabrera Zubizarreta, Miguel Muñoz, Sebastiano Stramaglia, Marta Subiran, Jorge Garcia-Condado, Paolo Bonifazi, Biocruces-Bizkaia Health Research Institute, Barakaldo, Spain
- WTh825 Constellation: a structural connectivity-based parcellation of Julich-Brain GapMaps**
Clément Langlet, Denis Rivière, Timo Dickscheid, Katrin Amunts, Jean-François Mangin, CEA, Gif-sur-Yvette, France
- WTh826 Quantitative validation of 3D neurotransmitter receptor atlases from 2D autoradiographs**
Thomas Funck, Konrad Wagstyl, Mona Omidyeganeh, Claude Lepage, Paule-J. Toussaint, Katrin Amunts, Alexander Thiel, Nicola Palomero-Gallagher, Alan Evans, Forschungszentrum Jülich, Jülich, Canada
- WTh827 Age-dependent Multimodal MRI Template Construction from UK Biobank**
Christoph Arthofer, Stephen Smith, Gwenaëlle Douaud, Andreas Bartsch, Jesper Andersson, Frederik Lange, University of Oxford, Oxford, United Kingdom
- WTh828 3D Reconstruction of BigBrain#2 at 20-micron with 1-micron coronal overlays**
Claude Lepage, Hartmut Mohlberg, Paule-Joanne Toussaint, Susanne Wenzel, Alan Evans, Katrin Amunts, McGill University, Montreal, Canada
- WTh829 Neuroimaging-based Taxonomy of Cognitive Concepts Reveals 19 Topics and Relative Brain Maps**
Davide Coraci, Gustavo Cevolani, Giacomo Handjaras, Luca Cecchetti, IMT School for Advanced Studies Lucca, Lucca, Italy
- WTh830 Superficial White Matter Tract Atlases Across the Human Lifespan**
Ye Wu, Sahar Ahmad, Wenjiao Lyu, Pew-Thian Yap, University of North Carolina at Chapel Hill, Chapel Hill, United States

Databasing and Data Sharing

- WTh831 Addressing Privacy Risk in Neuroscience Data: From Data Protection to Harm Prevention**
Anita Jwa, Russell Poldrack, Stanford University, Palo Alto, United States
- WTh832 Decentralized Parallel Independent Component Analysis for Multimodal, Multisite Data**
Chan Aek Panichvatana, Bradley Baker, Eric Verner, Bhaskar Ray, Pranav Suresh, Vince Calhoun, Jingyu Liu, Georgia State University, Cumming, United States
- WTh833 MICA-MICs: An open MRI dataset for multiscale neuroscience**
Jessica Royer, Raúl Rodríguez-Cruces, Shahin Tavakol, Sara Larivière, Peer Herholz, Qionglin Li, Reinder Vos de Wael, Casey Paquola, Oualid Benkarim, Bo-yong Park, Alex Lowe, Daniel Margulies, Jonathan Smallwood, Andrea Bernasconi, Neda Bernasconi, Birgit Frauscher, Boris Bernhardt, McGill University, Montreal Neurological Institute, Montreal, Canada

- WTh834 The next generation of OpenNeuro**
Franklin Feingold, Christopher Markiewicz, Ross Blair, Melanie Ganz, Yaroslav Halchenko, Nell Hardcastle, Robert Innis, Eric Miller, Gregory Noack, Martin Norgaard, Cyril Pernet, Kate Rountree, Adam Thomas, Joseph Wexler, Russell Poldrack, Stanford University, Stanford, United States
- WTh835 Exploring Demographic Effects on Regional Brain Volumes in a Large-Scale MRI Study**
Ali Howidi, Nicholas Bock, McMaster University, Toronto, Canada
- WTh836 NeuroSynth 2.0: Reimagining Neuroimaging Meta-Analyses**
James Kent, Alejandro De La Vega, Nicholas Lee, Taylor Salo, University of Texas at Austin, Austin, United States
- WTh837 The Normative Modeling Framework for Computational Psychiatry: A Tutorial and Dataset**
Saige Rutherford, Charlotte Frazz, Richard Dinga, Seyed Mostafa Kia, Thomas Wolfers, Mariam Zabihi, Pierre Berthet, Amanda Worker, Serena Verdi, Laura Han, Derek Andrews, Johanna Bayer, Paola Dazzan, Philip McGuire, Roel Mocking, Aart Schene, Chandra Sripada, Ivy Tso, Elizabeth Duval, Soo-Eun Chang, Mary Heitzeg, Alexandra Burt, Luke Hyde, Christine Nordahl, Ole Andreassen, Lars Westlye, Roland Zahn, Henricus Ruhe, Christian Beckmann, Andre Marquand, Donders Institute, Radboud University Medical Center, Nijmegen, Netherlands
- WTh838* The BigMac dataset: linking tissue microstructure with MR signals throughout the macaque brain**
Amy Howard, Istvan Huszar, Michiel Cottaar, Greg Daubney, Alexandre Khrapitchev, Rogier Mars, Jeroen Mollink, Lea Roumazeilles, Connor Scott, Nicola Sibson, Adele Smart, Jerome Sallet, Saad Jbabdi, Karla Miller, University of Oxford, UK, Oxford, United Kingdom
- WTh839 Defining cohorts across distributed datasets: why metadata harmonisation and integration is worth it**
Sebastian Urchs, Jonathan Armoza, Nikhil Bhagwat, Qing Wang, Jérôme Dockès, Ksenia Zaytseva, David Keator, Nazek Queder, Yaroslav Halchenko, Satrajit Ghosh, Jeffrey Grethe, David Kennedy, Bryan Caron, Mallar Chakravarty, Jean-Baptiste Poline, McGill, Montreal, Canada
- WTh840 New guidelines on phenotypic data representation in BIDS**
Samuel Guay, Eric Earl, Hao-Ting Wang, Remi Gau, Dorota Jarecka, David Keator, Melissa Kline Struhl, Satrajit Ghosh, Louis De Beaumont, Adam Thomas, University of Montreal, Montreal, Canada
- WTh841 JNIfTI – a portable, human-readable and extensible format for MRI/fMRI data sharing and exchange**
Qianqian Fang, Edward Xu, Northeastern University, Boston, United States
- WTh842 A modular BIDS extension proposal for mega-analyses with potentially non-BIDS compliant datasets**
Giuseppe Gallitto, Balint Kincses, Christian Büchel, Ulrike Bingel, Tor Wager, Tamás Spisák, University Hospital Essen, Essen, Germany
- WTh843 The Neurobiology of Hypnotic Suggestibility and Response to Hypnosis**
William McGeown, Nii Nikolova, Iris Ionita, Irving Kirsch, Giuliana Mazzoni, Rothwelle Tate, Annalena Venneri, University of Strathclyde, Linlithgow, United Kingdom
- WTh844 DataLad Catalog: Generate a user-friendly data browser from structured DataLad metadata**
Stephan Heunis, Michael Hanke, Christian Mönch, Benjamin Poldrack, Forschungszentrum Jülich, Jülich, Germany

WTh845* The Courtois Neuromod project: a deep, multi-domain fMRI dataset to build individual brain models

Julie Boyle, Basile Pinsard, Valentina Borghesani, Marie St-Laurent, François Lespinasse, François Paugam, Pravish Sainath, Shima Rastegarnia, Arnaud Boré, Jeni Chen, Emilie Dessureault, Elizabeth DuPre, Yann Harel, Mariya Toneva, Sylvie Belleville, Simona Brambati, Julien Cohen-Adad, Adrian Fuente, Martin Hebart, Karim Jerbi, Pierre Rainville, Leila Wehbe, Pierre Bellec, CRIUGM, Montreal, Canada

WTh846 NIDM-Experiment: An Extensible, Structured Vocabulary for Annotating Neuroscience Data

Karl Helmer, Derek Chaplin, Nazek Queder, Satrajit Ghosh, Camille Maumet, Jean-Baptiste Poline, Theo van Erp, David Keator, Massachusetts General Hospital and Harvard Medical School, Charlestown, United States

WTh847 Study Design and Example Imaging Results from CUPS: The Champaign Urbana Population Study

Bruce Damon, Aaron Anderson, Sheeba Anteraper, Paul Arnold, Diane Beck, Paul Camacho, Patricia Jones, Zhi-Pei Liang, Hillary Schwarb, Hacene Serrai, Bradley Sutton, Sina Tafti, Bansari Upadhyay, Andrew Webb, Mark Whiting, Tracey Wszalek, Carle Health, Urbana, United States

WTh848 NeuroHub Update – A Data and Computational Infrastructure for Collaborative, Reproducible Research

Bryan Caron, Verena Schuster, Rida Abou-Haider, Natacha Beck, Serge Boroday, Samir Das, Alexandre Hutton, Diana Le, Xavier Lecours-Boucher, Melanie Legault, James Mehta, Emmet O'Brien, Liam O'Callaghan, Darcy Quesnel, Pierre Rioux, Adam Trefonides, Shen Wang, Ksenia Zaytseva, Shawn Brown, Alan Evans, Jean-Baptiste Poline, McGill University, Montreal, Canada

WTh849 BIDS and NIDM Annotation and Terminology Tools Supporting Cross Dataset Queries

Nazek Queder, Sanu Ann Abraham, Karl Helmer, Theo van Erp, Vivian Tien, Jean-Baptiste Poline, Jeffrey Grethe, Satrajit Ghosh, David Keator, University of California, Irvine, Irvine, United States

WTh850* EEG2BIDS Wizard: flexible open-source cross-platform tool for anonymization and BIDS standardization

Christine Rogers, Alizee Wickenheiser, Laetitia Fesselier, Jessica Callegaro, Cecile Madjar, Samir Das, Alan Evans, McGill University, Montreal, Canada

Workflows

WTh870 COCOABOX: A Modular Toolbox for Connectivity Estimation and Analysis

Lucia Jajcay, Barbora Reháková Bučková, Stanislav Jiříček, Jakub Kořenek, Anna Pidnebesna, David Tomeček, Jaroslav Hlinka, Czech Technical University in Prague – Faculty of Electrical Engineering, Prague, Czech Republic

WTh871 BrainStat: a toolbox for brain-wide statistics and neuroscientific contextualization

Reinder Vos de Wael, Şeyma Bayrak, Oualid Benkarim, Peer Herholz, Sara Larivière, Raul Rodríguez-Cruces, Casey Paquola, Seok-Jun Hong, Bratislav Misić, Alan Evans, Sofie L. Valk, Boris Bernhardt, McGill University, Montreal, Canada

WTh872 FMRI data analysis: How does analytical variability vary with sample size?

Elodie Germani, Camille Maumet, Univ Rennes, Inria, CNRS, Inserm, Rennes, France

WTh873 IDIO: an integrated Diffusion Image Operator for diffusion MRI data analysis

Chih-Chin Heather Hsu, Kuan-Tsen Kuo, Shin Tai Chong, Yi-Chia Kung, Chu-Chung Huang, Ching-Po Lin, National Yang Ming Chiao Tung University, Taiwan

WTh874 Curation of BIDS (CuBIDS): a sanity-preserving workflow for curating large BIDS datasets

Sydney Covitz, Tinashe Tapera, Azeez Adebimpe, Lei Ai, Maxwell Bertolero, Eric Feczko, Alexandre Franco, Raquel Gur, Ruben Gur, Timothy Hendrickson, Kahini Mehta, Audrey Houghton, Kristin Murtha, Anders Perrone, Jenna Schabdach, Jacob Vogel, Timothy Robert-Fitzgerald, Russell Shinohara, Aaron Alexander-Bloch, Damien Fair, Michael Milham, Matthew Cieslak, Theodore Satterthwaite, University of Pennsylvania, Philadelphia, United States

WTh875 NIRV: the NeuroImaging Report Viewer

Adam Richie-Halford, Matthew Cieslak, Azeez Adebimpe, Sydney Covitz, McKenzie Hagen, John Kruper, Mengjia Lyu, Oscar Miranda-Dominguez, Audrey Houghton, Damien Fair, Jason Yeatman, Theodore Satterthwaite, Ariel Rokem, University of Washington, Seattle, United States

WTh876* A Data Steward Walks into a Bar: Experiences managing open and restricted brain imaging data

Laura Waite, Alexander Waite, Michael Hanke, Research Center Jülich, Jülich, Germany

WTh877 Moving Beyond Processing and Analysis-Related Variation in Neuroscience

Xinhui Li, Lei Ai, Steve Giavasis, Hecheng Jin, Eric Feczko, Ting Xu, Jon Clucas, Alexandre Franco, Anibal Solon Heinsfeld, Azeez Adebimpe, Joshua Vogelstein, Chaogan Yan, Oscar Esteban, Russell Poldrack, Cameron Craddock, Damien Fair, Theodore Satterthwaite, Gregory Kiar, Michael Milham, Georgia Institute of Technology, ATLANTA, United States

WTh878 FAIRly big: A framework for reproducible processing of large-scale data – a UK Biobank showcase

Adina Wagner, Laura Waite, Małgorzata Wierzba, Felix Hoffstaedter, Alexander Waite, Benjamin Poldrack, Simon Eickhoff, Michael Hanke, Juelich Research Centre, Juelich, Germany

WTh879 Modular neuroimaging workflows with PUMI: exemplified by the RPN resting-state fMRI pipeline

Kevin Hoffschlag, Balint Kincses, Mohamad Abouras, Tamas Spisak, University Hospital Essen, Germany, Essen, Germany

WTh880 Connecting BIDS Statistical Model specifications to FSL-based fMRI analyses

Jeanette Mumford, Christopher Markiewicz, Shashank Bansal, Russell Poldrack, Stanford, Madison, United States

WTh881 Aa: a powerful and flexible neuroimaging pipeline in MATLAB

Tibor Auer, Michael Jones, Ethan Knights, Jonathan Peelle, University of Surrey, Guildford, United Kingdom

WTh882 ClinicaDL: an open-source deep learning software for reproducible neuroimaging processing

Elina Thibeau-Sutre, Mauricio Díaz, Ravi Hassanaly, Olivier Colliot, Ninon Burgos, Paris Brain Institute, Paris, France

WTh883 Seamless pRF mapping analysis from data to maps

David Linhardt, Michael Woletz, Maria Vasileiadi, Garikoitz Lerma-Usabiaga, Christian Windischberger, Medical University of Vienna, Vienna, Austria

WTh884 Macapype: An open multi-software framework for non-human primate anatomical MRI processing

David Meunier, Kep Kee Loh, Bastien Cagna, Abdelhadi Essamlali, Clément Bergman-Klimine, Régis Trapeau, Julien Sein, Olivier Coulon, La Timone Neurosciences Institute (INT), Marseille 05, France

