



SIPaV
Società Italiana di Patologia Vegetale
Italian Phytopathological Society



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XXIV National Congress
Italian Phytopathological Society
Ancona, 5-7 September, 2018

THIRD ANNOUNCEMENT

Dear Colleagues

It is with great pleasure that we announce that the XXIV Congress of the Italian Phytopathological Society (SIPaV) is being organized by the Department of Agricultural, Food and Environmental Sciences (D3A) of the Marche Polytechnic University, and will be held in Ancona from 5th to 7th September, 2018.

During the first day of the Congress, there will be the assignment of the “SIPaV “Giovanni Scaramuzzi” 2018 Awards for PhD students, and a special session managed by young researchers called “Factory of Ideas”. This will include selected contributions for the Young Researcher Award funded by SIPaV, to promote the participation of young scientists. The first day will be closed after a light dinner with informal talks by two Italian phytopathologists with distinguished careers (POD - Phytopathologists of Distinction - Talks), Prof. Ruggero Osler and Prof. Felice Scala, who will give the audience tips for their academic career.

The second day will open with a joint session of SIPaV and the American Phytopathological Society (APS) on “Emerging and re-emerging plant pathogens”, where Prof. Lindsey du Toit and Prof. Gary Munkvold for APS, and Prof. Santa Olga Cacciola and Dr. Sabrina Palmano for SIPaV, will focus on seedborne fungi, viruses and viroids, grapevine phytoplasma, and soil-borne pathogens. The invited speaker is Dr Xavier Foissac, who will show the audience the latest findings on phytoplasma–host(s) interactions. The day will see further presentations, lunch and poster sessions, and in the afternoon, the SIPaV annual Assembly; finally the Gala Dinner will take place in the evening. The third day will open with the last invited speaker, Prof. Davide Bulgarelli, who will talk on the interactions of the root microbiome with biotic and abiotic stress; then the Congress will draw to a close at noon.

Two particular events will be connected with the SIPaV Congress: (a) the Course on Patents, which is planned for the morning of 5 September, with an Academic speaker and an expert working in the field as consultant; (b) a visit to the experimental trials in vineyards affected by esca disease, Bois noir and downy mildew, which is planned for the afternoon and evening of 7 September, followed by tasting of organic and vegan wines at Offida (AP).



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LOCATION OF CONGRESS

Aula Azzurra, Marche Polytechnic University, Via Breccie Bianche, 20, 60131 Ancona (43°35'7.24"N, 13°30'54.45"E)

CONFERENCE PROGRAMME

Wednesday 5th September

1.30-2.30 pm: Registration of participants and posters set up

2.30-3.00 pm: Opening of the SIPaV 2018 Congress and Welcome Address

3.00-4.30 pm: Session I – Phytoplasma diseases (*Chairs* Piero Attilio Bianco and Rita Musetti)

3.00-3.30 pm: Invited talk

Variability and function of Vmp adhesion related proteins give insight into the emergence of phytoplasma epidemics. S. Malembic-Maher, D. Desque, P. Salar, J.L. Danet, S. Duret, M.P. Dubrana, B. Batailler, J. Jović, S. Krnjajić, E. Angelini, L. Filippin, M. Monticone, D. Bosco, I. Ember, M. Kolber, M. Della Bartola, A. Materazzi, M. Maixner, L. Beven, J. Renaudin, N. Arricau-Bouvery, X. Foissac

3.30-4.30 pm

Detection of ‘*Candidatus Phytoplasma solani*’ in roots from Bois noir symptomatic and recovered grapevines. L. Landi, S. Murolo, G. Romanazzi

Clues on the epidemiology of 16SrV-C phytoplasma on *Spartium junceum* in Sicily. S. Rizza, D. Di Pietro, V. D’Urso, C. Marzachi, M. Tessitori

