

XXVIII Congress of the Italian Phytopathological Society

September 18-20, 2023

Third announcement

Dear Colleagues,

the opening of the XXVIII SIPaV Congress, organized by the Departments of Agriculture, Pharmacy and Veterinary Medicine and Animal Production of the University of Naples Federico II is quickly approaching. We have received more than 200 registrations to attend, confirming that the Congress theme “Innovations and research in plant pathology to support the ecological transition” has stimulated a great interest by young and senior scientists to participate.

The scientific program includes keynote lectures provided by four international invited speakers and will be enriched by oral communications divided into 4 sessions, and poster exposition.

Following some useful information.

We look forward to seeing you soon!

The Organising Committee

<i>Scientific Committee</i>	<i>Organising Committee</i>
Francesco Vinale	Francesco Vinale
Paola Battilani	Sheridan Lois Woo
Sheridan Lois Woo	Marco Camardo Leggieri
Sabrina Sarrocco	Giuliano Bonanomi
Riccardo Baroncelli	Roberta Marra
Salvatore Walter Davino	David Turrà
Matteo Lorito	Nadia Lombardi
	Gelsomina Manganiello
	Stefania Lanzuise
	Stefania Vitale
	Alessia Staropoli
	Laura Gioia

Posters

The poster dimensions must be 70 cm x100 cm (W x H). They will be exhibited for the entire duration of the Congress. A dedicated location will host all the posters and a number will be associated to each poster, as listed in the Book of abstracts”, that will be provided in an electronic format to be downloaded on your devices via QR Code. The material for posting the posters will be provided by the organizers.

Oral presentations

Speakers will have a time slot of 10 minutes for their presentation (+2 minutes for questions). The awardees of the “Young Researchers in training” will briefly demonstrate their results in 2-3 slides (3 minutes). The winner of the SIPaV "Giovanni Scaramuzzi" award will have a maximum time of 20 minutes (+5 minutes for questions). We kindly ask all the speakers to respect the time limit for the oral presentations.

Congress venue

The Congress will be held at the Centro Congressi Partenope of the University of Naples Federico II (Via Partenope 36 - 80121 Naples), on the seaside near Castel dell'Ovo. Please note that the seafront area is car-free, ZTL zone, thus, cars and public transportation do not have access to the entrance of the conference hall.

How to reach Congress venue

From Airport: take a taxi or take the Alibus line to the "Molo Angioino / Beverello" bus stop, then walk to Via Acton, to take bus 154 until the Santa Lucia bus stop, then walk to the congress venue (walking time 5 minutes).

From the Central Train Station (Piazza Garibaldi): take a taxi or take the Metropolitana Line 1 (follow indications) to the stop "Municipio" where it is possible to reach the Congress venue by taxi or proceeding with a pleasant walk through Piazza del Plebiscito (walking time 15 minutes).

By car: Once on the Tangenziale take Exit 10 "Fuorigrotta" of Naples you can reach the Centro Congressi Partenope (Via Partenope 36 - 80121 Naples) by following the indications reported at this link:

<https://www.google.ca/maps/dir/40.8366528,14.1976996/Via+Partenope,+38,+80121+Napoli,+Italy/@40.8399875,14.2342195,14z/am=t/data=!4m9!4m8!1m0!1m5!1m1!1s0x133b09ac41cd4d91:0x4f81a476a2ed7b83!2m2!1d14.2469524!2d40.8303013!3e0?hl=en&entry=ttu>

ATTENTION: Some sections of Via Caracciolo/via Partenope may be closed at certain times or days. It is advisable to leave the car in nearby garage (toll parking), which can also be booked online, such as:

1. Lungomare garage, Via Arcoleo, 16. Tel. +39 081 1933 5868
2. Garage Nardones Via Nardones 60. Tel. +39 081 415445
3. Morelli parking via Domenico Morelli, 11. Tel. +39 081 1913 0220
4. Parking Plebiscito Via Santa Lucia 38. Tel. +39 081 1954 1488
5. Chiatamone parking Via Chiatamone, 26. Tel. +39 081 764 2863
6. Parking del Golfo Via Generale Giordano Orsini, 44. Tel. +39 339 482 3412