- WTh885 CobraWap: a modular cortical wave analysis pipeline for heterogeneous data**
Robin Gutzen, Giulia De Bonis, Elena Pastorelli, Cristiano Capone, Chiara De Luca, Anna Letizia Allegra Mascaro, Francesco Resta, Francesco Saverio Pavone, Maria Sanchez-Vives, Maurizio Mattia, Sonja Grün, Andrew Davison, Pier Stanislao Paolucci, Michael Denker, Forschungszentrum Jülich, Jülich, Germany
- WTh886 Earplug fiducial markers in multi-sequence cranial MRI: A pilot study**
Johannes Gerb, Marianne Dieterich, Valerie Kirsch, Ludwig-Maximilians-University, Munich, Germany
- WTh887 RABIES: an Automated Pipeline for Rodent fMRI Image Processing**
Gabriel Desrosiers-Gregoire, Joanes Grandjean, Gabriel Devenyi, Mallar Chakravarty, McGill University, Montreal, Canada
- WTh888* Advances in the Clinica software platform for clinical neuroimaging studies**
Omar El Rifai, Mauricio Diaz Melo, Ravi Hassanaly, Matthieu Joulot, Alexandre Routier, Elina Thibeau-Sutre, Ghislain Vaillant, Stanley Durreleman, Ninon Burgos, Olivier Colliot, Institut du Cerveau et de la Moelle épinière, Paris, France
- WTh889 Automated segmentation and unfolding of the neonatal hippocampus**
Emily Nichols, Jordan DeKraker, Emma Duerden, Ali Khan, Western University, London, Canada
- WTh890 Physiopy: a Python suite for handling physiological data recorded in MRI settings**
David Romero-Bascones, Stefano Moia, Daniel Alcalá, Apoorva Ayyagari, Katherine Bottenhorn, Molly Bright, César Caballero-Gaudes, Inés Chavarría, Vicente Ferrer, Soichi Hayashi, Vittorio Iacovella, Tomas Lenc, François Lespinasse, Robert Oostenveld, Taylor Salo, Rachael Stickland, Eneko Uruñuela, Kristina Zvolanek, Marcel Zwiers, Mondragon Unibertsitatea, Mondragon, Spain
- WTh891 Automated Identification of Focal Cortical Dysplasia (FCD) on Structural MRI**
Shervin Abdollahi, Sara Inati, Souheil Inati, kathryn Snyder, National Institutes of Health (NIH), Bethesda, United States
- WTh892 Nilearn: Machine learning and statistics for fMRI in Python**
Nicolas Gensollen, Thomas Bazeille, Kshitij Chawla, Jerome-Alexis Chevalier, Jérôme Dockès, Elizabeth DuPre, Daniel Gomez, Alexandre Gramfort, Julia Huntenburg, Eric Larson, Robert Luke, Christopher Markiewicz, Kamalaker Dado, Binh Nguyen, Ana Luísa Pinho, Sylvain Takerkart, Alexis Thuat, Taylor Salo, Gaël Varoquaux, Hao-Ting Wang, Bertrand Thirion, INRIA, Palaiseau, France
- WTh893 The Landscape of Platforms for Modern Neuroinformatics Computing**
Jennings Zhang, Rudolph Pienaar, Boston Children's Hospital, Harvard Medical School, Boston, United States
- WTh894 Integrated multimodal neuroimaging data processing using micapipe**
Raúl Rodríguez-Cruces, Jessica Royer, Peer Herholz, Sara Larivière, Reinder Vos de Wael, Casey Paquola, Oualid Benkarim, Bo-yong Park, Janie Degré-Pelletier, Jordan DeKraker, Luis Concha, Boris Bernhardt, McGill University, Montreal, Canada
- WTh895 Qrater: centralized web application for collaborative image quality control**
Sofia Fernandez-Lozano, Mahsa Dadar, Cassandra Morrison, Ana Manera, Vladimir Fonov, Louis Collins, McGill University, Montreal, Canada
- WTh852* Continuous testing of neuroimaging results across pipelines and datasets**
Jacob Sanz-Robinson, Jean-Baptiste Poline, Tristan Glatard, McGill University, Montréal, Canada
- WTh853 SOVABIDS : EEG-to-BIDS conversion software focused on automation, reproducibility & interoperability**
Yorguin Mantilla, Brayan Hoyos Madera, Steffen Bollmann, Aswin Narayanan, David White, Tom Johnstone, Oren Civier, Universidad de Antioquia, Medellín, Colombia
- WTh854 HMRI-vQC : A visualization Quality Control (vQC) toolbox for Multi-Parameter Mapping**
Siya Sherif, Christine Bastin, Pierre Maquet, Gilles Vandewalle, Evelyne Balteau, Martina Callaghan, Christophe Phillips, University of Liège, Liège, Belgium
- WTh855 Neptune: a software toolbox for spinal cord functional MRI data analysis and quality assurance**
D Rangaprakash, Robert Barry, Massachusetts General Hospital, Harvard Medical School, Boston, United States
- WTh856 Neuroimaging meta-research: A lab hackathon**
Kendra Oudyk, Jérôme Dockès, Jonathan Armoza, Nikhil Bhagwat, Jacob Sanz-Robinson, Mohammad Torabi, Sebastian Urchs, Qing Wang, Jean-Baptiste Poline, McGill University, Montreal, Canada
- WTh857 Visualization of structural neuroimaging data in R with fsbrain**
Tim Schäfer, Christine Ecker, Goethe University Frankfurt, Frankfurt am Main, Germany
- WTh858 NeuroScout: a flexible platform for rapid, reproducible re-analysis of naturalistic fMRI datasets**
Alejandro de la Vega, Roberta Rocca, Ross Blair, Christopher Markiewicz, James Kent, Satrajit Ghosh, Tal Yarkoni, University of Texas Austin, Austin, United States
- WTh859* TRX: A community-oriented tractography file format**
Francois Rheault, Valérie Hayot-Sasson, Robert Smith, Christopher Rorden, Jacques-Donald Tournier, Eleftherios Garyfallidis, Fang-Cheng Yeh, Christopher Markiewicz, Matthew Brett, Ben Jeurissen, Paul Taylor, D. Baran Aydogan, Derek Pisner, Serge Koudoro, Soichi Hayashi, Daniel Haehn, Steve Pieper, Daniel Bullock, Emanuele Olivetti, Jean-Christophe Houde, Marc-Alexandre Côté, Maxime Descoteaux, Flavio Dell'Acqua, Alexander Leemans, Bennett Landman, Franco Pestilli, Ariel Rokem, Vanderbilt University, Nashville, United States Minor Outlying Islands
- WTh860 PET2BIDS: a library for converting Positron Emission Tomography data to BIDS**
Anthony Galassi, Martin Norgaard, Claus Svarer, Gabriel Gonzalez-Escamilla, Paul Wighton, Russell Poldrack, Douglas Greve, Adam Thomas, Robert Innis, Gitte Knudsen, Melanie Ganz, Cyril Pernet, National Institute of Mental Health, Bethesda, United States
- WTh861 Rica – Reports for visualizing and classifying ICA components of multi-echo fMRI**
Eneko Uruñuela, Basque Center on Cognition, Brain and Language, Donostia – San Sebastián, Spain
- WTh862 A web-based multimodal brain network analysis platform**
Jinseok Eo, Hae-Jeong Park, Yonsei University, Seoul, Korea, Republic of
- WTh863 Performance of Human Readers in Localizing Focal Cortical Dysplasia**
Lennart Walger, Matthias Schmitz, Bastian David, Johannes Birkenheier, Franziska Grau, Asadeh Lakghomi, Julia Nordsiek, Anna Odenthal, Martin Vychopen, Albert Becker, Alexander Radbruch, Rainer Surges, Christian Elger, Elke Hattingen, Theodor Rüber, UKB, Bonn, Germany
- WTh851 Towards Heterogeneous Data Integration: The NeuroLang Approach**
Gaston Zanitti, Majd Abdallah, Demian Wassermann, INRIA, Palaiseau, France

Informatics Other

- WTh864 Federated analysis in COINSTAC reveals functional network connectivity links to smoking and alcohol**
Kelly Rootes-Murdy, Harshvardhan Gazula, Bharath Holla, Sunitha Basodi, Eric Verner, Ross Kelly, Vince Calhoun, Georgia State University, Atlanta, United States
- WTh865 Advances in the CHRIS Platform to Support AI Workflows in Research and Clinical Contexts**
Rudolph Pienaar, Gideon Pinto, Jorge Bernal-Rusiel, Sandip Samal, Jennings Zhang, Sheng He, Hyuk Jin Yun, Yangming Ou, Kiho Im, P Ellen Grant, Boston Children's Hospital and Harvard Medical School, Boston, United States
- WTh866 Reliability of Effect Sizes and Activation Locations in Large Neuroimaging Studies**
Patrick Sadil, Martin Lindquist, Johns Hopkins University, Baltimore, United States
- WTh867 Introduction of the PhysIO noise modeling toolbox to CBRAIN**
Darius Valevicius, Natacha Beck, Serge Boroday, Pierre Rioux, Alan Evans, Bryan Caron, Reza Adalat, Najmeh Khalili-Mahani, McGill Centre for Integrative Neuroscience, Montreal, Canada
- WTh868 Altered Brain Signal Complexity in fMRI Improves AD Classification in Deep Learning Model**
Yi-Ju Lee, Chun-houh Chen, Academia Sinica, HsinChu County, Taiwan
- WTh869 An analysis of #OHBM Twitter participation**
Niall Duncan, Taipei Medical University, Taipei, Taiwan

NOVEL IMAGING ACQUISITION METHODS

Anatomical MRI

- WTh896 Cross population generalization potential of SRGAN-based MRI upsampling**
Lucas da Costa Campos, Leona Förster, Martin Kocher, Svenja Caspers, Institute of Neuroscience and Medicine (INM-1), Research Centre Jülich, Jülich, Germany
- WTh897 Alterations in Cortical Thickness and Grey Matter Volume in Adolescents with Conduct Disorder**
Ru Zhang, James Blair, Nida Majeed, Jaimie Elowsky, Johannah Bashford-Largo, AVANTIKA MATHUR, Matthew Dobbartin, Karina Blair, Sahil Bajaj, Boys Town National Research Hospital, Omaha, United States
- WTh898 Childhood obesity is associated with decreased gray matter volumes: a longitudinal study**
Fukun Jiang, Peter Manza, Dardo Tomasi, Weibin Ji, Yaqi Zhang, Feifei Wu, Guanya Li, Wenchao Zhang, Yang Hu, Nora Volkow, Gene-Jack Wang, Yi Zhang, Xidian University, Xi'an, China
- WTh899 Structural brain correlates of childhood trauma with replication across two community-based samples**
Rebecca Madden, Kimberley Atkinson, Xueyi Shen, Claire Green, Robert Hillary, Yoriko Hirose, Emma Hawkins, Anca-Larisa Sandu, gordon waiter, Christopher McNeil, Matthew Harris, Archie Campbell, David Porteous, Jennifer MacFarlane, Alison Murray, Douglas Steele, Liana Romaniuk, Stephen Lawrie, Andrew McIntosh, Heather Whalley, The University of Edinburgh, Edinburgh, United Kingdom
- WTh900 A Cerebellar Role in Appetite Control: Evidence from Typical and Pathological Populations**
Michelle Sader, Gordon Waiter, Justin Williams, University of Aberdeen, Aberdeen, United Kingdom

- WTh901 Quantitative T1 & PD mapping at 7T from a single MP2RAGE scan optimised for UNI & FLAWS contrasts**
Ayse Sila Dokumaci, Katy Vecchiato, Raphael Tomi-Tricot, Pip Bridgen, Michael Eyre, Tobias Wood, Chiara Casella, Jan Sedlacik, Tom Wilkinson, Sharon Giles, Joseph V. Hajnal, Shaihan Malik, Jonathan O'Muircheartaigh, David W. Carmichael, King's College London, London, United Kingdom
- WTh902 Automated Analysis of Low-Field Brain MRI in Cerebral Malaria**
Danni Tu, Manu Goyal, Jordan Dworkin, Samuel Kampondeni, Lorenna Vidal, Eric Biondo-Savin, Sandeep Juvvadi, Prashant Raghavan, Jennifer Nicholas, Karen Chetcuti, Kelly Clark, Timothy Robert-Fitzgerald, Theodore Satterthwaite, Paul Yushkevich, Christos Davatzikos, Guray Erus, Nicholas Tustison, Douglas Postels, Terrie Taylor, Dylan Small, Russell Shinohara, University of Pennsylvania, Philadelphia, United States
- WTh903 Voxel based analysis differences of third generation Holocaust survivors**
Adi Cohen, Maya Farragi, Yaniv Assaf, Tel Aviv University, Tel Aviv, Israel
- WTh904 Anatomical characterization of the Frontal Voice Areas based on the individual sulcal anatomy**
Melina Cordeau, Ihsane Bichoutar, David Meunier, Guillaume Auzias, Olivier Coulon, Isaure Michaud, Kep Kee Loh, Pascal Belin, La Timone Neurosciences Institute, Marseille, France
- WTh905 The Effects of Pregnancy on Maternal Brain Plasticity in the Early Postpartum Period**
Susanne Stichel, Natalia Chechko, RWTH University Hospital Aachen, Aachen, Germany
- WTh906 Microstructural Abnormalities Related to Bradykinesia in Early PD Identifies Two Distinct Networks**
Charlotte Dore, Simona Jasaityte, Christian Lambert, UCL, London, United Kingdom
- WTh907 Neural Correlates of Childhood Trauma Interaction with Cocaine Use Disorder**
Vyoma Sahani, Tien Tong, Amnah Eltahir, Phillip Kamilar-Britt, Yasmin Hurd, Keren Bachi, Icahn School of Medicine at Mount Sinai, New York, United States
- WTh908 Cortical gyrification abnormalities in early-onset obsessive-compulsive disorder**
Inkyung Park, Minji Ha, Taekwan Kim, Silvia Kyungjin Lho, Sun-Young Moon, Minah Kim, Jun Soo Kwon, Seoul National University, Seoul, Korea, Republic of
- WTh909 Optimization of dual flip angle T1 mapping of 7T MRI with B1 transmit variability**
Jyoti Mangal, Ayse Sila Dokumaci, David Leitao, Raphael Tomi-Tricot, Amer Ajanovic, Stephen Ogier, Tom Wilkinson, Sharon Giles, Philippa Bridgen, Claudia Prieto, Joseph V. Hajnal, Shaihan Malik, David W. Carmichael, King's College London, London, United Kingdom
- WTh910 Receptive vocabulary correlates negatively with regional grey matter volume in 9-to-10-year-olds**
Lara Langensee, Johan Mårtensson, Lund University, Lund, Sweden
- WTh911 Effects of physical activity on the hippocampal volume: evidence from VBM-MRI**
Jesús Adrián-Ventura, Irene Monzonís-Carda, Anna Miró-Padilla, Anastasia Cherednichenko, Cristina Cano Melle, Diego Moliner-Urdiales, César Ávila, Universitat Jaume I, Castelló, Spain
- WTh912 Morphometric analysis of T1-weighted MRI in patients with second look MRI-negative focal epilepsy**
Nicholas Fearn, Jan Rémi, Soheyl Noachtar, Denise Birk, Christian Vollmar, University Hospital of Munich (LMU), Munich, Germany

