

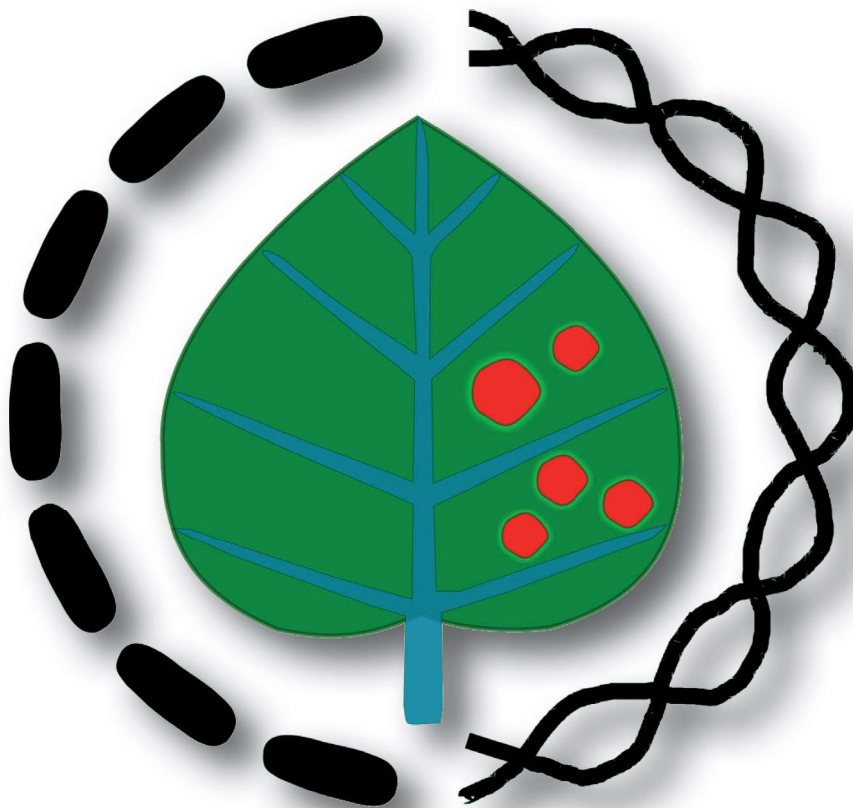


**SIPaV**  
Società Italiana di Patologia Vegetale  
Italian Phytopathological Society



UNIVERSITÀ  
POLITECNICA  
DELLE MARCHE

*XXIV National Congress Italian  
Phytopathological Society (SIPaV)*



**BOOK OF ABSTRACTS**

**Ancona, 5-7 September, 2018**

UNIVERSITÀ POLITECNICA DELLE MARCHE  
*Department of Agricultural Food and Environmental Sciences*

*Edited by*

Gianfranco Romanazzi, Lucia Landi, Sergio Murolo, Erica Feliziani, Valeria Mancini, Luisa Rubino



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*Aula Azzurra*

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## Tramesan, an eco-friendly approach against Septoria disease complex in wheat

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Wheat is the most cultivated cereal representing the main source of plant proteins in human food. However, up to 50% of worldwide wheat production may be lost because fungal diseases. The Septoria disease complex (STB) is critical, being *Parastagonospora nodorum* and *Zymoseptoria tritici* among the principal foliar pathogens on wheat. Currently, chemical fungicides (e.g. strobilurins, SDHI, triazoles and imidazoles) are widely used to challenge crop diseases. The chemicals may cause the insurgence of resistant fungal strains and, not less important, polluting the environment with possible toxic effects on humans and animals. The European Regulation 128/2009 aimed to control the use of pesticides; *de facto*, this regulation eliminates several of them from the market. All this prompts the research to find eco-friendly novel alternatives to chemical pesticides; in particular, agents based on living microorganism or natural products from them are studied to control plant diseases. One of the mechanisms of action of this novel bio compounds generation lays on the stimulation of plant defences; this phenomenon is called “defence priming”. It exploits natural ability of the plant immune system to act through inducible responses. Here we use purified and semi-purified Tramesan, a polysaccharide from the secretome of the basidiomycete *Trametes versicolor*, to assay its ability to prime wheat defences against septoriosi in greenhouse and field trials, under artificial and natural infection in three different crop seasons (2016-2017-2018). The results indicate that Tramesan is a promising solution to contrast the Septoria disease complex.

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