Metagenome analyses reveal microbiota changes in *Citrus sinensis* affected by citrus decline disease in Iran. A. Passera, H. Alizadeh, M. Azadvar, F. Quaglino, A. Alizadeh, P. Casati, P.A. Bianco

Synthetic elicitors affect *Hyalesthes obsoletus* behavioral responses. P. Riolo, R. L. Minuz, V. Mancini, S. Ruschioni, G. Romanazzi, N. Isidoro

4.30-5.00 pm: Coffee break

5.00-5.30 pm: Session II – Forest pathology (*Chairs* Paolo Capretti and Angelo Mazzaglia)

Assessing the seasonal patterns of spore deposition of *Gnomoniopsis castaneae* in some chestnut orchards in northern Italy. L. Giordano, G. Lione, F. Sillo, P. Gonthier

Early warning methods for forest pathogens: a case study on pine canker. N. Luchi, P. Bartolini, F. Pecori, A.L. Pepori, A. Santini

5.30-6.00 pm: SIPaV “Giovanni Scaramuzzi 2018” Award (*Chairs* Maria Lodovica Gullino and Luisa Rubino)

6.00-7.00 pm: Factory of Ideas - Young Researcher Session (*Chairs* Alessandra Di Francesco and Valeria Mancini)

***Diaporthe* spp. associated to defected hazelnuts in Turkey.** R. Arciuolo, G. Chiusa, N. Spigolon, G. Castello, P. Battilani

***Pseudomonas corrugata* genome mining reveals a LuxR ‘solo’ with a role in virulence in tomato.** A. Anzalone, G. Licciardello, C. Strano, P. Bella, I. Bertani, V. Venturi, V. Catara

Sphingolipids in *Fusarium verticillioides* – *Zea mays* interaction. M. Beccaccioli, M. Salustri, A. Grottoli, M. Ludovici, V. Scala, M. Reverberi



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Evaluation of the antagonistic activity of *Bacillus amyloliquefaciens* against fungal pathogens of wheat. R. Caracciolo, J. Cabrefiga, I. Mora, A. Fabi, E. Montesinos, L. Varvaro
Spread and stability of Tomato yellow leaf curl virus – IL23 in Sicily and partial displacement of its parental. A. G. Caruso, S. Panno, S. Davino

Study on bio-morphological and ultra-structural effects caused by onion yellow dwarf virus infection in “Rossa di Tropea” onion bulb. G. Micali, A. Tiberini, A. Lupini, A. Ciampa, I. Inzucchi, L. Tomassoli, M. T. Dell’Abate, G. Albanese

Morphological and molecular identification of seedborne fungi in squash (*Cucurbita maxima*). M. Mounni, M. B. Allagui, V. Mancini, S. Murolo, N. Tarchoun, G. Romanazzi

Metagenomic analysis of the aerial mycobiome of rice paddies. S. Franco Ortega, I. Ferrocino, S. Silvestri, I. Adams, D. Spadaro, M. L. Gullino, N. Boonham

Role of gluconic acid in the biocontrol activity of *Pseudomonas fluorescens* strain CHA0 against *Fusarium oxysporum*. D. Palmieri, G. Barone, F. De Curtis, G. Lima

Enzymes production by solid state fermentation of *Cryphonectria parasitica* on agro-industrial residue. S. Savino, E. Monti, E. Gobbi

Characterization of endophytic fungi isolated from grapevines by matrix-assisted laser desorption time-of-flight mass spectrometry (Maldi-Tof MS). A. Tóth, Cs. Kovács, E. Sándor

The expression of TAXI-I and TAXI-III xylanase inhibitors and of a *Fusarium graminearum* xylanase increases plant resistance to bacterial and fungal pathogens. S. Tundo, M. C. Paccanaro, L. Sella, I. Elmaghraby, I. Moschetti, R. D’Ovidio, F. Favaron

7.15 pm: **SIPaV High School Award, I Edition “Teach me as to take care for a plant (*Insegnami a curare una pianta*)”**