- WTh913 Sensation seeking and grey matter volume: A failed replication**
Hope Price, Andrew Lawrence, Nils Muhlert, The University of Manchester, Salford, United Kingdom
- WTh914 Altered grey matter cortical and subcortical T1-weighted/T2-weighted ratio in premature-born adults**
Aurore Menegaux, Benita Schmitz-Koep, Christian Gaser, David Schinz, Melissa Thalhammer, Elin Brandes, Marcel Daamen, Henning Boecker, Claus Zimmer, Josef Priller, Dieter Wolke, Peter Bartmann, Christian Sorg, Dennis Hedderich, Department of Diagnostic and Interventional Neuroradiology, Munich, Germany
- WTh915 Perivascular spaces in mild traumatic brain injury patients treated with hyperbaric oxygen therapy**
Francesca Sibilia, Rachel Custer, Andrei Irimia, Farshid Sepehrband, Arthur Toga, Ryan Cabeen, University of Southern California, Los Angeles, United States
- WTh916 Hippocampal subfields atrophy in prediabetes and type 2 diabetes: Results from The Maastricht Study**
Jennifer Monereo-Sánchez, Jacobus Jansen, Sebastian Köhler, Coen Stehouwer, Abraham Kroon, David Linden, Miranda Schram, Maastricht University, Maastricht, Netherlands
- WTh917* Super-resolution in-vivo human MR imaging**
Young Woo Park, Myung Kyun Woo, Isaac Adanyeguh, Dinesh Deelchand, Jaejin Cho, Pierre-Gilles Henry, Gulin Oz, Christophe Lenglet, Center for Magnetic Resonance Research, University of Minnesota, Minneapolis, United States
- WTh918 Comparison of volumetric segmentation of T1w sequences using Tx/Rx head and Rx only head coils**
Mohamed Salah Khelif, Shawna Farquharson, Laura McCambridge, Natalia Egorova-Brumley, Alex Billett, Amy Brodtmann, The Florey Institute of Neuroscience and Mental Health, Heidelberg, Australia

BOLD fMRI

- WTh919 A novel free-running framework for Blood Oxygen Level Dependent functional MRI**
Benedetta Franceschiello, Simone Rumac, Tom Hilbert, Christopher Roy, Giulio Degano, Anna Gaglianese, Jerome Yerly, Matthias Stuber, Tobias Kober, Ruud van Heeswijk, Micah Murray, Eleonora Fornari, Lausanne University Hospital, Lausanne, Switzerland
- WTh920 Intra-individual Similitude of Response Inhibition and Interference Resolution**
Scott Isherwood, Pierre-Louis Bazin, Steven Miletić, Anne Trutti, Anneke Alkemade, Desmond Tse, Pal Goa, Sarah Habli, Asta Haberg, Birte Forstmann, University of Amsterdam, Amsterdam, Netherlands
- WTh921 Towards data salvage in high-movement cohorts: bagging yields robust brain-behaviour relationships**
Jivesh Ramduny, Tamara Vanderwal, Clare Kelly, Trinity College Dublin, Dublin, Ireland
- WTh922 Functional connectivity of the amygdala nuclei in bipolar disorder: a multicentric study**
Sidney Krystal, Laure Gracia, Camille Pigué, Mircea Polosan, Julien Savatovsky, Josselin Houenou, Pauline Favre, Neurospin, Gif-sur-Yvette, France

- WTh923 Associations between cerebral blood flow, cardiovascular risk and resting state regional homogeneity**
Bhim Adhikari, Elliot Hong, Danny Wang, Paul Thompson, Neda Jahanshad, Jessica A. Turner, Theo Van Erp, Kathryn Hatch, Thomas Nichols, Shuo Chen, Peter Kochunov, University of Maryland School of Medicine, Baltimore, United States
- WTh924 Temporal and spatial characterization of physiological noise in rs-fMRI at high temporal resolution**
Olga Kuldavletova, Marin Mauboussin, Mikaël Naveau, Anaïs Vandeveld, Nicolas Delcroix, Marc Joliot, Olivier Etard, University of Caen, Caen, France
- WTh925 Cognitive flexibility judgements for affective and non-affective stimuli**
Alexander Douma, Cameron Tovin, Katrina Nguyen, Julia Hryckowian, Ajay Satpute, Aaron Heller, Lucina Uddin, Jason Nomi, University of Miami, Coral Gables, United States
- WTh926 Hippocampus integrates discrete information during cognitive tasks**
Yuanyuan Yang, Jinhui Li, Kemeng Chen, Xiaoyan Wu, Xiaoqian Jiang, Yuanqi Cai, Ruiwang Huang, School of Psychology, South China Normal University, Guangzhou, China
- WTh927 Abnormal degree centrality and voxel-mirrored homotopic connectivity in small vessel disease**
Ting Zhang, Nan Yang, Mingxian Zhang, Sina Chen, Zhixian Hu, Xiaoying Zhang, Yu Guo, Guangtao Liu, Ruiwang Huang, South China Normal University, GuangdongGuangzhou, China
- WTh928 Comparing Denoising Approaches in Ultra-High Field Resting State fMRI**
Marishka Manoj Mehta, Yael Jacob, Laurel Morris, Icahn School of Medicine at Mount Sinai, New York, United States
- WTh929 BISEPI for enhanced detection of BOLD activity in isotropic submillimeter-resolution fMRI at 7T**
Guoxiang Liu, Adnan Shah, Takashi Ueguchi, Seiji Ogawa, NICT, Osaka, Japan
- WTh930 Variability in scanner performance contributes to the low reproducibility of fMRI data**
Tim Schmidt, Susanna Gobbi, Todd Hare, Philippe Tobler, Klaas P Pruessmann, Zoltan Nagy, Laboratory for Social and Neural Systems Research (SNS), Zürich, Switzerland
- WTh931 3D-SPARKLING for functional MRI: A pilot study for retinotopic mapping at 7T**
Zaineb Amor, Chaithya G.R., Guillaume Daval-Fréro, Bertrand Thirion, Franck Mauconduit, Philippe Ciuciu, Alexandre Vignaud, CEA Saclay/Neurospin, Gif-Sur-Yvette, France
- WTh932 Using Carpet Plots to Analyze Blood Arrival Times in the Brain during CO2 Challenge fMRI**
Bradley Fitzgerald, Jinxia Yao, Thomas Talavage, Lia Hocke, Blaise Frederick, Yunjie Tong, Purdue University, West Lafayette, United States
- WTh933 Topographical and Laminar Distribution of Audiovisual Processing in the Superior Temporal Sulcus**
Ryesa Mansoor, Yuhui Chai, Andrew Morgan, Daniel Handwerker, Peter Bandettini, NIMH, Bethesda, United States
- WTh934 Quasi-Periodic Patterns In High vs Low Experience Mindfulness Meditation Practitioners**
Harrison Watters, Eric Maltbie, Shella Keilholz, Emory University, Atlanta, United States
- WTh935 High Resolution fMRI: 3D EPI Temporal Random Walk Encoding on Nex-Gen 7T Scanner**
Suhung Park, Salvatore Torrisi, Alexander Beckett, An Vu, David Feinberg, Chonnam National University, Gwangju, Korea, Republic of

- WTh936 Mindfulness-based Intervention Enhances Amygdala-Postcentral Connectivity during Emotion Regulation**
Rungravee Roschuen, Ai-Ling Hsu, Chih-Mao Huang, Yi-Ping Chao, Changwei Wu, Taipei Medical University, Taipei, Taiwan
- WTh937 Can physiological signals estimation improve fMRI connectivity assessment in anesthetized rats?**
Mikaël Naveau, Coline Vanschamelhout, Marin Mauboussin, Romaric Saulnier, Palma Pro, Thomas Freret, Olivier Etard, Caen Normandie University, CNRS, GIP CYCERON, Caen, France
- WTh938 Vascular versus neural effects of brain oxygenation, smoking status and satiation on task-based fMRI**
Sabine Vollstädt-Klein, Alycia Lee, Patrick Kinz, Ronald Fischer, Sebastian Thomas, Simon Hubertus, Falk Kiefer, Lothar Schad, Central Institute of Mental Health, Mannheim, Germany
- WTh939 Resting state functional connectivity in Temporomandibular Disorder (TMD)**
Cole Anderson, Swati Rane-Levendovsky, Peggy Lee, Mark Drangsholt, University of Washington, Seattle, United States
- WTh940 The intervention of music training on brain aging: a functional gradient study**
Sijia Guo, Haoyu Bian, Jiawei Wang, Liangfeng Feng, Jing Lu, Dezhong Yao, UESTC, Chengdu, China
- WTh941 Response typicality in socially anxious adolescent reflects social phobia: A naturalistic fMRI study**
Shuqi Xie, Yang Hu, Wenjing Liu, Jingjing Liu, Changminghao Ma, Shuyu Jin, Lei Zhang, Yinzhi Kang, Yue Ding, Xiaochen Zhang, Zhishan Hu, Wenhong Cheng, Zhi Yang, Shanghai Mental Health Center, Shanghai, China
- WTh942 Multiscale coordination of human BOLD dynamics**
Brandon Munn, Eli Müller, Mac Shine, University of Sydney, Sydney, Australia
- WTh943 The effects of real-time fMRI neurofeedback on response inhibition and attention**
Jeanette Popovova, Reza Mazloum, Gianluca Macaudo, Philipp Stämpfli, Patrik Vuilleumier, Sascha Frühholz, Roger Gassert, Vinod Menon, Frank Scharnowski, Lars Michels, University Hospital Zurich, Zürich, Switzerland
- WTh944* Assessment of hemodynamics at 5 frames per seconds using a T-Hex Spiral-In trajectory at 7T**
Samuel Bianchi, Maria Engel, Jakob Heinze, Stefan Frässle, Klaas E. Stephan, Klaas P Pruessmann, ETHZ IBT, Zürich, Switzerland
- WTh945 The effects of time of day, age, and sex in resting-state fMRI**
Liucija Vaisvilaite, Micael Andersson, Karsten Specht, University of Bergen, Bergen, Norway
- WTh946 Training of the dorsolateral prefrontal-striatal network by real-time fMRI neurofeedback**
Franziska Weiss, Peter Kirsch, Martin Fungisai Gerchen, Central Institute of Mental Health, Mannheim, Germany
- WTh947 PRF size estimates are heavily influenced by preprocessing parameters**
David Linhardt, Maximilian Pawloff, Michael Woletz, Maria Vasileiadi, Martin Tik, Markus Ritter, Ursula Schmidt-Erfurth, Christian Windischberger, Medical University of Vienna, Vienna, Austria
- WTh948 Examination of draining vein contributions in GE- and SE-EPI BOLD across cortical depth at 7T**
Daniel Haenelt, Robert Trampel, Denis Chaimow, Martin Sereno, Nikolaus Weiskopf, Max-Planck-Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- WTh949 Laminar and columnar functional organization of human area MT using VASO at 7T**
Alessandra Pizzuti, Omer Faruk Gulban, Renzo Huber, Amaia Benitez-Andonegui, Judith Peters, Rainer Goebel, Maastricht University, Maastricht, Netherlands
- WTh950 Mindfulness-Based Cognitive Therapy Increased the Connectivity between PCC and vmPFC**
Ming Zheng, Hui Zhou, Xiaolan Song, Yuzheng Hu, Zhejiang University, Hangzhou, China
- WTh951 What Can Glioma Patients Teach Us about Language (Re)Organization in the Bilingual Brain**
Ileana Quiñones, Lucia Amoroso, Iñigo Pomposo, Santiago Gil-Robles, Manuel Carreiras, BCBL, San Sebastian-Donostia, Spain
- WTh952 Fine-grained representation of food in the brain reflects naturalistic categories**
Jason Avery, Madeline Carrington, Alexander Liu, Alex Martin, National Institute of Mental Health, Bethesda, United States
- WTh953 Neighborhood socioeconomic disadvantage and the neurobiology of uncertainty in traumatically injured**
Carissa Weis, Kate Webb, Ken Bennett, Ashley Huggins, Jacklynn Fitzgerald, Tara Miskovich, Jessica Krukowski, Terri deRoon-Cassini, Christine Larson, Medical College of Wisconsin, Milwaukee, United States
- WTh954 Why did you do this to me? Neural response of receiving an antisocial behavior**
Nicolò Trevisan, Giulia Cattarinussi, Daniele Olivo, Andrea Di Ciano, Alan Pampallona, Lucia Giudetti, Katharina Kubera, Dusan Hirjak, Robert Wolf, Fabio Sambataro, Università degli Studi di Padova, Zermeghedo, Italy
- WTh955 The role of fMRI in the interface between psychology and neuroscience: a philosophical approach**
Grace Huckins, Russell Poldrack, Stanford University, Stanford, United States
- WTh956 Dynamic Phantom for fMRI to characterize MR scanner noise**
Helmut Strey, Roeland Hancock, Alan Seifert, Lillianne Mujica-Parodi, Stony Brook University, Stony Brook, United States
- WTh957 Relationship of Hemodynamic Delay in Brain Development Among Adolescents Using Resting-state fMRI**
Hooman Rokham, Haleh Falakshahi, Zening Fu, Vince Calhoun, Georgia Institute of Technology, Atlanta, United States
- WTh958 Repeated iEEG-fMRI studies colocalize regions important for postsurgical seizure freedom in epilepsy**
William Wilson, Laura Gill, Daniel Pittman, Perry Dykens, Victoria Mosher, Paolo Federico, University of Calgary, Calgary, Canada

Diffusion MRI

- WTh959 Transcriptionally-defined neural circuits of the human brain**
Christine Charvet, Delaware State University, Dover, United States
- WTh960 Parallel Transmission for Improved Multishot Diffusion Weighted MRI at 7 Tesla**
Sydney Williams, Iulius Dragonu, Belinda Ding, Patrick Liebig, David Porter, University of Glasgow, Glasgow, United Kingdom