Conference program

Monday, 18th September

12:00-14:30 **Registration and poster setup**

14:30-15:00 **XXVIII SIPaV Congress opening**

Welcome address

Matteo Lorito – Rector of the University of Naples Federico II, Past-President SIPaV

Danilo Ercolini – Director of the Department of Agriculture, University of Naples Federico II

15:00-15:30 **Invited talk**

Multitrophic interactions among metaorganisms and bioinspired plant protection

Francesco Pennacchio – Department of Agriculture, University of Naples Federico II, Naples, Italy

15:30-17:30 **First session - Advances in plant disease diagnosis**

Chairs: S. Davino – R. Marra

Development of a new LAMP assay for the fast diagnosis of *Elsinoë fawcettii*

C. Aglietti, A. Benigno, D. Rizzo, L. Bartolini, D. Da Lio, A. D'Agostino, A. Aronadio, D. Del Nista, G. Gilli, C. Francia, S. Moricca

Transmission evidence by *Aculops lycopersici* (Acari: Eriophyidae) of tomato fruit blotch virus (ToFBV)

S. Bertacca, E. Sanahuja, A. Alfaro-Fernández, S. Panno, S. Davino, M. I. Font-San-Ambrosio

Identification of plant pathogenic bacteria using Raman microspectroscopy coupled with a dielectrophoretic device

C. D'Errico, A. Sacco, G. Barzan, M. Ciuffo, C. Morone, S. Matić, C. Sacco Botto, A.M. Giovannozzi, A.M Rossi, C. Portesi, E. Noris

Fungi are an evolutionary hub of viroid-like RNAs that may modulate fungal pathogenicity

B. Navarro, M. Forgia, S. Daghino, A. Babaian, M. de la Peña, M. Turina, F. Di Serio

Non-destructive early detection of wild rocket tracheofusariosis caused by *Fusarium oxysporum* f. sp. *raphani* using infrared imaging

C. Pane, A. Pasqualini, P. Mormile, M. Rippa

Rapid detection of plant pathogenic fungi using a smartphone-based fluorescent array sensor

R. Parlascino, M. Riolo, R. Santonocito, A. Cavallaro, R. Puglisi, A. Pappalardo, F. Aloï, A. Licciardello, N. Tuccitto, G. Trusso Sfrassetto, S. O. Cacciola

Hyperspectral detection of temporal and spatial development of wheat blast disease

G. Quaratiello, L. Pippi, I. Fiaccadori, L. Cotrozzi, J.J. Couture, C.D. Cruz

Characterization of *Fusarium* species diversity causing crown and stalk rot on maize in Northern Italy

M. Sanna, I. Martino, V. Guarnaccia, D. Spadaro, M. Mezzalama

Narrowing down suspects: oomycete species are the best candidate causal agents of Kiwifruit Vine Decline Syndrome

L. Schena, S. Mosca, G. Vizzari, G. E. Agosteo, A. Malacrino

17:30-18:00 **SIPaV “Giovanni Scaramuzzi” 2023 Award**

Chair: P. Battilani (SIPaV President)

18:00-19:00 **“Young researchers in training” session**

Chairs: V. Guarnaccia – D. Turrà

19:00-21:00 Welcome Aperitif

Tuesday, 19th September

9:00-9:30 *Invited talk*

Microbiome innovations to support the ecological transition in agriculture

Gabriele Berg - Institute of Environmental Biotechnology, Graz University of Technology, Graz, Austria

9:30-11:45 **Second session - Innovative approaches to study plant-microbe interactions**

Chairs: R. Baroncelli – S. O. Cacciola

Microbiome experimental evolution for post-harvest disease management

M. M. Aci, N. Z. M. Mohamed, A. Malacrino, L. Schena

Temperature plays a decisive role in the ability of *Pseudomonas syringae* to trigger ETI and drives in planta bacterial growth dynamics

