



26[°] SIPaV CONGRESS



SIPaV

Società Italiana di Patologia Vegetale
Italian Phytopathological Society

Virtual Congress
September 15-17
2021

At a Glance

September 15th

September 16th

September 17th

9.00 am		9.00 am	Session 1 Plant-pathogen interactions Dr. Matthew Moscou	9.00 am	Session 3 Innovative approaches to plant disease control Prof. David Collinge
9.45 am		9.50 am	Session 1 Oral Communications	9.50 am	Session 3 Oral Communications
11.00 am		11.10 am	Break	11.10 am	Break
12.00 pm		11.20 am	Session 1 Oral Communications	11.20 am	Session 3 Oral Communications
1.00 pm		1.00 pm	Lunch break	12.40 pm	Lunch break
2.00 pm	Opening of the SIPaV Congress 2021	2.00 pm	Session 2 Plant pathogens and the microbial world Dr. Roeland Berendsen	2.00 pm	Tavola Rotonda Il Piano Nazionale della Ricerca - PNR 2021/27
2.30 pm	Opening Lecture Prof. Cindy Morris	2.50 pm	Session 2 Oral Communications	3.30 pm	Closing of Poster Session and Break for the Meeting of Poster Evaluation Committee
3.20 pm	SIPaV Award "Giovanni Scaramuzzi" 2020-2021	2.50 pm	Parallel Session New tools for pathogen detection and characterization - Oral Communications	3.45 pm	Best Poster Award
4.00 pm	Break	4.10 pm	Break	4.00 pm	General Assembly of SIPaV Members
4.15 pm	Young Researchers in training	4.20 pm	Session 2 Oral Communications	6.30 pm	Conclusions and closing of SIPaV Congress 2021
5.15 pm	Break	4.20 pm	Parallel Session New tools for pathogen detection and characterization - Oral Communications		
5.30 pm	Young Researchers in training				
6.30 pm	End of scientific session	5.40 pm	End of scientific sessions		

* Poster Session is open for the whole duration of the Congress



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Scientific programme

Poster Session is open for the whole duration of the Congress

PROGRAMME

Wednesday, September 15th

- 2.00 pm Opening of the 26° SIPaV 2021 Congress and Welcome address
- 2.30 pm **Opening Lecture**
Prof. Cindy Morris
INRAE Unité de Recherches de Pathologie Végétale – Montfavet, France.
“Toward innovation in plant health management via an eco-evolutionary perspective on the life history of plant pathogens”
- 3.20 pm SIPaV Award “Giovanni Scaramuzzi” 2020 and 2021
- 4.00 pm Break
- 4.15 pm **Young Researchers in training**
Chairpersons: Cindy Morris, Annalisa Polverari
The Role of Crz1 Transcription Factor in Fusarium Verticillioides – Zea Mays Interaction
A. Caciotti, M. Beccaccioli, V. Scala, M. Reverberi
Characterization of an effector gene in Fusarium oxysporum
A. Doddi, M. Rep, M. Reverberi, L. Faino
A tomato-Trichoderma-Phytophthora model system for studying plant-microorganisms interactions
S. El Boumlasy, F. La Spada, E.I. Rovetto, A. Pane, M. Riolo, F. Aloï, R. Parlascino, M. Franco, S.O. Cacciola
UAV-based thermal, RGB imaging and gene expression analysis allowed detection of Fusarium head blight and gave new insights into the physiological responses to the disease in durum wheat
S. Francesconi, M. Maesano, A. Harfouche, G. M. Balestra
- 5.15 pm Break

PROGRAMME
Wednesday, September 15th

5.30 pm **Young Researchers in training**
Chairpersons: **Cindy Morris, Annalisa Polverari**

Transgenic strawberry (*Fragaria x ananassa*) plants with a mannose binding lectin gene (FaMBL1) showed resistance to strawberry fungal diseases
L. Ma, F. Negrini, Z. Haile, D. Gebremichael, E. Baraldi