- WTh961 Persistent White Matter Degeneration is Associated with Cognitive Performance 3 Years after Stroke**
Natalia Egorova-Brumley, Thijs Dhollander, Wasim Khan, Mohamed Salah Khelif, Deena Ebaid, Amy Brodtmann, University of Melbourne, Melbourne, Australia
- WTh962 White Matter Microstructure Indicates Sex/Gender Differences in Developmental Trajectory**
Lindsey Thurston, Malvina Skorska, Nancy Lobaugh, Ken Zucker, Mallar Chakravarty, Meng-Chuan Lai, Doug VanderLaan, Sofia Chavez, University of Toronto Mississauga, Toronto, Canada
- WTh963 Corpus callosum microstructure is associated with neurological soft signs in adolescents**
Elena Bonke, Michaela Bonfert, Stefan Hillmann, Uta Tacke, Fan Zhang, Lauren O'Donnell, Malo Gaubert, Johanna Seitz-Holland, Tim Wiegand, Alberto De Luca, Kang Ik Cho, Stian Sandmo, Amanda Clauwaert, Caroline Seer, David Kaufmann, Elisabeth Kaufmann, Yorghos Tripodis, Jolien Gooijers, Alexander Lin, Alexander Leemans, Stephan Swinnen, Ofer Pasternak, Florian Heinen, Inga Koerte, University Hospital Munich, München, Germany
- WTh964 Altered structural network properties of the thalamus in patients with disorders of consciousness**
Yuting He, Mingtai Li, Qiulan Liang, Xiaolin Yang, Cuicui Lin, Wanchun Wu, Deng Mao, Zhuozhuo Shen, Qiuyou Xie, Ruiwang Huang, South China Normal University, Guangzhou, China
- WTh965 White Matter Microstructural Impairment in Type 2 Diabetes: A UK Biobank Study of DTI**
Abdulmajeed Alotaibi, Amjad AlTokhis, Seiun Lee, Cris Constantinescu, Rob Dineen, University of Nottingham, Nottingham, United Kingdom
- WTh966 The Impact of Chronic Pain on Fornix White Matter Microstructure**
Patcharaporn Srisaikaew, Timur Latypov, Matthew Walker, Peter Shih-Ping Hung, Wanzhang Wang, Mojgan Hodaie, Krembil Research Institute, Toronto Western Hospital, University Health Network, Toronto, Canada
- WTh967 DTI Abnormalities in White Matter in Pediatric Patients with CP prior to Selective Dorsal Rhizotomy**
Weihong Yuan, Amy Bailes, Kelly Greve, Jilda Vargus-Adams, Jonathan Dudley, Karen Harpster, Francesco Mangano, Charles Stevenson, Brad Kurowski, Alexis Mitelpunkt, Bruce Aronow, Cincinnati Children's Hospital Medical Center, Cincinnati, United States
- WTh968 Structural connectivity gradients and a dichotomy reveal topographic organization of macaque insula**
Long Cao, Yue Cui, Yuheng Lu, Kaixin Li, Linzhong Fan, Tianzi Jiang, University of Electronic Science and Technology of China, Chengdu, China
- WTh969 Altered Thalamo-Cerebellar White Matter Connectivity in Patients with Obsessive-Compulsive Disorder**
Won Lee, Hyounghyung Park, Minah Kim, Jun Soo Kwon, Seoul National University, Seoul, Korea, Republic of
- WTh970 Length-dependent spatial distribution of short fiber bundles revealed with the Chenonceau dataset**
Alexandros Popov, Bastien Herlin, Ivy Uszynski, Raïssa Yebga Hot, Maëlig Chauvel, Igor Maldonado, Christophe Destrieux, Cyril Poupon, NeuroSpin (CEA), Paris, France
- WTh971 Unveiling the contribution of the hippocampus to motor learning**
Guillermína Griffa, Florencia Jacobacci, Valeria Della Maggiore, University of Buenos Aires, Buenos Aires, Argentina
- WTh972 Neuroanatomical changes of the corticospinal tract in hemiparetic stroke patients using DTI**
Hae In Lee, Jun Soo Noh, Sung Bom Pyun, Minjae Cho, Yoonhye Na, Yu Mi Hwang, Korea University Medical Center, Seoul, Korea, Republic of
- WTh973 Relation between RTS video game learning outcomes and pre-training brain white matter structure**
Paulina Lewandowska, Nikodem Hryniewicz, Bartosz Kossowski, Natalia Jakubowska, Aneta Brzezicka, Natalia Kowalczyk-Grębska, Institute of Psychology, Jagiellonian University, Krakow, Poland, Kraków, Poland
- WTh974 Asociality in schizophrenia is linked to the abnormalities of white matter – a tractography study**
Olga Dudzińska, Jagiellonian University, Krakow, Poland
- WTh975* Distortion-and ghosting-free high-res ex vivo human brain diffusion MRI up to 50 000 s/mm²**
Gabriel Ramos Llorden, Daniel Park, Christian Mirkes, Cameron M. Cushing, Paul Weavers, Hong-Hsi Lee, Qiyuan Tian, Alina Scholz, Boris Keil, Berkin Bilgic, Anastasia Yendiki, Thomas Witzel, Susie Yi Huang, Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, United States
- WTh976 Associations of white matter microstructure in adolescents with exposures to multiple air pollutants**
Elisabeth Burnor, Hedyeh Ahmadi, Rob McConnell, Jiu-Chiuan Chen, Joel Schwartz, William Gauderman, Megan Herting, University of Southern California, Los Angeles, United States
- WTh977 White matter changes in patients with Fontan palliation for single ventricle**
Clio Gonzalez Zacarias, Soyoung Choi, Richard Leahy, John Wood, University of Southern California, Los Angeles, United States
- WTh978 Rapid, high-spatial resolution in vivo diffusion MRI with joint subsampling in k-q-, and RF-space**
Gabriel Ramos Llorden, Berkin Bilgic, Susie Huang, Martinos Center for Biomedical Imaging, Massachusetts General Hospital, Harvard Medical School, Boston, United States

EEG

- WTh1000 The role of alpha synchronization in attention training during mindfulness meditation**
Junling Gao, Eric Tsang, Hin Hung Sik, Bonnie Wu, Cheuck Wing Andrew Tang, Rui Sun, The University of Hong Kong, Hong Kong, China
- WTh979 Anticipatory attention to hemi-space affects the right hemisphere preponderance of stimulus-precursor**
Yoshimi Ohgami, Yasunori Kotani, Nobukiyo Yoshida, Hiroyuki Akai, Akira Kunitatsu, Shigeru Kiryu, Yusuke Inoue, Tokyo Institute of Technology, Meguro, Japan
- WTh980 A machine-learning framework using independent EEG components for brain-computer interfaces**
Yidan Ding, Tzyy-Ping Jung, Masaki Nakanishi, Purdue University, West Lafayette, United States
- WTh981 DeepSeg: Segmentation of Continuous EEG Data Stream for Eye Tracking Applications**
Martyna Plomecka, Lukas Wolf, Ard Kastrati, Roger Wattenhofer, Nicolas Langer, University of Zurich, Zurich, Switzerland
- WTh982 Neonatal Seizure Detection Using a Graph Convolutional Neural Network**
Khadijeh Raeisi Nafchi, Mohammad Khazaei, Pierpaolo Croce, Gabriella Tamburro, Silvia Comani, Filippo Zappasodi, Università Degli Studi Gabriele D'annunzio' di Chieti-Pescara, Pescara, Italy

- WTh983 Distinct EEG markers for intentional and unintentional mind-wandering**
Adrien Martel, Nicolas Bruno, Victoria Shevchenko, Jacobo Sitt, Antoni Valero-Cabré, ICM, Paris, France
- WTh984 Normative intracranial EEG maps epileptogenic tissues in focal epilepsy**
Nishant Sinha, John Bernabei, T. Arnold, Erin Conrad, Ian Ong, Akash Pattnaik, Joel Stein, Russell Shinohara, Timothy Lucas, Dani Bassett, Kathryn Davis, Brian Litt, University of Pennsylvania, Philadelphia, United States
- WTh985 The predictive role of early qualitative and quantitative (a)EEG on long-term outcome in EP infants**
Xiaowan Wang, Chiara Trabatti, Lauren Weeke, Jeroen Dudink, Henriette Swanenburg de Veye, Rian Eijssermans, Corine Koopman-Esseboom, Manon Benders, Maria Luisa Tataranno, UMCU, Utrecht, Netherlands
- WTh986 Brain Oscillatory Activity Associated with Emotional Sensitivity Explored using Resting EEG**
Suhye Kim, Hodam Kim, Chang-Hwan Im, Hanyang University, Seoul, Korea, Republic of
- WTh987 The Neural Asymmetry Deviations between Guitarists and Pianists**
Ruijie Xu, Junchen Zhou, Siqi Liu, Shengyi Wang, Xiaolong Guo, Jing Lu, UESTC, Chengdu, China
- WTh988 The tempo of Mozart music influences the treatment of epilepsy**
Rui Ding, Yitian Yin, Xue Yu, Ying Liu, Jing Lu, Liangfeng Feng, School of Life Science and Technology, University of Electronic Science and Technology of China, Chengdu, China
- WTh989 Neural mechanism underlying preview benefits and masked priming effects in visual word processing**
Xin Huang, Wai Leung Wong, Tin Yan Ng, Werner Sommer, Olaf Dimigen, Urs Maurer, CUHK, Hong Kong, Hong Kong
- WTh990 Closed-Loop Phase-Dependent Auditory Modulation of EEG Alpha Oscillations**
Henry Hebron, Beatrice Lugli, Radost Dimitrova, Edward Rhodes, Nir Grossman, Derk-Jan Dijk, Ines Violante, University of Surrey, Guildford, United Kingdom
- WTh991 Short-term Loving kindness meditation (LKM) modulates brain-heart connection: an EEG case study**
Goonfui Wong, Rui Sun, Yu Song, Hinhung Sik, Junling Gao, The University of Hong Kong, Hong Kong, Hong Kong
- WTh992 Decomposing the role of alpha oscillations during brain maturation**
Marius Tröndle, Tzvetan Popov, Sabine Dziemian, Nicolas Langer, University of Zurich, Zürich, Switzerland
- WTh993 Real-world functional neurophysiology: unsupervised task-driven EEG for home-based clinical research**
Alison Buick, Brian Murphy, John Dyer, Florentine Barbey, Hugh Nolan, Esther McWilliams, Cumulus Neuroscience, Belfast, United Kingdom
- WTh994 Electrophysiological Dynamics of Response Inhibition and Controlled Semantic Retrieval**
Laura Korthauer, Zachary Gemelli, Spencer Price, Elena Festa, William Heindel, Alpert Medical School of Brown University, Providence, United States
- WTh995 Impulsivity classification using EEG-based features**
Himanshu Kumar, Philippa Hüpen, Ramakrishnan Swaminathan, Ute Habel, Indian Institute of Technology Madras, Chennai, India

- WTh996 Attentional Shifts are Coupled to Phasic Arousal and 1/f Changes in Human Scalp and Intracranial EEG**
Vicente Medel, Joaquín Valdés, Martín Irani, Brice Follet, Samy Castro, Gabriel Wainstein, Gonzalo Boncompte, James Shine, Nicolas Crossley, Tomas Ossandon, University of Sydney / Pontificia Universidad Católica de Chile, Santiago, Chile
- WTh997 Altered spectral signatures and reaction to anesthesia in patients in a disorder of consciousness**
Charlotte Maschke, Catherine Duclos, George Mashour, Stefanie Blain-Moraes, Integrated Program in Neuroscience, McGill University, Montreal, Canada
- WTh998 Fractal dimension of EEG activity is linked to distinct facets of resting-state cognition**
Dominique Makowski, Zen Juen Lau, Tam Pham, An Shu Te, Annabel Chen, Nanyang Technological University, Singapore, Singapore
- WTh999 Emotional and cognitive Go-NoGo task performance and ERPs in ADHD and healthy subjects**
Saghar Vosough, Gian Candrian, Andreas Müller, Dominique Eich, Lutz Jäncke, University of Zurich, Zürich, Switzerland

MEG

- WTh1015 Obesity and brain function: an MEG study**
Vahe Poghosyan, Stephanos Ioannou, Khalid AlAmri, Sufana Almashhadi, Wjoud AlSaeed, King Fahad Medical City, Riyadh, Saudi Arabia
- WTh1016 Task-driven MEG brain fingerprints derived from functional connectomes**
Nigel Colenbier, Ekansh Sareen, Tamara Del Aguila Puntas, Alessandra Griffa, Giovanni Pellegrino, Daniele Marinazzo, Dante Mantini, Giorgio Arcara, Enrico Amico, KU Leuven, Leuven, Belgium
- WTh1017 Resting State Functional Brain Networks Are Activated In Cycles**
Mats van Es, Cameron Higgins, Chetan Gohil, Diego Vidaurre, Andrew Quinn, Mark Woolrich, University of Oxford, Oxford, United Kingdom
- WTh1018 MEG source estimation using a grouped ARD prior for complex brain activity patterns**
Kosuke Koizumi, Kai Miyazaki, Shun Nirasawa, Kazuki Akamatsu, Yoichi Miyawaki, The University of Electro-Communications, Chofu, Japan
- WTh1019 The Impact of Mild Cognitive Impairment on the Oscillatory Dynamics Serving Verbal Working Memory**
Amy Proskovec, Elizabeth Davenport, Natalie Bell, Heidi Rossetti, C. Munro Cullum, Anthony Longoria, Jarrett Berry, Joseph Maldjian, University of Texas Southwestern, Dallas, United States

MR Spectroscopy

- WTh1020 Neurometabolite correlates with personality and stress in healthy emerging adults: sex differences**
Noora Tuovinen, Nursen Yalcin-Siedentopf, Anna Welte, Christian Siedentopf, Ruth Steiger, Elke Gizewski, Alex Hofer, Medical University of Innsbruck, Innsbruck, Austria
- WTh1021 Differential associations between local neurotransmitter levels and rsFC profile in ACC subdivisions**
Meng Li, Lena Danyeli, Lejla Colic, Stefan Smesny, Gerd Wagner, Tara Chand, Xin Di, Bharat Biswal, Jürgen Reichenbach, Oliver Speck, Martin Walter, Zümrüt Sen, Jena University Hospital, Jena, Germany

WTh1022 MR Thermometry of the brain: analysis of water suppression in single voxel spectroscopy
 Marcin Sińczuk, Jacek Rogala, Nikodem Hryniewicz, Ewa Piątkowska-Janko, Piotr Bogorodzki,
 Nalecz Institute of Biocybernetics and Biomedical Engineering PAS, Warsaw, Poland

WTh1023 Investigating seasonal influences on brain GABA and glutamate levels
 Benjamin Spurny-Dworak, Murray Reed, Rene Seiger, Patricia Handschuh, Thomas Vanicek, Marie
 Spies, Wolfgang Bogner, Rupert Lanzenberger, Medical University of Vienna, Vienna, Austria

**WTh1024 The role of GABA in motor learning and expectations in adults with varying levels of
 autistic traits**
 Nazia Jassim, Simon Baron-Cohen, Owen Parsons, Catarina Rua, Rebecca Lawson, John
 Suckling, University of Cambridge, Cambridge, United Kingdom

**WTh1025 Glutamate Concentration of Dorsal Cingulate Modulates the Connectivity within the
 Salience Network**
 Tiantian Hong, Hui Zhou, Conghui Su, Xiao Zhu, Yuzheng Hu, Zhejiang University,
 Hangzhou, China

WTh1026 Increased myelination as a central mechanism in white matter neuroplasticity
 Eric Kirby, Tory Frizzell, Ryan D'Arcy, Simon Fraser University, New Westminster, Canada

WTh1027 Single-Voxel Spectroscopic Imaging
 Nicholas Farley, William Mahoney, Brandon Keehn, Uzay Emir, Purdue University, Lafayette,
 United States

WTh1028 Changes in neurochemistry across early-middle childhood
 Meaghan Perdue, Marilena DeMayo, Tiffany Bell, Elodie Boudes, Mercedes Bagshawe, Ashley
 Harris, Catherine Lebel, University of Calgary, Calgary, Canada

