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## Abstracts

# LXIV Meeting of the Italian Society for Veterinary Science (SISVet), Asti 2010 – selected papers

Full papers available in Pugliese A, Gaiti A, Boiti C (2012) *Veterinary Science – Current Aspects in Biology, Animal Pathology, Clinic and Food Hygiene*. Springer-Verlag, Heidelberg

Alberto Gaiti <sup>1</sup> 

(1) Faculty of Veterinary Medicine, University of Perugia, Perugia, Italy

 Alberto Gaiti  
Email: [gaiti-a@unipg.it](mailto:gaiti-a@unipg.it)

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## **ANTIBIOTIC-RESISTANCE PROFILES IN RELATION TO VIRULENCE FACTORS, AND PHYLOGENETIC GROUP OF UROPATHOGENIC *ESCHERICHIA COLI* ISOLATED FROM DOGS AND CATS**

Tramuta C<sup>1</sup>, Nucera D<sup>2</sup>, Robino P<sup>1</sup>, Salvarani S<sup>1</sup>, Nebbia P<sup>1</sup> <sup>1</sup>*Dipartimento di Produzioni Animali, Epidemiologia ed Ecologia;* <sup>2</sup>*Dipartimento di Patologia Animale - Università di Torino*

**SUMMARY** - In this study we assessed the association among antibiotic resistance profiles, virulence genotype and phylogenetic group within a collection of *Escherichia coli*. Forty uropathogenic *E. coli* strains isolated from dogs and cats with urinary tract infection were analysed by disk diffusion method and by PCRs. Results suggest that clinical isolates with a number  $\geq 3$  of virulence factors belong on the whole to phylogroup B2 (90.5%) and *E. coli* strains with a number  $< 3$  of virulence genes were distributed in all phylogenetic groups. Considering virulence factors association with antimicrobial resistance, no statistically significant results were obtained ( $P > 0.05$ ). Only gene *iutA* showed a trend of association with MDR ( $P = 0.055$ ). Resistant strains were distributed in all phylogenetic groups (57%, B2; 43%, non-B2), in contrast *E. coli* isolates susceptible were associated with group B2 (90%) and with group D (10%).