



XXV NATIONAL CONGRESS

Italian Phytopathological Society



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UNIVERSITÀ
DEGLI STUDI
DI MILANO

BOOK OF ABSTRACTS

16 - 18 September, 2019

Università degli Studi di Milano
Main Lecture Hall, Via Festa del Perdono, 7 - Milan

Scientific Committee

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Conference program

Monday, 16th September

12.30-2.30 pm: Registration of participants and posters set up

2.30-3.00 pm: Opening of the SIPaV 2019 Congress and welcome address

3.00-4.15 pm: Opening Session (*Chairs* M. L. Gullino, M. Pasquali)

3.15-4.15pm: Invited talk

The Edge of Tomorrow - Plant Health in the 21st Century.

S. Kamoun

4.15-5.00 pm: SIPaV "Giovanni Scaramuzzi" 2019 Award (*Chairs* M. L. Gullino, S. Loreti)

5.00-5.30 pm: SIPaV High School Award, II Edition "Teach me to take care of a plant (Insegnami a curare una pianta)"

5.30-7.45 pm: Aperiposter

Tuesday, 17th September

9.00-10.45 am: I Session - Plant virology (*Chairs* G. Parrella, A. Polverari)

9.00-9.30 am: Invited talk

Believing is seeing: lessons from emerging viruses in grapevine.

M. Fuchs

9.30-10.45 am

Seed transmission of tomato leaf curl New Delhi virus Italian isolate in zucchini squash.

E.-J. Kil, T. B. T. Vo, C. Fadhila, A. Lal, H. T. Phuong, E. Troiano, G. Parrella, S. Lee

BNYVV collective infectious units: RNA-RNA interactions driving the integrity preservation of a multicomponent genome.

M. Dall'Ara, D. Poli, M. Patrian, C. Ratti, F. Michel, E. Klein, S. E. Bouzoubaa, D. Gilmer

Fast dissection of virome infecting different hosts by NGS approaches.

M. Calassanzio, J. Zhang, A. Prodi, C. Ratti

Effect of onion yellow dwarf virus infection on 'Rossa di Tropea' onion bulb quality and organoleptic properties.

G. Micali, A. Tiberini, F. Araniti, A. Dattola, A. Piscopo, G. Gullo, G. Albanese

Empty cowpea mosaic virus-based particles as potential nanotools for plant protection against diseases.

D. Danzi, R. Zampieri, A. Polverari, L. Avesani, E. Vandelle

10.45-11.15 am: Coffee break

11.15-12.00 am: II Session - Diagnostic tools (*Chairs* G. Romanazzi, F. Quaglino)

New multiplex Loop mediated isothermal amplification (LAMP) based assays for the early sequence-specific detection of *Dothistroma pini*, *Dothistroma septosporum* and *Lecanosticta acicola* on pine needles.

C. Aglietti, P. Capretti, L. Ghelardini, G. Marchi, I. Barnes, C. Villari

A new approach to identify *Xylella fastidiosa* in plant.

L. Faino, V. Scala, A. Albanese, N. Pucci, A. Grottoli, V. Modesti, A. L'Aurora, M. Reverberi, S. Loreti

MP102-LABINABAG: development of a prototype molecular diagnostic kit for the on-site detection of *Macrophomina phaseolina* using a portable PCR platform.

S. Pecchia, D. Da Lio, A. Vinci, C. Pugliesi, M. Fambrini, G. Puntoni

12.00-1.00 pm: III Session - Innovative disease containment tools (Chairs F. Faoro, A. Kunova)

The devil wears *Trichoderma gamsii*: competitive interactions with *Fusarium graminearum* to control Fusarium Head Blight.

S. Sarrocco, G. Vannacci

Biocontrol activity of *Aureobasidium pullulans* against the soil pathogen *Rhizoctonia solani*.

A. Di Francesco, M. Corbetta, D. Baldo, C. Ratti, E. Baraldi

Deciphering the role of the on-farm compost microbiome in natural soil-borne disease suppressiveness by high-throughput metagenomic analysis.

C. Pane, R. Scotti, R. Sorrentino, M. Molisso, A. Di Matteo, M. Zaccardelli

NoPv1, a new antifungal peptide able to protect grapevine from *Plasmopara viticola* infection.