Multi-Modal Imaging

WTh1029 Brain inflammation in non-infected individuals during the COVID-19 pandemic
 Ludovica Brusaferrri, Zeynab Alshelh, Daniel Martins, Minhe Kim, Akila Weerasekera, Hope
 Housman, Erin Morrissey, Paulina Knight, Kelly Castro-Blanco, Daniel Albrecht, Chieh-En Tseng,
 Nicole Zürcher, Eva-Maria Rataj, Oluwaseun Akeju, Meena Makary, Nathaniel Mercaldo, Nouchine
 Hadjikhani, Mattia Veronese, Federico Turkheimer, Bruce Rosen, Jacob Hooker, Marco Loggia,
 Harvard University, Charlestown, United States

**WTh1030 Layer 7T fMRI-EEG: human alpha oscillations originate from visual cortex superficial and
 deep layers**
 Daniel Marsh, Rodika Sokoliuk, Kevin Aquino, Daisie Pakenham, Ross Wilson, Rosa Sanchez
 Panchuelo, Sebastian Coleman, Matthew Brookes, Simon Hanslmayr, Stephen Mayhew, Susan
 Francis, Karen Mullinger, Sir Peter Mansfield Imaging Centre, Nottingham, United Kingdom

**WTh1031 Altered correlation of simultaneously recorded EEG-fMRI connectomes in temporal
 lobe epilepsy**
 Jonathan Wirsich, Giannina Rita Iannotti, Ben Ridley, Laurent Sheybani, Elhum Shamshiri, Frédéric
 Grouiller, François Lazeyras, Fabrice Bartolomei, Margitta Seeck, Jean-Philippe Ranjeva, Maxime
 Guye, Serge Vulliémot, University of Geneva, Geneva, Switzerland

WTh1032* Longitudinal and simultaneous whole brain fMRI and cortex wide Ca²⁺ imaging in awake mice
 Francesca Mandino, Xilin Shen, David O'Connor, Bandhan Mukherjee, Kristin DeLuca, Ashley
 Owens, An Qu, John Onofrey, Xenophon Papademetris, Stephen Strittmatter, Evelyn Lake, Yale
 University, New Haven, United States

WTh1033 Volumetric and structural connectivity abnormalities co-localise in TLE
 Jonathan Horsley, Gabrielle Schroeder, Tom Nye, Rhys Thomas, Jane de Tisi, Sjoerd Vos, Gavin
 Winston, John Duncan, Yujiang Wang, Peter Taylor, Newcastle University, Newcastle-upon-Tyne,
 United Kingdom

WTh1034 EEG source imaging technique to investigate sleep oscillations for simultaneous EEG-fMRI
 Makoto Uji, Aude Jegou, Nathan Cross, Florence Pomares, Aurore Perrault, Alex Nguyen, Umit
 Aydin, Kangjoo Lee, Chifaou Abdallah, Birgit Frauscher, Jean-Marc Lina, Thien Thanh Dang-Vu,
 Christophe Grova, Concordia University, Montreal, Canada

**WTh1035 Cerebral Perfusion Underpinnings of Functional Connectivity Networks in Temporal
 Lobe Epilepsy**
 Alexander Ngo, Sara Larivière, Jessica Royer, Raúl Rodríguez-Cruces, Reinder Vos de Wael,
 Shahin Tavakol, Hans Auer, Qionglin Li, Jack Lam, Andrea Bernasconi, Neda Bernasconi, Birgit
 Frauscher, Boris Bernhardt, McGill University, Montreal, Canada

**WTh1036 Predicting Accumulation of Tau Plaques in Brain with Multivariate MRI
 Morphometry Measurements**
 Jianfeng Wu, Wenhui Zhu, Yi Su, Jie Gui, Natasha Lepore, Eric Reiman, Richard Caselli, Paul
 Thompson, Kewei Chen, Yalin Wang, Arizona State University, Tempe, United States

WTh1037 Connectome Spectrum Electromagnetic Tomography
 Joan Rué-Queralt, Sebastien Tourbier, Yasser Aleman, David Pascucci, Jerome Yerly, Katharina
 Glomb, Gijs Plomp, Patric Hagmann, University Hospital Lausanne, Lausanne, Switzerland

**WTh1038 Mouse rsfMRI connectome fingerprinting recovers subject and genetically encoded Ca²⁺
 indicator loci**
 Francesca Mandino, Corey Horien, Xilin Shen, David O'Connor, Xinxin Ge, Peter Herman, An
 Qu, John Onofrey, Michael Crair, Xenophon Papademetris, R. Todd Constable, Evelyn Lake, Yale
 University, New Haven, United States

WTh1039 Pre-acquisition checklists for neuroimaging protocol compliance and quality assurance (QA)
 Pradeep Reddy Raamana, University of Pittsburgh, Pittsburgh, United States

**WTh1040 Direct linkage detection with Multimodal IVA fusion: uncovering joint biomarkers in
 large studies**
 Rogers Silva, Eswar Damaraju, Xinhui Li, Tulay Adali, Vince Calhoun, TReNDS Center, Atlanta,
 United States

**WTh1041 Characterizing the genetic bases of multimodal brain imaging in late childhood
 and adolescence**
 Sara Fernandez-Cabello, Dag Alnæs, Dennis van der Meer, Linn Norbom, Irene Voldsbekk, Lars
 Westlye, Oslo University Hospital, Oslo, Norway

WTh1042 Mapping local and remote effects of TMS over left posterior superior temporal gyrus
 Maria Vasileiadi, Anna-Lisa Schuler, Martin Tik, David Linhardt, Michael Woletz, Christian
 Windischberger, Medical University of Vienna, Vienna, Austria

**WTh1043 BOLD signaling differs based on a stimulant drug's brain uptake speed: a simultaneous
 PET-fMRI study**
 Peter Manza, Dardo Tomasi, Ehsan Shokri Kojori, Gene-Jack Wang, Nora Volkow, NIH,
 Washington, United States

WTh1044 The Effect of Intracranial Electrode Susceptibility on 3T fMRI

Victoria Mosher, William Wilson, Shin-Hyung (Vella) Kim, Tahereh Rashnavadi, Daniel Pittman, Bradley Goodyear, Paolo Federico, University of Calgary, Calgary, Canada

WTh1045 Brain Age: Is the prediction accuracy goal?

Niousha Kolagar, Sina Mansour L., Nandita Vijayakumar, Timothy Silk, Sarah Whittle, Deakin University, Melbourne, Australia

NIRS

WTh1046 Decoding Movie Identities from Human Brain Hemodynamics with High-Density Diffuse Optical Tomography

Zachary Markow, Kalyan Tripathy, Jason Trobaugh, Alexandra Svoboda, Mariel Schroeder, Sean Rafferty, Edward Richter, Adam Eggebrecht, Mark Anastasio, Joseph Culver, Washington University in St. Louis, St. Louis, United States

WTh1047 Functional human brain mapping with whole-head ultra-high density diffuse optical tomography

Morgan Fogarty, Sean Rafferty, Anthony O'Sullivan, Calamity Svoboda, Zachary Markow, Edward Richter, Tessa George, Kelsey King, Dana Wilhelm, Kalyan Tripathy, Jason Trobaugh, Adam Eggebrecht, Joseph Culver, Washington Univ School of Medicine in St Louis, St. Louis, United States

WTh1048 Acute Effects of Green Tea Extract on the Hemodynamics of the Prefrontal Cortex in Healthy Adults

Jihyun Cha, JongKwan Choi, Gusang Kwon, Hyung-Su Kim, Si-Young Cho, Jae-Myoung Kim, OBELAB, Inc., Seoul, Korea, Republic of

WTh1049 Resting State Connectivity in Acute vs. Subacute Left Hemisphere Stroke: An fNIRS Pilot Study

Erin Meier, Hana Kim, Lisa Bunker, Argye Hillis, Northeastern University, Boston, United States

WTh1050 The viability of multi-mode fiber-based speckle contrast optical tomography for human neuroimaging

Chen-Hao Lin, Inema Orukari, Lisa Kobayashi Frisk, Manish Verma, Sumana Chetia, Adam Eggebrecht, Turgut Durduran, Joseph Culver, Jason Trobaugh, Washington University In St. Louis, Saint Louis, United States

WTh1051 Implementing a new platform to test empathy in toddlers with wearable fNIRS in freely moving set-up

Chiara Bulgarelli, Paola Pinti, Nadine Aburumman, Louisa Gossé, Leslie Tucker, Tim Smith, Denis Mareschal, Ilias Tachtsidis, Clare Elwell, Emily Jones, Birkbeck College, London, United Kingdom

WTh1052 Multimodal fMRI-fNIRS integration: surface-based approach to assess motor function

Augusto Bonilauri, Alice Pirastru, Francesca Sangiuliano Intra, Sara Isernia, Sonia Di Tella, Marta Cazzoli, Giuseppe Baselli, Valeria Blasi, Francesca Baglio, Politecnico di Milano, Modena, Italy

WTh1053 Validation of the Medelopt fNIRS system in Whole-Body Movement: Motion Capture and Short-Channel

Emeline Mullier, Ségolène M. R. Guérin, Jérémy Larrouquère, Yvonne N. Delevoye-Turrell, Marion A. Vincent, Seenel Imaging, Tourcoing, France

WTh1054 Wearable High-Density Diffuse Optical Tomography (WHD-DOT) for Naturalistic Neuroimaging

Alvin Agato, Hannah Devore, Michelle Hedlund, Anthony O'Sullivan, William Hamic, Calamity Svoboda, Abigail Magee, Broc Burke, Adam Eggebrecht, Edward Richter, Joseph Culver, Washington University, Saint Louis, United States

WTh1055 Effect of Modulation Frequency on Image Quality in High-density Diffuse Optical Tomography in Infant

Weihao Fan, Adam Eggebrecht, Washington University in St. Louis, St. Louis, United States

WTh1056 Comparison of methods for correcting temporal autocorrelation in resting-state fNIRS data

Pradyumna Lanka, Heather Bortfeld, Theodore Huppert, University of California, Merced, Merced, United States

WTh1057* Within-subject correspondence of simultaneously collected fMRI and full-head fNIRS signals

Sara Sanchez-Alonso, Rebecca Canale, Isabel Nichoson, Richard Aslin, Haskins Laboratories, New Haven, United States

Non-BOLD fMRI

WTh1058* High Temporo-Spatial Resolution VASO Reveals Differential Laminar Reactivity to Short Stimuli at 7T

Sebastian Dresbach, Renzo Huber, Rainer Goebel, Maastricht University, Maastricht, Netherlands

WTh1059 Topographically specific cortical thickness changes induced by visual stimulation

Natalia Zaretskaya, Erik Fink, Ana Arsenovic, Anja Ischebeck, Institute of Psychology, University of Graz, Graz, Austria

WTh1060 Mapping frequency preference in the auditory cortex using CBV-sensitive layer-fMRI

Lonike Faes, Renzo Huber, Federico De Martino, Maastricht University, Maastricht, Netherlands

WTh1061 Perfusion imaging discriminates facial pain from somatosensation following local anaesthetic washout

Sonia Medina, Elena Makovac, Jade Jackson, Amandine Beke, Tara Renton, Tatum Cummins, Steve Williams, Stephen McMahon, Matthew Howard, King's College London, London, United Kingdom

WTh1062 Bloch-McConnell Simulation for Arterial Blood Contrast @ 3T and 7T

Shahrokh Abbasi-Rad, David Norris, Donders Institute, Nijmegen, Netherlands

WTh1063 The Global Signal in CBV-Weighted rs-fMRI of the Rat

Nmachi Anumba, Corrie Smith, Wen-Ju Pan, Shella Keilholz, Emory University/Georgia Institute of Technology, Atlanta, United States

Polarized light imaging (PLI)

WTh1064* Fusion of 3D histology and polarized light imaging via hippocampal unfolding in the human brain

Jordan DeKraker, Sascha Muenzing, Nicola Palomero-Gallagher, Katrin Amunts, Alan Evans, Markus Axer, Boris Bernhardt, McGill University, Montreal, Canada

Imaging Methods Other

WTh1001* Ginkgo: a novel modular and Open Source MRI pulse sequence development framework

Anais Artiges, Franck Mauconduit, Ivy Uszynski, Baptiste Mulot, Elodie Chaillou, Philippe Ciuciu, Cyril Poupon, CEA/NeuroSpin, Gif-sur-Yvette, France

WTh1002 Evaluation of Cerebral Blood Flow and BBB Water Exchange in an Aged African American Cohort

Brandon Ojogho, Farzan Abdolahi, Xingfeng Shao, Samantha Ma, Kay Jann, Xuejuan Jiang, Danny Wang, USC, Los Angeles, United States

- WTh1003 NIH Funded NITRC's Triad of Services: Software, Data, Compute**
Nina Preuss, David Kennedy, Christian Haselgrove, Albert Crowley, Abby Paulson, Green Cove Springs, United States
- WTh1004 SEEG source analysis of intracranial stimulation with realistic head modeling: A validation study**
Takfarinas Medani, John Mosher, Anand Joshi, Kenneth Taylor, Dileep Nair, Carsten Wolters, Richard Leahy, Los Angeles, CA, Los Angeles, United States
- WTh1005 Machine Learning for Interpretation of Brain Behavior Representation and BigBrain Super-resolution**
Mingli Zhang, Fan Zhang, Paule-J. Toussaint, Claude Lepage, Dongsheng Xiao, Alan Evans, Montreal Neurological Institute, McGill University, Montréal, Canada
- WTh1006 NiiVue: Advanced web-based neuroimaging visualization for cloud computing ecosystems**
Chris Rorden, Taylor Hanayik, Christopher Drake, Roger Newman-Norlund, University of South Carolina, Columbia, United States
- WTh1007 It's not where you started but where you can go: Focal Cortical Dysplasia Impacts Language Network**
Manu Krishnamurthy, Nathan Cohen, Andrew DeMarco, Chima Oluigbo, William Gaillard, Madison Berl, Leigh Sepeta, Xiaozhen You, Children's Research Institute, Children's National Medical Center, Washington, United States
- WTh1008 Ictal SPECT-ASL (ISA): A novel ictal SPECT analysis method**
Felix Bitzer, Florian Gärtner, Martin Schidlowski, Matthias Schmitz, Freya Schulte, Bastian David, Markus Essler, Rainer Surges, Theodor Rüber, University Hospital Bonn, Bonn, Germany
- WTh1009 The diagnostic value of ictal SPECT – a monocenter retrospective study**
Freya Schulte, Felix Bitzer, Florian Gärtner, Tobias Bauer, Randi von Wrede, Tobias Baumgartner, Attila Rácz, Markus Essler, Rainer Surges, Theodor Rüber, Universitätsklinikum Bonn, Bonn, Germany
- WTh1010 Investigating passive B0 shimming for spinal cord imaging at 7T**
Merve Kaptan, Nicolas Gross-Weege, S. Johanna Vannesjo, Robert Trampel, Harald Möller, Nikolaus Weiskopf, Falk Eippert, MPI for Human Cognitive and Brain Sciences, Leipzig, Germany
- WTh1011 Towards low-field network neuroimaging**
František Váša, Sean Deoni, Steven Williams, Rosalyn Moran, King's College London, London, United Kingdom
- WTh1012 Comparison of ihMTR and ihMTsat in MS patients using a 3D high-resolution low RF duty-cycle sequence**
Fanny Munsch, Gopal Varma, Shahamat Tauhid, Manuel Taso, Olivier Girard, Guillaume Duhamel, Rohit Bakshi, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, United States
- WTh1013 Viscoelastic Changes in Deep Gray Matter Relate to Head Impact Exposure in Ice Hockey**
Melissa DiFabio, Daniel Smith, Thomas Buckley, Katherine Breedlove, Curtis Johnson, Ludwig-Maximilians-Universität Munich, Munich, Germany
- WTh1014 Volumetric Myelin Mapping in Alzheimer's Disease Using a 3D STAIR-UTE MRI Sequence**
Hyungseok Jang, Jonathan Wong, Qingbo Tang, Eric Chang, Yajun Ma, Jiang Du, University of California, San Diego, La Jolla, United States