7.30 pm: Light welcome dinner and poster viewing

8.45-9.30 pm: “POD Talks” (*Chair* Gianfranco Romanazzi)

Ruggero Osler, Felice Scala

Thursday 6th September

9.00 am-11.00 am: Join Session SIPaV-APS about “Emerging and re-emerging plant pathogens” (*Chairs* Maria Lodovica Gullino Gullino and Lindsey du Toit)

Case studies of the complexity of seedborne and seed transmitted fungi affecting regional and global seed trade. L.J. du Toit, J.C. Correll

Seed transmission of viruses and viroids: implications for global seed movement. G. Munkvold, T. Pitman, and B. Falk

Emerging soilborne plant diseases caused by fungi and oomycetes in Italy. S.O. Cacciola

Grapevine Flavescence dorée: still a threat to European viticulture. S. Palmano, L. Galetto, D. Bosco, C. Marzachi

11.00-11.30 am: Coffee break

11.30-12.15 am: Session III – *Xylella fastidiosa* (*Chairs* Giovanni Paolo Martelli and Stefania Loreti)

Media monitoring to identify emerging plant health risks: the case of *Xylella fastidiosa*. F. Ferilli, G. Stancanelli, J. Linge, M.R. Mannino

***Xylella fastidiosa* subsp. *pauca* strain De Donno: a lipidomic point of view.** V. Scala, M. Reverberi, M. Salustri, N. Pucci, V. Modesti, S. Lucchesi, S. Loreti



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Field experiments for the containment of the spread of *Xylella fastidiosa* in olive orchards

C. Dongiovanni, M. Di Carolo, G. Fumarola, D. Tauro, A. Ciniero, G. Altamura, F. Palmisano, V. Cavalieri

12.15 am-1.00 pm: Session IV – Mycotoxigenic fungi (*Chairs* Massimo Reverberi and Sabrina Sarrocco)

Occurrence of mycotoxigenic fungi on chestnut and hazelnut and management strategies.

D. Spadaro, S. Prencipe, S. Valente, E. Piombo, A. Garibaldi, M. L. Gullino

***Fusarium graminearum* cerato-platanin proteins weaken cellulosic materials and enhance cellulase activity in an expansin-like manner.** A. Quarantin, C. Castiglioni, F. Favaron, L. Sella

Effect of soft wheat infection timing on the development of *Fusarium* head blight causal agents and on the accumulation of secondary metabolites in the kernels. G. Beccari, C. Arellano, L. Covarelli, F. Tini, M. Sulyok, C. Cowger

1.00-2.30 pm: Lunch and Poster Session

2.30-3.45 pm: Session V – Host-pathogen interactions (*Chairs* Matteo Lorito and Annalisa Polverari)

Abiotic factors effecting grapevine trunk disease incidence between vineyards in the Tokaj wine region, Hungary. C. Kovács^{1,2}, P. Balling³, Z. Bihari³, A. Nagy⁴, E. Sándor
Fungal effector-omics in the genomics “era”: *Verticillium* and *Fusarium* study case. J. Li, B.P.H.J. Thomma, L. Faino

Multifaceted chatting between *Trichoderma* and the plant. M. Ruocco, M.M. Monti, L. Gualtieri, M. De Palma, N. D’Agostino, M. Chiurazzi, L. Navazio, M. Tucci, M. Lorito
N-Acetyl cysteine-loaded chitosan nanoparticles to control oxidative stress in durum wheat. V. Picchi, S. Gobbi, M. Fattizzo, F. Faoro

Hyperspectral reflectance, an innovative and useful tool for stress detection in plants. L. Cotrozzi, E. Pellegrini, J.J. Couture, C.D. Cruz, C. Nali, G. Lorenzini

3.45-4.30 pm: Session VI – Plant viruses (*Chairs* Salvatore Davino and Sergio Murolo)