M. Colombo, S. Masiero, M. Perazzolli, S. Pellegrino, R. Velasco, R. Musetti, S. L. Toffolatti, S. Vezzulli, P. Pesaresi

1.00-2.00 pm: Light lunch

2.15-3.45 pm: IV Session - Plant bacteriology (Chairs V. Catara, R. Buonaurio)

2.15-2.45 pm: Invited talk

Insight into the Citrus Huanglongbing Pathosystem and Disease Control.

N. Wang

2.45-3.45 pm

The Na⁺/Ca²⁺ exchanger is critical for virulence of *Pseudomonas savastanoi* pv. *savastanoi* and *Pseudomonas syringae* pv. *tomato*.

C. Moretti, S. Tralbalza, E. Caballo-Ponce, C. Ramos, H. A. van den Burg, C. A. Palmerini, R. Buonaurio

¹H-NMR - based metabolomic approach on *Xylella fastidiosa* subsp. *pauca*-infected olive trees study: disease biomarkers and a field treatment response characterization.

F. Angilè, C. R. Girelli, L. Del Coco, D. Migoni, L. Zampella, M. Scortichini, F. P. Fanizzi

Twiching motility and biofilm formation influenced by lipid entities selected by lipid profile of olive orchard.

V. Scala, N. Pucci, M. Salustri, V. Modesti, A. L'Aurora, M. Scortichini, M. Reverberi, S. Loreti

Study of biovar-specific determinants and role of communication with host plant in *Pseudomonas syringae* pv. *actinidiae* virulence.

M. R. Puttilli, A. Regaiolo, T. Colombo, V. Maurizio, T. Libardi, V. Venturi, G. De Vescovi, A. Polverari, E. Vandelle

3.45-4.45 pm: V Session - Pathogen-host interaction (Chairs F. Favaron, M. Iriti)

The *Fusarium graminearum* FGSG_03624 xylanase primes plant immune responses and increases plant disease resistance.

S. Tundo, M. C. Paccanaro, I. Moschetti, R. D'Ovidio, F. Faoro, F. Favaron, L. Sella

Studying proteomic changes in Volatile Organic Compounds (VOCs) primed plants.

I. Mancini, M. M. Monti, L. Gualtieri, M. Marsoni, C. Vannini, F. Loreto, M. Bracale, M. Ruocco

Fatty acid metabolism in *Fusarium verticillioides*.

M. Beccaccioli, A. Cacciotti, V. Scala, M. Reverberi

Postharvest tritrophic interaction involving biocontrol yeast, fungal pathogen and host fruit: a transcriptomic study.

G. Barone, D. Palmieri, C. Miccoli, F. De Curtis, R. Castoria, G. Ianiri

4.45-5.15 pm: Coffee break

5.15-7.45 pm: General Assembly of SIPaV Members

8.15 pm: Social dinner

Wednesday, 18th September

8.30-9.00 am: Welcome coffee

9.00-11.15 am: VI Session - Epidemiology: from risk to emergency (*Chairs* V. Rossi, P. Gonthier)

9.00-9.45 am: Invited talk

A global assessment of the burden of pathogens and pests on major food crops.

S. Savary, L. Willocquet, S. J. Pethybridge, P. D. Esker, N. McRoberts, A. Nelson

9.45-11.15 am

A synthetic microbial community for the control of Fusarium wilt of banana.

G. Bubici, M. I. Prigigallo

Insect-borne prokaryote-associated diseases in tropical and subtropical perennial crops (TROPICSAFE): improving the production of citrus, grapevine and coconut palms.

A. Bertaccini, K. Krüger, N. Fiore, A. Tena, M. Nicolaisen, L. Cesaro

Characterization of Phytophthora and Botryosphaeriaceae species associated with emerging olive diseases in northeast Italy.

B. T. Linaldeddu, C. Bregant, L. Montecchio, F. Favaron, L. Sella

Anthrax of aromatic and ornamental Lamiaceae in Italy, a case study of Colletotrichum species diversity.

V. Guarnaccia, I. Martino, G. Gilardi, M. L. Gullino, A. Garibaldi

Thousand Cankers Disease of walnut in Italy: epidemiological aspects of an emerging disease.

A. Benigno, T. Panzavolta, M. Bracalini, S. Moricca

Distribution of Phytophthora oleae in Southern Italy.

M. Riolo, M. Evoli, L. Schena, F. Aloï, E. Santilli, D. Ruano-Rosa, G. E. Agosteo, A. Pane, F. La Spada, S. O. Cacciola

11.15-11.30 am: Poster award

11.30 am - 1.00 pm: Round table - Plant Health for the Food Security