PERCEPTION, ATTENTION AND MOTOR BEHAVIOR

Attention: Auditory/Tactile/Motor

- MT930 Attentional modulation of auditory sensory activity during selective listening to continuous speech**
Sebastian Puschmann, Mor Regev, Christiane Thiel, Robert Zatorre, Carl von Ossietzky University of Oldenburg, Oldenburg, Germany

Attention: Visual

- MT931* Intracortical recordings reveal cortical gradients of human exogenous attention**
Tal Seidel Malkinson, Dimitri Bayle, Alexia Bourgeois, Katia Lehongre, Vincent Navarro, Claude Adam, virginie LAMBRECQ, Daniel Margulies, Jacobo Sitt, Paolo Bartolomeo, Paris Brain Institute, Paris, France
- MT932 Attention related changes in aperiodic neural activity with time-on task**
Lin-Yuan Tseng, Niall Duncan, Taipei Medical University, Taipei, Taiwan
- MT933 Modulating Lateral Attention Biases (Pseudoneglect) Using Alpha Neurofeedback**
Marine Keime, Gregor Thut, Gemma Learmonth, University of Glasgow, Glasgow, United Kingdom
- MT934 Salient stimuli-driven distractors capture attention without engagement: A cross-modal EEG study**
Shao-Yang Tsai, Thomas Töllner, Hermann Müller, Zhuanghua Shi, General and experimental psychology, LMU Munich, München, Germany
- MT935* The superior colliculus & its role in visual attention: isolated SC lesion leads to neglect**
Brigitte Kaufmann, Thomas Nyffeler, Paolo Bartolomeo, Dario Cazzoli, PICNIC – Paris Brain Institute, Paris, France
- MT936 Variability in cognitive task performance, network segregation and externalizing psychopathology**
Sarah Chang, Carrie Bearden, UCLA, Santa Monica, United States
- MT937 Posner cueing effects reflect attention, rather than expectation, mechanisms**
Sricharan Sunder, Kavya Rajendran, Sridharan Devarajan, Indian Institute of Science, Bangalore, India
- MT938 Attention Networks in the Human Brain**
Sebastian Markett, Philippe Jawinski, Humboldt Universität zu Berlin, Berlin, Germany
- MT939 Target facilitation in the absence of distractor suppression in visual search**
Norman Forschack, Christopher Gundlach, Steven Hillyard, Matthias Müller, Wilhelm-Wundt-Institut für Psychologie, Leipzig, Germany
- MT940 Effect of atypical language lateralization on the hemispheric dominance of visuospatial processing**
Tatiana Davydova, Cristina Cano Melle, Anastasia Cherednichenko, Lidón Marin-Marin, Esteban Villar-Rodríguez, César Ávila, Universitat Jaume I, Castellón de la Plana, Spain
- MT941 Stimulus Invariant Attentional Responses In The Human Temporal Cortex**
Francesco Molla, Amar Bogadhi, Marc Himmelbach, University of Tübingen, Tübingen, Germany

- MT942 Frontal Eye Field Involvement in Temporal Fluctuations of Sustaining Visual Attention: A TMS Study**
Agnieszka Zuberer, Igor Izyurov, Travis Evans, Marina Krylova, Michael Esterman, University Tübingen, Tuebingen, Germany
- MT943 Sensitivity vs Criterion mechanisms in Attentional Blink**
Swagata Halder, Sridharan Devarajan, Indian Institute of Science, Bengaluru, India
- MT944 Noradrenergic modulation of network topology mediates visual perception under perceptual ambiguity**
Gabriel Wainstein, Kaylena Ehgoetz Martens, Eli Müller, Brandon Munn, Vicente Medel, Britt Anderson, Elizabeth Stöttinger, James Danckert, James Shine, The University of Sydney, Sydney, Australia
- MT945 Neural Response to Flavored E-Cigarette Packages Predicts Cigarette Smoking among Non-Smoking Vapers**
Jiaying Liu, Joshua McMains, Jessica Fabbricatore, Erin Jones, Allison Worsdale, Assaf Oshri, Lawrence Sweet, University of Georgia, Athens, United States
- MT946* Decoding the neural correlates of sustained attention using MEG and supervised learning**
Clara El Khantour, Yann Harel, Arthur Dehgan, Karim Jerbi, Université de Montréal, Montréal, Canada

Chemical Senses: Olfaction, Taste

- MT947 Localizing the human olfactory cortex: a meta-analytic approach**
Alyssa Torske, Kathrin Koch, Simon Eickhoff, Jessica Freiherr, Klinikum rechts der Isar der TUM, Munich, Germany
- MT948 High-resolution functional MRI in the human olfactory bulb at 7T**
Xinyuan Miao, Adrian Paez, Suraj Rajan, Di Cao, Dapeng Liu, Alex Pantelyat, Liana Rosenthal, Peter van Zijl, Susan Bassett, David Yousem, Vidyulata Kamath, Jun Hua, Johns Hopkins University School of Medicine, Baltimore, United States
- MT949* Automatically segmented olfactory bulb volume as a quantitative proxy of olfactory function**
Konstantinos Melas, Weiyi Zeng, Santiago Estrada, N. Ahmad Aziz, Monique Breteler, German Center for Neurodegenerative Diseases (DZNE), Bonn, Germany
- MT950 Functional imaging of orbitofrontal primary olfactory regions**
Sandro Romanzetti, Rik Sijben, Christoph Ritter, Franziska Müschenich, Thorsten Sichter, Kathrin Reetz, Jessica Freiherr, Rea Rodriguez-Raecke, RWTH Aachen University hospital, Aachen, Germany
- MT951 The olfactory networks elicited by sniffing in patients with congenital anosmia**
Yun-Ting Chao, National Yang Ming Chiao Tung University, Taipei, Taiwan

Consciousness and Awareness

- MT952 Listening to experience: Improving neuroimaging with micro-phenomenology**
Chris Allen, Carl Hodgetts, Katrin Heimann, Cardiff University, CARDIFF, United Kingdom
- MT953 Motor awareness: a model based on neurological syndromes**
Valentina Pacella, Valentina Moro, Groupe d'Imagerie Neurofonctionnelle, Institut des Maladies Neurodégénératives-UMR 5293, CNRS, CEA U, Bordeaux, France

- MT954 Perturbation or Function? Intrinsic brain dynamics in the Default Mode Network predict involuntary**
Dian Lu, Shruti Naik, David Menon, Emmanuel Stamatakis, University of Cambridge, Cambridge, United Kingdom
- MT955 The Effects of Anaesthesia on Receptor-Enriched Brain Connectivity During Naturalistic Stimulation**
Timothy Lawn, Daniel Martins, Steve Williams, Matthew Howard, Ottavia Dipasquale, King's College London, London, United Kingdom
- MT956 Multidimensional functional landscape of the brain reflects state of consciousness**
Zirui Huang, George Mashour, Anthony Hudetz, University of Michigan Medical School, Ann Arbor, United States
- MT957 Probing high-level cognitive processing of frontal lobes using fNIRS and naturalistic stimuli**
Tamar Mizrahi, Noam Somech, Vadim Axelrod, Bar-Ilan University, Ramat Gan, Israel
- MT958 Supraliminal and Subliminal Stimuli Induced Changes in the Response Inhibition Network**
Reza Mazloum, Jeanette Popovova, Gianluca Macaudo, Philipp Stämpfli, Sascha Frühholz, Patrik Vuilleumier, Frank Scharnowski, Vinod Menon, Roger Gassert, Lars Michels, ETH Zurich, Zurich, Switzerland
- MT959 Sedation: A probe to explore the neural mechanisms of consciousness**
olympia karampela, Aurelie Fontan, Lenita Lindgren, Tiziana Pedale, Camilla Brorsson, Fredrik Bergström, Johan Eriksson, Integrative Medical Biology Umea University, Sweden, umeå 90751, Sweden
- MT960 Neural and subjective effects of syncope-episodes**
Vanessa Charland-Verville, Charlotte Martial, Olivia Gosseries, Héléna Cassol, Didier Ledoux, Steven Laureys, Andrea Piarulli, University of Liège, Liège, Belgium
- MT961 Individual level analyses to detect (dis)connectivity pattern in disorders of consciousness**
Maria Marcella Lagana, Francesca Comanducci, Laura Pelizzari, Marta Cazzoli, Susanna Lipari, Giuseppe Baselli, Angela Comanducci, Marcello Massimini, Jorge Navarro Solano, Francesca Baglio, IRCCS Fondazione Don Carlo Gnocchi ONLUS, Milan, Italy
- MT962 Following the path to propofol-induced unconsciousness with EEG microstates**
Fiorenzo Artoni, Julien Maillard, Britz Juliane, Martin Seeber, Christopher Lysakowski, Lucie Brechet, Martin Tramer, Christoph Michel, University of Geneva, Geneva, Switzerland
- MT963 The development of functional small-world architecture in infancy**
Huiqing Hu, Peter Coppola, Emmanuel Stamatakis, Lorina Naci, Trinity College Dublin, Dublin, Ireland
- MT964 Revealing the relationship between brain structure and consciousness through multi-disease approach**
Ching-Ying Huang, Ya-Fang Chen, Pin-Yu Chen, Tun Jao, National Taiwan University, Taipei, Taiwan
- MT965 Ongoing thought at rest: interaction between neuromodulation and dynamic states**
Ting Xu, Hao-Ting Wang, Bronte Mckeown, Daniel Gutierrez-Barragan, Bo-yong Park, Robert Leech, Elizabeth Jefferies, Daniel Margulies, Alessandro Gozzi, Michael Milham, Jonathan Smallwood, Child Mind Institute, New York, United States

MT966 Functional dynamic change across awake and anesthetized states in a non-human primate model
Julian Ramirez, Daniel Gutierrez-Barragan, Hecheng Jin, Jae Wook Cho, Brian Russ, Arnaud Falchier, Gary Linn, Charles Schroeder, Alessandro Gozzi, Michael Milham, Ting Xu, Child Mind Institute, New York, United States

Perception: Auditory/ Vestibular

MT969 Invariant Structural and Functional Brain Regions Associated with Tinnitus: A Meta-Analysis
John Moring, Fatima Husain, Jodie Gray, Alan Peterson, Patricia Resick, Crystal Franklin, Amy Garrett, Peter T. Fox, The University of Texas Health Science Center at San Antonio, San Antonio, United States

MT970 Restored Auditory Contralateral Dominance to Sound Localization in Chronic Unilateral Hearing Loss
Lee seul Shim, Ja Hee Kim, Gibbeum Kim, Hyo-Jeong Lee, Hallym University, Anyang, Korea, Republic of

MT971 Gamma Activation and Alpha Suppression in Human Auditory Cortex during a Speech Classification Task
Kirill Nourski, Mitchell Steinschneider, Ariane Rhone, Christopher Kovach, Hiroto Kawasaki, Matthew Howard, The University of Iowa, Iowa City, United States

MT972 Structural changes in Noise-Induced Tinnitus: A Connectome-based Study
Chloé Jaroszynski, Agnès Job, Arnaud Attyé, Chantal Delon-Martin, Grenoble Institute Neurosciences, Grenoble, France

MT973 The Influence of Auditory White Noise on Cortical Excitability and Connectivity
Mattia Pinardi, Anna-Lisa Schuler, Giovanni Pellegrino, Giovanni Di Pino, Campus Bio-Medico University, Rome, Italy

MT974 Entrained neural oscillations facilitate perception differentially in the two cerebral hemispheres
Christian Kell, Diljit Singh Kajal, Johannes Gehrig, Goethe University, Frankfurt am Main, Germany

Perception: Multisensory and Crossmodal

MT975 Functional relevance of the extrastriate body area for visual and haptic body perception
Hicret Atılgan, Janice Koi, Ern Wong, Satoshi Tanaka, Ilkka Laakso, Marco Soldati, Noora Matilainen, Annabel Chen, Ryo Kitada, Nanyang Technological University, Singapore, Singapore

MT976 Audiovisual Speech Intelligibility Drives Multivoxel Response Patterns in Superior Temporal Cortex
Yue Zhang, Johannes Rennig, John Magnotti, Michael Beauchamp, University of Pennsylvania, Philadelphia, United States

MT977 Do brain oscillations limit the rates of perceptual experience?
Chris Allen, Hellen Jing Yuan, Krish Singh, Christoph Teufel, Cardiff University, CARDIFF, United Kingdom

MT978 Multisensory Integration in the human brain: An ALE Meta-analysis
Sebastian Scheliga, Thilo Kellermann, Angelika Lampert, Roman Rolke, Marc Spehr, Ute Habel, RWTH Aachen University Hospital, Aachen, Germany

MT979 Neural signature for causal inference of body ownership in the posterior parietal cortex
Marie Chancel, Henrik Ehrsson, Karolinska Institute, Stockholm, Sweden

MT980 The effect of various doses of real and visual acupuncture on brain activities: an fMRI study
Da-Eun Yoon, Seoyoung Lee, Jundong Kim, Kyuseok Kim, Hi-Joon Park, In-Seon Lee, Younbyoung Chae, Kyung Hee University, Seoul, Korea, Republic of

MT981 A synergistic neural representation of active multi-sensing enhances perceptual decision-making
Ioannis Delis, Robin Ince, Paul Sajda, Qi Wang, University of Leeds, Leeds, United Kingdom

MT982 Sensorimotor cortical activity is associated with whole-body motion perceptual ability
Jasmine Mirdamadi, Scott Boebinger, Kennedy Kerr, Lena Ting, Michael Borich, Emory University, Decatur, United States

Perception: Pain and Visceral

MT1000 Assessment of the analgesic effects of nitrous oxide through brain functional connectivity
Tony Larkin, Eric Ichesco, Ishtiaq Mawla, Vijay Tarnal, Phillip Vlisides, Ellen Janke, Amy McKinney, Steven Harte, Paul Picton, George Mashour, Richard Harris, University of Michigan, Ann Arbor, United States

MT1001 Insomnia moderates the impact of chronic pain in knee osteoarthritis (KOA)
Soamy Montesino-Goicolea, Pedro Valdes-Hernandez, Chavier Laffitte Nodarse, Julio Peraza, Roger Fillingim, Yenisel Cruz-Almeida, University of Florida, Gainesville, United States