Where virus taxonomy is heading to. L. Rubino, G.P. Martelli

Occurrence of viral pathogens and *Pseudoperonospora humuli* in hop plants in Italy. L. Ferretti, M. Luigi, F. Faggioli, A. Haegi

Two negative-stranded RNA viruses with unusual molecular features recently identified in citrus in Italy. B. Navarro, M. Minutolo, S. Zicca, M. Saponari, D. Alioto, F. Di Serio

Rapid and sensitive detection of onion yellow dwarf virus and iris yellow spot virus by reverse transcription loop-mediated isothermal amplification on ‘Rossa di Tropea’ onion. A. Tiberini, G. Micali, A. Mangli, G. Leo, G. Albanese, L. Tomassoli

4.45-5.15 pm: Coffee break

5.15-7:15 pm: General Assembly of SIPaV Members

8.00 pm: Gala Dinner at the Fortino Napoleonico (<http://www.hotelfortino.it>) (43°33'54.43"N, 13°35'33.43"E)



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Friday 7th September

9.00-10.15 am: Session VII – Disease management (*Chairs* Franco Faretra and Slaven Zjalić)

9.00-9.30 am Invited talk

Defining the host genetic control of the rhizosphere bacterial microbiota: a key to enhance plant adaptation to biotic and abiotic stresses. R. Alegria Terrazas, S. Robertson-Albertyn, L. Pietrangelo, R. Sharma, D. Bulgarelli

9.30 – 10.15 am

Resistance to the downy mildew agent in the Eurasian grapevine germplasm of Georgia (Caucasus). S.L. Toffolatti, G. De Lorenzis, G. Maddalena, A. Costa, P. Casati, O. Failla, D. Maghradze, F. Quaglino

Comparative effectiveness of phosphonate fungicides, calcium oxide and reduced doses of copper hydroxide for managing *Phytophthora* brown rot of citrus fruit. F. La Spada, S.O. Cacciola, A. Pane, F. Aloj, C. Stracquadanio, M.G. Li Destri Nicosia, G. Magnano di San Lio

Leafhoppers in the vineyard, preliminary data about their possible implication in grapevine leaf mottling and deformation epidemiology. V. Gualandri, F. Ghidoni, M. Benazzoli, C. Duso, V. Malagnini, F. Pedrazzoli, G. Angeli

10.15-10.45 am: Coffee break

10.45-11.45 am: Session VIII – Innovative tools in detection and molecular characterization (*Chairs* Giuseppe Lima and Giorgio Gambino)

New genetic resources for the causal agents of brown rot on stone fruits, *Monilinia fructicola*, *Monilinia laxa* and *Monilinia fructigena*. R.M. De Miccolis Angelini, D. Abate, S. Pollastro, C. Rotolo, D. Gerin, F. Faretra

Structure and dynamics of airborne fungal populations in organic and conventional vineyards. A. Abdelfattah, A. Ippolito, M. Wisniewski, S. Pangallo, S. Scibetta, S. Mosca, M.G. Li Destri Nicosia, G.E. Agosteo, G. Magnano Di San Lio, S.O. Cacciola, L. Schena

A new real-time loop-mediated isothermal amplification (LAMP) assay to rapidly detect *Phytophthora ramorum* and *P. lateralis* invasive plant pathogens. C. Aglietti, A. Santini, P. Bartolini, P. Capretti, N. Luchi

Environmental genomics reveals the diversity of *Phytophthora* populations in phytocoenoses of “Complesso Speleologico Villasmundo-S. Alfio” Natural Reserve in Sicily. F. Aloj, A. Pane, F. La Spada, M. Evoli, R. Faedda, C. Stracquadanio, L. Schena, S.O. Cacciola

11.45-12.00 am: Close of the SIPaV 2018 Congress



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POSTERS

Posters have to be prepared in a format that does not exceed 90 × 70 cm (h × w). They will be exhibited for the full length of the Congress, as listed below. Participants to “Factory of Ideas - Young Researcher Session” will also show briefly (3 min + 2 min for 1-2 questions) their results with 3-4 slides.