Monitoring wild rocket fusarium wilting by applying deep learning model to hyperspectral data
G. Manganiello, F. Carotenuto, N. Nicastro, T. Cardì, C. Pane

Morphological, physiological and molecular characterization of *Monostichella coryli*, the causal agent of hazelnut anthracnose
M. I. Drais, A. Faluschi, Silvia Turco, L. Varvaro, V. Cristofori, A. Mazzaglia

An effective low environmental impact strategy for controlling citrus green mold by a new natural biostimulant and reduced doses of Imazalil
E. I. Rovetto, F. La Spada, S. El boumlasy, A. Pane, F. Aloï, M. Riolo, S.O. Cacciola

6.30 pm End of scientific session

From 6.30 pm to 7.30 pm Book your slot with Dr. Cindy Morris

PROGRAMME

Thursday, September 16th

9.00 am **Session 1**
Plant-pathogen interactions

Dr. Matthew Moscou

The Sainsbury Laboratory, Norwich, UK.

“Emerging views on the molecular basis of nonhost resistance”

9.50 am **Session 1 | Oral Communications**
Chairpersons: **Matthew Moscou, Elodie Vandelle**

Botrytis cinerea cleaves a grapevine chitinase decreasing its enzymatic activity and impairing the detrimental effect on fungal growth

A. Bolzonello, S. Tundo, R. Marcato, C. Castiglioni, S. Odorizzi, S. Vincenzi, L. Sella, F. Favaron

Insect vectors proteins interact with the immunodominant membrane protein Imp of Flavescence dorée phytoplasma

L. Galetto, S. Abbà, L. Cerone, S. Palmano, M. Rossi, C. Marzachi

Double-Stranded RNA Targeting Dicer-Like Genes Compromises the Pathogenicity of Plasmopara viticola on Grapevine

Z. M. Haile, **D. Endale Gebremichael**, L. Capriotti, B. Molesini, F. Negrini, M. Collina, S. Sabbadini, B. Mezzetti, E. Baraldi

First detection of Colletotrichum acutatum and C. cigarro in a germplasm olive collection in Sicily and analysis of cultivar susceptibility in open field and in vitro

G. Licciardello, J. Moral, M. C. Strano, P. Caruso, M. Sciara, P. Bella, G. Sorrentino, S. Di Silvestro

11.10 pm **Break**

PROGRAMME

Thursday, September 16th

11.20 am **Session 1 | Oral Communications**
Chairpersons: **Matthew Moscou, Elodie Vandelle**

Analysis of volatilome and proteome responses of two differently resistant *Phaseolus vulgaris* genotypes interacting with *Colletotrichum lindemuthianum*

I. Mancini, M. M. Monti, L. Gualtieri, G. Domingo, M. Beccaccioli, M. Heil, M. Bracale, F. Loreto, **M. Ruocco**

Type III secretion system enhancement by plant extracts drives host vs non-host plant-bacteria interaction outcome

M.R. Puttilli, C. Correia, D. Danzi, F. Spinelli, C. Santos, A. Polverari, **E. Vandelle**

Role of lipid signals in the bacterial-plant pathogen *Xylella fastidiosa* dual state and during the interaction with the host

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

Grapevine Pinot gris virus (GPGV) sequence and Grapevine Leaf Mottling and Deformation (GLMD) disease severity: searching for the link

G. Tarquini, P. Ermacora, G. Firrao

Subcellular responses of wheat epidermal cells to *Zymoseptoria tritici*

F. Valente, C. Rodrigues, E. Wallington, D. Herring, G. Thomas, J. Metz, A. Greenland, G. Romana, K. Haynes, P. J. Hussey, M. J. Deeks