E. Caullireau, N. Ramirez, V.M. Tempo, D. Danzi, C.E. Morris, E. Vandelle

High polyphenolic wheat genotypes: a study on *Fusarium Head Blight* (FHB) resistance

L. Felici, C. Miccoli, S. Turco, F. Castellani, L. Narduzzi, S. Francesconi, A. M. Garcia-Campaña, S. Palombieri, F. Sestili, M. Vitali, G.M. Balestra

Pushing the limits: Land use intensity impacts soil microbiome and the emergence of plant pathogens

M. Idbella, G. Iacomino, G. Bonanomi

Plant-derived volatile organic compounds induce grapevine systemic resistance and direct defence against downy mildew by transcriptional changes

V. Lazazzara, S. Avesani, M. Buti, M. Perazzolli

The seed-associated microbiome: relationship with seedling development in two rainfed rice cultivars from Cameroon

A. D. Nanfack, S. Musonerimana, S. La China, D. Giovanardi, E. Stefani

Small things matter: the contribution of the microbiome to induced systemic resistance along the root-shoot axis

A. Pascale, B. van Beurden, I.A. Stringlis, C.M.J. Pieterse

Role of *Fusarium graminearum* killer proteins (FgKP4L) in the competitive interactions against other *Fusarium* species involved in FHB of wheat

A. Petrucci, S. Iacono, I. Vicente-Munoz, S. Sarrocco

Decipher the communication mediated by lipids entities within the *Xylella fastidiosa* subsp. *pauca* endocrine quorum sensing and paracrin communication with the plant

V. Scala, M. Beccaccioli, N. Pucci, A. Cacciotti, G. Tatulli, M. Scortichini, R. Fiorani, M. Reverberi, S. Loreti

Characterization of the olive endophytic community in genotypes displaying a contrasting response to *Xylella fastidiosa*

M. Vergine, L. De Bellis, A. Luvisi

11:45-12:15 **Coffee break**

12:15-13:15 **Poster session**

13:15-14:00 **Light lunch**

14:00-14:30 *Invited talk*

Principle for the evaluation of the health risk of mycotoxins

Isabelle P. Oswald - Toxalim (Research Centre in Food Toxicology), University of Toulouse, Toulouse, France

14:30-16:30 **Third session - Plant pathogens and food safety**

Chairs: A. Moretti – M. Camardo Leggieri

Antimicrobial and antimycotoxigenic proprieties of *Trametes versicolor* extract against *Fusarium* spp. and *Phytophthora infestans*

M. Beccaccioli, R. S. Fratini, A. Cacciotti, V. Cecchetti, L. Faino, M. Reverberi

Effects of waterlogging and drought stresses on pathogens infection in pomegranate

A. Bolzonello, F. Meggio, A. Pitacco, L. Sella, B. Linaldeddu, R. Musetti, V. Artico, F. Favaron, A. Solla, S. Tundo

Volatile organic compounds (VOCs) as potential biomarkers of *Cadophora luteo-olivacea* presence on kiwifruits

A. Di Francesco, R. Cignola, E. Moret

***Stemphylium vesicarium*, a new fungus associated with hazelnut kernel rot in Italy**

M.I. Drais, F. Brugnati, E. Iezzi, G. Ferracci, S. Turco, A. Mazzaglia

On understanding the arsenal of the EU quarantine plant pathogen *Curtobacterium flaccumfaciens* pv. *flaccumfaciens*: role of a hypothetical serine protease

D. Gaudioso, C. Pastacaldi, C. Beltrami, D. Teper, S. Tegli

Surface adhesion is regulated by HAM-7 and required for full virulence in *Fusarium oxysporum*