MT983 Morphometric similarity networks discriminate patients with lumbar disc herniation from healthy
Lejian Huang, Lili Yang, Andrew Vigotsky, Bo Wu, Linyu Fan, Zhihan Yan, Vania Apkarian, Northwestern University, Platteville, United States

MT984 Higher Modularity in Brain Networks Maps to Clinical Features of Chronic Pain
Jennika Veinot, Javeria Ali Hashmi, Dalhousie University, Halifax, Canada

MT985 Brain Gray Matter Changes Following Multimodal Therapy vs Occlusal Splint in Chronic Orofacial Pain
Julia Lam, Johan Mårtensson, Hans Westergren, Peter Svensson, Pia Sundgren, Per Alstergren, Malmö University, Malmö, Sweden

MT986 Clinical fMRI of photophobia in individuals with chronic ocular pain: provisional analysis
Anjalee Choudhury, Anat Galor, Divy Mehra, Elizabeth Felix, Eric Moulton, Miami Veterans Administration Medical Center, Miami, United States

MT987 Classical TN and Multiple Sclerosis-TN Show Different Early Post-op Nerve Diffusivity Changes
Hayden Danyluk, Tejas Sankar, University of Alberta, Edmonton, Canada

MT988 Trigeminal Nerve Diffusivity is Associated with Migraine Features in Patients with Episodic Migraine
Sarasa Tohyama, Michael Datko, Ludovica Brusaferrì, Mackenzie Hyman, Cassandra Round, Hope Housman, Vi Le, Ronald Garcia, Randy Gollub, Robert Edwards, Bruce Rosen, Nouchine Hadjikhani, Hsinlin Cheng, Zev Schuman-Olivier, Marco Loggia, Vitaly Napadow, Spaulding Rehabilitation Network, Harvard Medical School, Boston, United States

MT989 Altered Hypothalamic Structure In Trigeminal Neuralgia
Alborz Noorani, Peter Shih-Ping Hung, Mojgan Hodaie, University of Toronto, Toronto, Canada

- MT990** **Machine-learning defines and characterizes the grades of trigeminal neuralgia**
Timur Latypov, Rose Yakubov, Peter Hung, Wanzhang Wang, Matthew Walker, Pascale Tsai, Marina Tawfik, Frank Rudzicz, Mojgan Hodaie, Krembil Research Institute, Toronto Western Hospital, University Health Network, Toronto, Canada
- MT991** **An Integrated Neurogenetic-Behavioral Signature Predicts Widespread Pain Development in Children**
Ravi Bhatt, Alyssa Zhu, Tasfiya Islam, Elnaz Nourollahimoghadam, Emeran Mayer, Neda Jahanshad, University of Southern California, Los Angeles, United States
- MT992** **The formation of expectations and their influence on pain and visual perception**
Rotem Botvinik-Nezer, Stephan Geuter, Martin Lindquist, Tor Wager, Dartmouth College, Hanover, United States
- MT993*** **BOLD responses in 7T fMRI of the human spinal cord on a single-subject level**
Ulrike Horn, Nicolas Gross-Weege, Johanna Vannesjo, Merve Kaptan, Alice Dabbagh, Robert Trampel, Harald Möller, Nikolaus Weiskopf, Falk Eippert, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT994** **Reliability of task-based fMRI in the dorsal horn of the human spinal cord**
Alice Dabbagh, Merve Kaptan, Ulrike Horn, Toralf Mildner, Roland Mueller, Joeran Lepsien, Nikolaus Weiskopf, Falk Eippert, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT995** **Hemispheric divergence of interoceptive processing across psychiatric disorders**
Emily Adamic, Adam Teed, Jason Avery, Sahib Khalsa, Laureate Institute for Brain Research, University of Tulsa, Tulsa, United States
- MT996** **Functional connectivity changes after education and exercise therapy in patients with chronic pain**
Iris Coppieters, Jo Nijs, Mira Meeus, Lieven Danneels, Barbara Cagnie, Jeroen Kregel, Robby De Pauw, Inge Timmers, Lukas Van Oudenhove, Anneleen Malfliet, Vrije Universiteit Brussel, Brussels, Belgium
- MT997** **Migraine frequency is inversely correlated with insula response to an interoceptive attention task**
Michael Datko, Zev Schuman-Olivier, Hope Housman, Ludovica Brusaferrri, Sarasa Tohyama, Kassandra Round, Vi Le, Mackenzie Hyman, Hsinlin Cheng, Ronald Garcia, Randy Gollub, Robert Edwards, Bruce Rosen, Nouchine Hadjikhani, Marco Loggia, Vitaly Napadow, Harvard Medical School, Cambridge, United States
- MT998** **Neural and sociocultural mediators of gender differences in pain**
Suhwan Gim, Maryam Amini, Stephan Geuter, Tor Wager, Elizabeth Losin, Sungkyunkwan University, Suwon-si, Korea, Republic of
- MT999** **Discrimination between pain and touch using network-based dynamic functional connectivity patterns**
Yingchao Song, Meng Liang, Tianjin Medical University, Tianjin, China

Perception: Tactile/Somatosensory

- MT1002** **Interoceptive Awareness: Connectivity Differences between Mindful Breathing and Body Scan**
Changwei Wu, Shiao-Fei Guu, Yu-Ting Cheng, Hei-Yin Ng, Chun-Hsiang Chuang, Yi-Ping Chao, Chih-Mao Huang, Taipei Medical University, Taipei, Taiwan

- MT1003** **Sensory prediction and repetition suppression in the premature neonate brain**
Victoria Dumont, Martina Giovannella, Daniel Zuba, Régis Clouard, Turgut Durduran, Bernard Guillois, Nadège Roche-Labarbe, Normandie Univ, UNICAEN, INSERM, COMETE, caen, France
- MT1004** **Spatiotemporal Tactile Motion Encoding in the Human Primary Somatosensory Cortex**
Anda De Witte, Mariana Branco Pedroso, Mariska Vansteensel, Micah Murray, Nick Ramsey, Anna Gaglianese, Motor Control and Neuroplasticity Research group, Department of Movement Sciences, KU Leuven, Leuven, Belgium
- MT1005** **Illusory Body Ownership Affects the Cortical Response to Vicarious Somatosensation**
Gustavo Pamplona, Julio Duenas Salgado, Philipp Stämpfli, Erich Seifritz, Roger Gassert, Silvio Ionta, University of Lausanne, Zurich, Switzerland
- MT1006** **Neural representations of imagination of pain and itch in atopic dermatitis patients : an fMRI study**
In-Seon Lee, Da-Eun Yoon, Seoyoung Lee, Jundong Kim, Kyuseok Kim, Younbyoung Chae, Hi-Joon Park, Kyung Hee University, Seoul, Korea, Republic of
- MT1007** **Reliability of fMRI-based Digit Mappings in Primary Somatosensory Cortex for Clinical Settings**
Till Steinbach, Judith Eck, Inge Timmers, Rainer Goebel, Renate Schweizer, Amanda Kaas †, Maastricht University, Maastricht, Netherlands
- MT1008** **Somatosensory prediction in preschool children: a preliminary ERP study**
Anne-Lise Marais, Marie Anquetil, Victoria Dumont, Nadège Roche-Labarbe, University of Caen Normandy, Caen, France
- MT1009** **Cortical response variability is driven by local excitability changes with somatotopic organization**
Tilman Stephani, Birgit Nierula, Arno Villringer, Falk Eippert, Vadim Nikulin, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany
- MT1010** **Dynamic Causal Modeling of Neural Responses to an Orofacial Pneumotactile Velocity Array**
Yingying Wang, Rebecca Custead, Hyuntaek Oh, Steven Barlow, University of Nebraska-Lincoln, Lincoln, United States

Perception: Visual

- MT1011** **Neural encoding and interpretation of high-level visual cortices using image caption features**
Kai Qiao, Jian Chen, Chi Zhang, Linyuan Wang, Li Tong, Bin Yan, Information Engineering University, Zhengzhou, China
- MT1012** **Both mOTS-words and pOTS-words prefer emoji stimuli over text stimuli during a reading task**
Alexia Dalski, Holly Kular, Julia Jorgensen, Kalanit Grill-Spector, Mareike Grotheer, Phillips-University Marburg, Marburg, Germany
- MT1013** **Prestimulus Neural Correlates of Subjective Gestalt Perception**
Marilena Wilding, Christof Körner, Anja Ischebeck, Natalia Zaretskaya, Karl-Franzens-University of Graz, Graz, Austria
- MT1014** **Figure-ground segmentation by horizontal and vertical disparity discontinuities in visual cortex**
Milena Kaestner, Anthony Norcia, Stanford University, Stanford, United States

- MT1015 Correlation between microstructural properties of the optic tract and size of primary visual cortex**
Toshikazu Miyata, Noah Benson, Jonathan Winawer, Hiromasa Takemura, Osaka University, Suita-shi, Japan
- MT1017 Population receptive fields in human visual cortex during active vision**
Alessio Fracasso, Katarina Moravkova, Jasper Fabius, University of Glasgow, Glasgow, United Kingdom
- MT1018* Characterising coarse-scale orientation biases in human visual cortex via forward-modelling approach**
Katarina Moravkova, Jasper Fabius, Alessio Fracasso, University of Glasgow, Glasgow, United Kingdom
- MT1019 Spatial profile of representation of visual categories revealed by fMRI deep neural decoding**
Noriya Watanabe, Kosuke Miyoshi, Koji Jimura, Ruedeerat Keerativittayayut, Kiyoshi Nakahara, Masaki Takeda, BrainCom, Kochi University of Technology, Kami-city, Japan
- MT1020* The temporal dynamics underlying behaviorally-relevant object properties during visual processing**
Lina Teichmann, Martin Hebart, Chris Baker, National Institute of Mental Health, Bethesda, United States
- MT1021 Neural and cognitive underpinning of ball-strike judgments in baseball umpires**
Yin-Hua Chen, Shih-Kuei Huang, Ka-Lok Cheung, National Taiwan Sport University, Taoyuan, Taiwan
- MT1022 Investigation of Concept Representations Using a Large-scale Neuroimaging Dataset**
Sangsoo Jin, Juhyeon Lee, Jong-Hwan Lee, Korea University, Seoul, Korea, Republic of
- MT1023 Multi-unit face-selective response near the fusiform face area can be modulated by facial expression**
Vadim Axelrod, Camille Rozier, Tal Seidel Malkinson, Katia Lehongre, Claude Adam, Virginie Lambrecq, Vincent Navarro, Lionel Naccache, Bar-Ilan University, Ramat-Gan, Israel
- MT1024 Dynamic body processing and species-specific body patches in the human brain**
Baichen Li, Marta Poyo Solanas, Giuseppe Marrasso, Rajani Raman, Rufin Vogels, Nick Taubert, Martin Giese, Beatrice de Gelder, Maastricht University, Maastricht, Netherlands
- MT1025 Measuring human conscious perception with MEG**
Theodoros Karapanagiotidis, Elia Formisano, Rainer Goebel, Antony Morland, Alex Wade, University of York, York, United Kingdom
- MT1026 Impaired evoked and induced neural oscillations during visual search in cerebral visual impairment**
Alessandra Federici, Christopher Bennett, Corinna Bauer, Emiliano Ricciardi, Peter Bex, Lotfi Merabet, Davide Bottari, IMT School for Advanced Studies Lucca, Lucca, Italy
- MT1027 Pre-saccadic information interacts with post-saccadic processing in V1**
Grace Edwards, Elisha Merriam, Chris Baker, National Institutes of Health, Bethesda, United States
- MT1028* 7T BOLD fMRI of human V1 reveals an orientation-tuned signal consistent with a columnar organization**
Fernando Ramirez, Peter Bandettini, NIMH, Bethesda, United States
- MT1029 Categorization-dependent representation, selection and reduction of stimulus features in brain**
Yaoong Duan, Robin Ince, Joachim Gross, Philippe Schyns, University of Glasgow, Glasgow, United Kingdom
- MT1030 Color-Biased Regions in the Ventral Visual Pathway Are Food-Selective**
Ian Pennock, Chris Racey, Emily Allen, Yihan Wu, Thomas Naselaris, Kendrick Kay, Anna Franklin, Jenny Bosten, University of Sussex, Brighton, United Kingdom
- MT1031 Neural representation of occluded objects in visual cortex**
Fraser Smith, Courtney Mansfield, Tim Kietzmann, Jasper van den Bosch, Ian Charest, Marieke Mur, Niko Kriegeskorte, University of East Anglia, Norwich, United Kingdom
- MT1032 Development of distributed responses in ventral temporal cortex in children is linked to behavior**
Marisa Nordt, Jesse Gomez, Vaidehi Natu, Alex Rezai, Dawn Finzi, Holly Kular, Kalanit Grill-Spector, Stanford University, Stanford, United States
- MT1033 Adult visual cortex retains local neuroplasticity**
Joana Carvalho, Azzurra Invernizzi, Joana Martins, Remco Renken, Frans Cornelissen, Champalimaud Foundation, Lisboa, Portugal
- MT1034 Does transient narrowing of the visual field move cortical visual neurons into peripheral state?**
Marco Ninghetto, Kamila Kubicka, Kamil Szulborski, Tomasz Galecki, Jacek Szaflik, Georgios Keliris, Kalina Burnat, Nencki Institute of Experimental Biology, Warsaw, Poland
- MT1035 Activation of the ventral and dorsal visual streams in a functional model of optic neuritis**
Anna Arkhipova, Jan Kremláček, Tereza Svrčinová, František Odstrčil, Martina Rybáriková, Kruznev Nijhar, Dalibor Zimek, Jan Mareš, Martin Šín, Pavel Hok, Palacký University Olomouc, Olomouc, Czech Republic
- MT1036 Sensory predictions about self- vs externally generated visual stimuli in early visual cortex**
Bianca van Kemenade, Lars Muckli, University of Glasgow, Glasgow, United Kingdom
- MT1037 Investigating the functional organisation of curvature responses in human V4**
Elisa Zamboni, Frida Torkelsen, Aneuring Kennerley, Renzo Huber, Antony Morland, University of York, York, United Kingdom
- MT1038 Pareidolia as a window onto the neuro-cognitive underpinnings of human creativity**
Antoine Bellemare, Yann Harel, Jordan O'Byrne, Geneviève Mageau, Arne Dietrich, Karim Jerbi, Concordia University, Montreal, Canada
- MT1039 The effect of top-down signal to the visual cortex on forming a perception of ambiguous stimuli**
Yulia Lazarova, Yingying Huang, Lucy Petro, Lars Muckli, University of Glasgow, Glasgow, United Kingdom
- MT1040 White matter of ventral visual areas better predicts cytoarchitecture than category-selectivity**
Emily Kubota, Mareike Grotheer, Dawn Finzi, Vaidehi Natu, Jesse Gomez, Kalanit Grill-Spector, Stanford University, Mountain View, United States
- MT1041 Semantic and visual features along the ventral visual stream**
Markus Badwal, Johanna Bergmann, Martin Hebart, Christian Doeller, Max-Planck-Institute for Cognitive and Brain Sciences, Leipzig, Germany
- MT1042 Estimating scotomata using truncated Gaussian pRFs**
Michael Woletz, David Linhardt, Maria Vasileiadi, Martin Tik, Christian Windischberger, High Field MR Center, Center for Medical Physics and BME, Medical University of Vienna, Vienna, Austria