1.00 pm **Lunch Break**

From 1.00 pm to 2.00 pm Book your slot with Dr. Matthew Moscou

- 2.00 pm **Session 2**
Plant pathogens and the microbial world
Dr. Roeland Berendsen
Department of Biology, Utrecht University, The Netherlands.
"Soil-borne legacies of plant disease"
- 2.50 pm **Session 2 | Oral Communications**
Chairpersons: **Roeland Berendsen, Davide Spadaro**
- Trellis systems of mother vines impact the wood resident microbiome of two grapevine rootstocks cultivars
E. Battiston, L. Borruso, C. Pinto, T. Mimmo, S. Cesco, S. Di Marco, L. Mugnai
- Exploring ennatin B effect and its association with deoxynivalenol on bread wheat tissues and on the development of *Fusarium* species
G. Beccari, L. Ederli, I. Bergamini, F. Tini, L. Covarelli
- Signals produced by rhizosphere-living bacteria affect the behaviour of *Lysobacter capsici* AZ78, a promising bacterial biocontrol agent
A. Bejarano Ramos, M. Perazzolli, I. Perto, G. Puopolo
- Garden fungi that can protect horticultural plants from root rot caused by *Armillaria mellea*
J. Drakulic, H. Rees, N. Bashir, M. Cromey, G. Foster, A. Bailey, L. Beal
- 4.10 pm **Break**

4.20 pm **Session 2 | Oral Communications**
Chairpersons: **Roeland Berendsen, Davide Spadaro**

Enhancement of agri-food oil by-products using beneficial Microorganisms
L. Gioia, S. Lanzuise, A. Bottiglieri, A. Sicari, E. Monte, R. Hermos, S.L.Woo

A novel strategy to obtain Trichoderma beneficial strains
A. Pironti, R. Marra, A. Staropoli, G. Manganiello, N. Lombardi, F. Vinale, S.L. Woo, M. Lorito

Microbiome composition provides a powerful tool to elucidate the epidemiology of postharvest diseases of apples
D. Spadaro, M. Garelo, S. Prencipe, E. Piombo, G. Schiavon, M. Wisniewski, S. Droby

Plant-microbe-environmental interaction under the soil: the case of kiwifruit vine decline in Italy
G. Tacconi, L. Tosi, M. Giannini, S. Serra, V. Michelotti, A. Lamontanara, L. Orrù

2.50 pm **Parallel Session | Oral Communications**

New tools for pathogen detection and characterization
Chairpersons: **Massimo Reverberi, Paolo Cortesi**

Phytopathogenic fungi threaten the Quercus genus in a coastal forest: detection of fungal diversity by Nanopore Sequencing
M. Beccaccioli, V. Cecchetti, L. Faino, M. Reverberi

Machine Learning for predicting mycotoxin Occurrence in Maize
M. Camardo Leggiari, M. Mazzoni, P. Battilani

Evolution of mini chromosomes in Fusarium verticillioides
A. Grottoli, **L. Faino**, M. Beccaccioli, V. Scala, N. Ferrante, B. Massimo, M. Aragona, R. S. Fratini, M. Reverberi

Emerging fungal pathogens causing foliar diseases of blueberry in Italy

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

4.10 pm Break

4.20 pm Parallel Session | Oral Communications

New tools for pathogen detection and characterization

Chairpersons: **Massimo Reverberi, Paolo Cortesi**

Identification by serological detection methods and molecular characterization of citrus concave gum-associated virus in citrus and apple trees in Italy

M. Minutolo, M. Cinque, B. Navarro, D. Alioto, F. Di Serio

Hyperspectral and thermal imaging to oversee the trichoderma biocontrol efficacy against fusarium oxysporum f. sp. lactucae

G. Manganiello, N. Nicastro, L. Ortenzi, C. Costa, F. Pallottino, T. Cardi, **C. Pane**

Looking at bacterial genomes through a nanopore-size lens

S. Turco, M.I. Drajs, L. Zuppante, A. Mazzaglia

Searching for mycoviruses in two collections of Fusarium fungi using metagenomics