V. M. Guastaferrò, S. Vitale, M. Lorito, D. Turrà

***Alternaria* species: a "From Farm to Fork" phytopathological and toxicological global concern**

M. Masiello, S. Somma, A. Moretti

An epiphytic strain of *Stenotrophomonas rhizophila* inhibits growth of *Botrytis cinerea* through the emission of volatile compounds and restricts leaf infection by priming defense genes

A. Raio, F. Brillì, L. Neri, R. Baraldi, F. Orlando, C. Pugliesi, X. Chen, I. Baccelli

***Cadophora luteo-olivacea*: pathogenicity and control strategies on apple and kiwifruit**

S. Tomada, E. Staffler, S. Baric, A. Di Francesco

16:30-17:00 **Coffee break**

17:00-18:30 **General Assembly of SIPaV Members**

20:30 **Social dinner at "La Terra degli Aranci" – Piazzetta S. Stefano, 7, Vomero – Naples**
(Bus transfer for participants)

Wednesday, 20th September

9:30-10:00 **Welcome coffee**

10:00-10:30 **Invited talk**

***Trichoderma* induction of plant defence, a concept beyond the ISR and SAR dichotomy**

Enrique Monte - Agrobiotechnology research institute (CIALE), University of Salamanca, Salamanca (Spain)

10:30-12:45 **Fourth session - Epidemiology and sustainable plant disease management**

Chairs: S. Sarrocco – S. L. Woo

Ecological studies on *Diaporthe eres* and predictive modelling for hazelnut defects: insights to support effective crop protection

M. Camardo Leggieri, R. Arciuolo, P. Battilani

Split to multiply: essential oil emulsions against *Pseudomonas syringae* pv. *actinidiae*

D. Danzi, S. Cremonesi, M. Thomas, M. Bovi, A. Polverari, L. Tosi, M. Bonaconsa, S. Lampis, F. Spinelli, E. Vandelle

Characterization of the causal agents, epidemiology and biological control of white haze on apple

V. Guarnaccia, G. M. E. Remolif, M. Garello, L. Nari, M. Mezzalama, D. Spadaro

Antifungal activity of *Trichoderma*-bioactive extracts for the *in vitro* and *in vivo* inhibition of mycotoxigenic fungi

F. La Spada, M. Riolo, R. Parlascino, F. Aloï, S. El boumlasy, E.I. Rovetto, C. Bua, C. Stracquadanio, C. Luz, G. Meca, A. Pane, S.O. Cacciola

Novel organic methods for preventing *Fusarium* Head Blight (FHB)

C. Miccoli, S. Palombieri, F. Camerlengo, L. Narduzzi, A.L. Ricci, F. Sestili, G. M. Balestra, S. Francesconi

Peptides derived from a *Trichoderma* peptaibol as an alternative method to control fungal diseases of wheat

A. Panichi, F. Sanna, M. De Zotti, S. Tundo, R. Musetti, I. Baccelli, F. Favaron, L. Sella

Effects of biological and chemical treatments against *Heterobasidion* species present in Europe on stump microbial communities

M. Pellicciaro, G. Lione, P. Gonthier

Diversity of *Phytophthora* species in Mediterranean nurseries and best biosecurity management strategies

S. Seddaiu, L. Sarais, A. Mulas, P.A. Ruiu, G. Piras, A. Casula, M. Mallocci, M. Frongia, A. Masci, A. Brandano, A. Deidda, B. Scanu

***Trichoderma arundinaceum* ITB 40837 is a prolific source of nitrogen-containing secondary metabolites**

I. Vicente, A. Staropoli, R. Baroncelli, R. Hermosa, S. Sarrocco, E. Monte, F. Vinale

Desensitization of α -Ste2 signalling in *Fusarium oxysporum* is partially Bar1-independent

S. Vitale, I. Sanchez Tarragona, A. Staropoli, A. Falanga, M. Lorito, D. Turrà, F. Vinale

12:45-13:15 **Best poster awards**

P. Battilani (SIPaV President)

13:15-13:30 **Closing of SIPaV Congress 2023**

P. Battilani - F. Vinale

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