MT1043 Neural correlates of the motion-defined form deficit in the fellow eye of adults with amblyopia
Akosua Asare, Nolan Chem, Hee Yeon Im, Deborah Giaschi, University of British Columbia, Vancouver, Canada

MT1044 Object similarities can be efficiently generated using human ratings and neural network predictions
Philipp Kaniuth, Jonas Perkuhn, Martin Hebart, Max Planck Institute for Human Cognitive and Brain Sciences, Leipzig, Germany

MT1045 Data-driven clustering of neural responses to a large set of natural images
James Campbell, Zijin Gu, Keith Jamison, Mert Sabuncu, Amy Kuceyeski, Cornell University, Ithaca, United States

Sleep and Wakefulness

MT1046 Genetically mediated associations between chronotype and neuroimaging phenotypes in the UK Biobank
John Williams, Laura Bravo-Merodio, Georgios Gkoutos, Magdalena Chechlac, University of Birmingham, Birmingham, United Kingdom

MT1047 Spatiotemporal power changes in the cortical areas during propofol-induced unconsciousness
Mikyung Choe, Seung-Hyun Jin, June Sic Kim, Chun Kee Chung, Seoul National University, Seoul, Korea, Republic of

MT1048 Cerebral activation differences between slow wave-coupled and uncoupled spindles
Daniel Baena Pérez, Zhuo Fang, Aaron Gibbings, Dylan Smith, Laura Ray, Julien Doyon, Adrian Owen, Stuart Fogel, uOttawa, Institute of Mental Health Research, Ottawa, Canada

MT1049 Sleep-related brain functional reorganization depends on task engagement
Samika Kumar, Enzo Tagliazucchi, Javier Gonzalez-Castillo, Pedro Mediano, Isabel Fernandez, Anat Arzi, Corinne Bareham, Peter Bandettini, Tristan Bekinschtein, National Institutes of Health / University of Cambridge, Bethesda, United States

MT1050 The impact of sleep deprivation on integrated network states during cognitive task performance
Nathan Cross, Florence Pomares, Aude Jegou, Alex Nguyen, Aurore Perrault, Kangjoo Lee, Makoto Uji, Umit Aydın, Christophe Grova, Thien Thanh Dang-Vu, Centre de Recherche de l'Institut Universitaire de Gériatrie de Montréal (CRIUGM), Montreal, Canada

MT1051 The role of sleep quality and grey matter volumes in prediction of depressive symptoms severity
Mahnaz Olfati, Shahrooz Faghihroohi, Fateme Samea, Somayeh Maleki Balajoo, Sarah Genon, Simon Eickhoff, Masoud Tahmasian, Shahid Beheshti University, Tehran, Iran, Islamic Republic of

MT1052 Convergent brain alterations in insomnia disorder: A revisited neuroimaging meta-analysis
Gerion Reimann, Vincent Küppers, Robert Langner, Simon Eickhoff, Masoud Tahmasian, Research Centre Jülich, Jülich, Germany

MT1053 Sleep spindles and audition: evidence against a thalamic gating mechanism
Hugo Jourde, Emily Coffey, Concordia University, Montreal, Canada

MT1054 The association of amygdala-insula functional connectivity and sleep via negative affect among teens
Benjelene Sutherland, Jessica Flannery, Michael Riedel, Lauren Hill-Bowen, Patricio Viera Perez, Katharine Crooks, Angela Laird, Elisa Trucco, Matthew Sutherland, Florida International University, Miami, United States

MT1055 EEG microstates of dreams
Lucie Brechet, Denis Brunet, Lampros Perogamvros, Giulio Tononi, Christoph Michel, University of Geneva, Geneva, Switzerland

MT1056* Distinct sleep patterns linked to mental health and cognition with associated RSFC signatures
Aurore Perrault, Valeria Kebets, Nicole Kuek, Nathan Cross, Rackeb Tesfaye, Jingwei Li, Joshua Gooley, Michael WL Chee, Thien Thanh Dang-Vu, B.T. Thomas Yeo, Concordia University, Montreal, Canada

MT1057 Auditory Processing in Sleep and Wake: Evidence from Intracranial EEG
Sigurd Alnes, Ellen van Maren, Ida Boccalaro, Debora Ledergerber, Johannes Sarnthein, Markus Schmidt, Antoine Adamantidis, Lukas Imbach, Kaspar Schindler, Maxime Baud, Athina Tzovara, University of Bern, Bern, Switzerland

MT1058 Local targeted memory reactivation in human sleep
Ella Bar, Amit Marmelshtein, Anat Arzi, Ofer Perl, Ethan Livne, Eyal Hizmi, Rony Paz, Noam Sobel, Yadin Dudai, Yuval Nir, Weizmann Institute of Science, Rehovot, Israel

MT1059 The Dynamic Functional Connectivity of the Sleep Deprived Brain
Ana Martínez, Sarael Alcauter, Fernando Barrios, Universidad Nacional Autónoma de México, Querétaro, Mexico

Perception and Attention Other

MT967 A Study on the Effects of Caffeine Intake on Brain Activation and Electrocardiography
Heewon Na, Suh-Yeon Dong, Sookmyung Women's University, Seoul, Korea, Republic of

MT968 Catching wandering minds with tapping fingers
Josephine Groot, Gábor Csifcsak, Sven Wientjes, Birte Forstmann, Matthias Mittner, University of Amsterdam, Amsterdam, Netherlands

PHYSIOLOGY, METABOLISM AND NEUROTRANSMISSION

Cerebral Metabolism and Hemodynamics

WTh1065 Cerebral hemodynamics predict longitudinal changes in white matter lesions
Amelia Strom, John Jacoby, Randa Almaktoom, Allison Lovely, Kathryn Yochim, David Salat, Meher Juttukonda, Massachusetts Institute of Technology, Cambridge, United States

WTh1066 Dense mapping reveals disconnect between resting state fMRI metrics and cerebrovascular physiology
Stefano Moia, Gang Chen, Eneko Uruñuela, Rachael Stickland, Maite Termenon, César Caballero-Gaudes, Molly Bright, Basque Center on Cognition, Brain and Language, Donostia – San Sebastián, Spain

WTh1067 Clustering of breathhold fMRI BOLD responses reveals physiologically-driven functional-like networks

Stefano Moia, Molly Bright, César Caballero-Gaudes, Basque Center on Cognition, Brain and Language, Donostia – San Sebastián, Spain

WTh1068 Individualized signaling density map of the human brain

Gabriel Castrillón, Katarzyna Kurcyus, Lukas Utz, Samira Epp, Antonia Bose, Andreas Ranft, Lalith Sundar, Josef Rauschecker, Igor Yakushev, Christine Preibisch, Valentin Riedl, Technical University of Munich, Munich, Germany

WTh1069 A comparison of the epileptic discharges driven BOLD response functions in EEG-fMRI data

Nikodem Hryniewicz, Marcin Sińczuk, Rafał Rola, Ewa Piątkowska-Janko, Danuta Ryglewicz, Piotr Bogorodzki, Nalecz Institute of Biocybernetics and Biomedical Engineering PAS, Warsaw, Poland

WTh1070 Perioperative Neuromonitoring of Neonatal Cortical Networks with HD-DOT

Kelsey King, Tessa George, Dani Tallchief, Abigail Magee, Anshuman Sharma, Adam Eggebrecht, Washington University School of Medicine in St. Louis, Saint Louis, United States

WTh1071 Pharmacological magnetic resonance imaging: BOLD and ASL provide complementary results

Fanny Munsch, Manuel Taso, Daniel Wolf, Daniel Press, Stephanie Buss, John Detre, David Alsop, Beth Israel Deaconess Medical Center, Harvard Medical School, Boston, United States

WTh1072 Effects of a Web-Based Mindfulness Training on Cerebral Blood Flow

Maria Mora Álvarez, Nadia Dorosti, Britta Hölzel, Benno Bremer, Elena Hell, Ebru Tavacıoğlu, Kathrin Koch, TUM, Munich, Germany

WTh1073 Regional effects of age and sex within APOE genotype on cerebral perfusion measures

Nikou Damestani, John Jacoby, Randa Almaktoom, Allison Lovely, Marziye Eshghi, Kathryn Yochim, David Salat, Meher Juttukonda, Massachusetts General Hospital, Charlestown, United Kingdom

WTh1074 Agreement between hemodynamic delay maps derived from breathing task and resting state fMRI data

Jingxuan Gong, Rachael Stickland, Molly Bright, Northwestern University, Chicago, United States

WTh1075 Quantifying the metabolic costs of expectation during visual processing

André Hechler, Floris de Lange, Valentin Riedl, Neuroradiology, Technical University Munich, Munich, Germany

WTh1076 Long-term endurance training induces cerebral perfusion changes in young Adults

Neeraj Upadhyay, Theresa Schörkmaier, Angelika Maurer, Jannik Claus, Lukas Scheef, Marcel Daamen, Jason Martin, Rüdiger Stirnberg, Ulrike Attenberger, Tony Stöcker, Henning Boecker, Uniklinikum Bonn, Bonn, Germany

WTh1077 Investigating the spatial relationship between BOLD fMRI features and brain glucose metabolism

Tommaso Volpi, Erica Silvestri, Marco Aiello, Maurizio Corbetta, Alessandra Bertoldo, University of Padova, Padova, Italy

WTh1078 Oxygen Metabolism Changes in Support of Positive but not Negative BOLD Signal Changes

Samira Epp, Christine Preibisch, Jesscia Andrews-Hanna, Valentin Riedl, Technical University of Munich, München, Germany

WTh1079 Quantifying Cerebral Energy Metabolism Under Varying Levels of Systemic Glucose Availability

Antonia Bose, Johanna Köhler, Stefanie Haschka, Roman Iakoubov, Valentin Riedl, Technical University Munich, Munich, Germany

WTh1080 Simultaneous Quantification of Glucose and Oxygen Metabolism in the Cortex During Task Processing

Antonia Bose, Samira Epp, Katarzyna Kurcyus, Andreas Ranft, André Hechler, Igor Yakushev, Christine Preibisch, Gabriel Castrillón, Valentin Riedl, Technical University Munich, Munich, Germany

WTh1081 Comparison of breath-hold stimuli for cerebrovascular reactivity mapping in children and adolescents

Kristina Zvolanek, Joshua Dean, Neha Reddy, Rachael Stickland, Molly Bright, Northwestern University, Chicago, United States

WTh1082 Acute Caffeine Administration as a Confound for q-MRI & volumetric MRI studies: Preliminary Results

Vishaal Sumra, Sofia Chavez, University of Toronto, Pickering, Canada

WTh1083 Estimating cortical laminar specificity from precapillary arterioles using biophysical simulations

Grant Hartung, Joerg Pfanmoeller, Avery Berman, Jingyuan Chen, Divya Varadarajan, Jonathan Polimeni, Athinoula A. Martinos Center / Mass General Hospital, Charlestown, United States

WTh1084 Cerebrovascular function across the menstrual cycle

Melissa Wright, Andrew Crofts, Saajan Davies, Micheal Germuska, Jessica Steventon, Kevin Murphy, Cardiff University, Cardiff, United Kingdom

WTh1085 Respiratory phase-locking to minimize physiological noise in resting-state fMRI in rodents

Lisa Meyer-Baese, Alaina Smith, Wenju Pan, Shella Keilholz, Georgia Institute of Technology, Atlanta, United States

WTh1086 Calibrated visual fMRI with hypercapnia challenge in multiple sclerosis

Wanyong Shin, Balu Krishnan, Ajay Nemani, Mark Lowe, Cleveland Clinic, Cleveland, United States

WTh1087 Coupling between cerebrovascular oscillations and CSF flow fluctuations during wakefulness

Ho-Ching Yang, Ben Inglis, Thomas Talavage, Vidhya Vijayakrishnan Nair, Jinxia Yao, Bradley Fitzgerald, Amy Schwichtenberg, Yunjie Tong, Purdue University, West Lafayette, United States

Neurophysiology of Imaging Signals

WTh1088 Sensorimotor oscillation dynamics and cortico-muscular coupling underlie muscle force regulation

Scott Mongold, Harri Piitulainen, Thomas Legrand, Marc Vander Ghinst, Gilles Naeije, Veikko Jousmäki, Mathieu Bourguignon, Université Libre de Bruxelles, Brussels, Belgium

WTh1089 Suppression of cortical slow rhythms enhances functional connectivity in fMRI resting state networks

Vahid Khalilzad Sharghi, Eric Maltbie, Wen-Ju Pan, Shella Keilholz, Kaundinya Gopinath, Emory University/Georgia Institute of Technology, Atlanta, United States

WTh1090 The fMRI signal exhibits more autonomic variance as vigilance decreases

Benjamin Gold, Sarah Goodale, Chong Zhao, Jingyuan Chen, Catie Chang, Vanderbilt University Medical Center, Nashville, United States

WTh1091 The functional MRI signature of premature heart beats in the brain

Csaba Orban, Ruby Kong, Michael WL Chee, Jonathan Power, B.T. Thomas Yeo, National University of Singapore, Singapore, Singapore

WTh1092 **Infraslow neuronal signals in GEVI voltage imaging in rest correlate to cortical CBV signals in mice**

Wen-Ju Pan, Yunmiao Wang, Harrison Watters, Lisa Meyer-Baese, Corrie Smith, Dieter Jaeger, Shella Keilholz, Emory University/Georgia Institute of Technology, Atlanta, United States

Pharmacology and Neurotransmission

WTh1093 **Dose-dependent Effects of S-ketamine on Frontal Neurometabolism: a 7T Functional MRS Study**

Daphne Boucherie, Sean van Mil, Liesbeth Reneman, Markus Hollmann, Anouk Schranter, Amsterdam University Medical Centers, Amsterdam, Netherlands

WTh1094 **Unravelling the serotonergic contribution to citalopram-induced changes in functional connectivity**

Anouk Schranter, Ottavia Dipasquale, Amsterdam UMC, Amsterdam, Netherlands

WTh1095 **Obesity-related brain changes are linked to dopaminergic, serotonergic, and endocannabinoid system**

Filip Morys, Justine Hansen, Bratislav Misic, Alain Dagher, Montreal Neurological Institute, Montreal, Canada

WTh1096 **Emerging Functional Connectivity Patterns During Anesthesia in the Developing Human Brain**

Adela Desowska, Charles Berde, Laura Cornelissen, Boston Children's Hospital, Boston, United States

WTh1097 **Brain State Network Dynamics and characterization during resting state dopamine modulation**

Julio Rodino, Grace Whitaker, Aland Astudillo, Hernan Hernandez-Larzabal, David Araya, Pamela Guevara, Wael El-Deredy, Brain Dynamics Laboratory, Viña del Mar, Chile

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