J. Zhang, F. Cuppone, R. Baroncelli, A. Prodi, C. Ratti

5.40 pm End of scientific sessions

From 5.40 pm to 6.40 pm Book your slot with Dr. Roeland Berendsen

- 9.00 am **Session 3**
Innovative approaches to plant disease control
Prof. David Collinge
Department of Plant and Environmental Sciences & Copenhagen Plant Science Centre, University of Copenhagen, Denmark
“Contrasting approaches to disease control in plants from transgenic plants to endophytic fungi”
- 9.50 am **Session 3 | Oral Communications**
Chairpersons: **Davide Collinge, Sabrina Sarrocco**
- Gliotoxin effect on *Alternaria* sp. a competitive advantage through the bisdethiobis (methylthio) gliotoxin production
D. Bulgari, G. Ribauda, A. Gianoncelli, E. Gobbi
- Induction of resistance and enhancing agronomic performance in grapevines under greenhouse and in open fields by applications of plasma activated water
N. Contaldo, Y. Zambon, R. Laurita, M. Gherardi, V. Colombo, A. Bertaccini
- Exploitation of the resistance/susceptibility mechanism of *Vitis vinifera* for the control of grapevine downy mildew
S. Toffolatti, D. Marcianò, G. Maddalena, E. Marone Fassolo, D. Maghradze, D. Fracassetti, A. Tirelli, P.A. Bianco, O. Failla, P. Casati, A. Passera, V. Ricciardi, G. De Lorenzis
- The good, the bad and the ugly: how volatile organic compounds (VOCs) produced by *Trichoderma* spp. protect grapevine plants against downy mildew
V. Lazazzara, B. Vicelli, C. Bueschl, A. Parich, I. Pertot, R. Schuhmacher, M. Perazzolli
- 11.10 am **Break**

11.20 am **Session 3 | Oral Communications**
Chairpersons: **David Collinge, Sabrina Sarrocco**

Prospecting algae and cyanobacteria as bioprotectants for plant disease control

H. Righini, O. Francioso, M. Di Foggia, A. Martel Quintana, R. Roberti

Tomato fruit: friend or foe? Lessons learnt on emerging safety issues

S. Sanzani, F. Djenane, T. Gallone, N. Admane, G. Cavallo, O. Incerti, F. Garganese, A. Mincuzzi, A.G. Caruso, M. Amenduni, A. Ippolito

Peptides obtained by targeted modifications of a natural Trichoderma peptaibol protect plants from grey mold disease and downy mildew

L. Sella, M. De Zotti, A. Bolzonello, S. Tundo, S. Luti, R. Bernardi, F. Favaron, I. Baccelli

Endophytic Beauveria bassiana as a dual biocontrol agent for the control of tomato pests or pathogens and plant biostimulant

M. Sinno, I. Di Lelio, M. Ranesi, G. Iacomino, F. Pennacchio, M. C. Digilio, S. L. Woo

12.40 pm **Lunch Break**

From 12.40 pm to 1.40 pm Book your slot with Dr. David Collinge

PROGRAMME

Friday, September 17th

2.00 pm **Tavola Rotonda**

Il Piano Nazionale della Ricerca - PNR 2021/27

Invitati:

Prof. Maurizio Borin

Dipartimento di Agronomia, Animali, Alimenti, Risorse naturali e Ambiente (DAFNAE), Università di Padova

Prof. Angelo Riccaboni

Dipartimento Studi aziendali e giuridici, Università di Siena

Coordinatori dei Gruppi di Esperti per la Redazione delle sottotematiche:

- Conoscenza e gestione sostenibile dei sistemi agricoli e forestali
- Bioindustria per la bioeconomia

3.30 pm Closing of Poster Session and Break for the Meeting of Poster Evaluation Committee

3.45 pm Best Poster Award

4.00 pm General Assembly of SIPaV Members

6.30 pm Conclusions and closing of the 26° SIPaV Congress 2021

The Scientific Committee

Annalisa Polverari
Elodie Vandelle
Matteo Lorito
Massimo Reverberi
Paolo Cortesi
Sabrina Sarrocco

The Organizing Committee

Annalisa Polverari, Co-chair
Elodie Vandelle, Co-chair
Matteo Lorito
Roberta Marra
Davide Danzi
Vanessa Maurizio
Emma Caullireau
Alice Baroni



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