1. **The Apulia Region-funded Pilot Study: “Silver Bullet against *Xylella fastidiosa*” (SIX).** C. Altomare, S.L. Woo, E. Comite, G. Bleve, A. Gallo, M. Lorito
2. **Antimicrobial photodynamic treatment against plant pathogens: the power of anionic porphyrin against the grey mold agent (*Botrytis cinerea*).** V. Ambrosini, M. Issawi, V. Sol, C. Riou
3. **Change of activity of antioxidant enzymes under stress conditions of the environment.** A. Zh. Amirkulova, G. Romanazzi, G.V. Kurbanova, O.V Chebonenko
4. **Pathogenic endophytic fungi in transplanting poplar plants.** N. Anselmi, A. Giorcelli
5. ***Pseudomonas corrugata* genome mining reveals a LuxR ‘solo’ with a role in virulence in tomato.** A. Anzalone, G. Licciardello, C. Strano, P. Bella, I. Bertani, V. Venturi, V. Catara
6. ***Diaporthe* spp. associated with defected hazelnuts in Turkey.** R. Arciuolo, G. Chiusa, N. Spigolon, G. Castello, P. Battilani
7. **Development of a novel molecular tool to trace the invasive pathogen *Xylella fastidiosa* subsp. *pauca* in the olive European outbreak.** G.M. Balestra, M. Tatì, M.C. Taratufolo, Y. Jundi Rahi, V. Tagliavento, S. Ciarroni, A. Mazzaglia
8. **Selection and characterization of beneficial bacteria and seed bacterization of leguminosae as a biocontrol strategy against *Rhizoctonia solani* damping-off.** A. Barberio, D. Palmieri, G. Barone, C. Del Grosso, G. Lima, F. De Curtis
9. **Identification of candidate genes involved in resistance to *Fusarium* wilt race 0 in chickpea.** G. Barone, J.V. Die, F. De Curtis, J. Rubio, D. Palmieri, G. Lima, T. Millàn
10. **Innovative delivery of Cu(II) ions by a nano-structured hydroxyapatite to enhance the sustainable control of *Plasmopara viticola*.** E. Battiston, L. Antonielli, S. Di Marco, F. Fontaine, L. Mugnai
11. **Sphingolipids in *Fusarium verticillioides* – *Zea mays* interaction.** M. Beccaccioli, M. Salustri, A. Grottoli, M. Ludovici, V. Scala, M. Reverberi
12. **Effect of soft wheat infection timing on the development of *Fusarium* head blight causal agents and on the accumulation of secondary metabolites in the kernels.** G. Beccari, C. Arellano, L. Covarelli, F. Tini, M. Sulyok, C. Cowger
13. **Phytopathological problems associated with quinoa (*Chenopodium quinoa* Willd.) seed production in an area of central Italy.** G. Beccari, M. Quaglia, E. Pannacci, F. Damiani, L. Covarelli
14. **Ecophysiological response of pomegranate plants under long-term combined salt and ozone stress.** A. Calzone, A. Podda, G. Lorenzini, B. Maserti, C. Nali, E. Pellegrini, M. Tonelli, E. Carrari, Y. Hoshika, E. Paoletti



15. **Coexistence of *Caliciopsis pinea* and *Fusarium circinatum* on pine: interactions among fungal pathogens.** P. Capretti, D. Migliorini, J. Diez Casero, P. Martínez-Álvarez, N. Luchi
16. **Evaluation of the antagonistic activity of *Bacillus amyloliquefaciens* against fungal pathogens of wheat.** R. Caracciolo, J. Cabrefiga, I. Mora, A. Fabi, E. Montesinos, L. Varvaro
17. **Spread and stability of tomato yellow leaf curl virus – IL in Sicily and partial displacement of its parental.** A.G. Caruso, S. Panno, S. Davino
18. **Occurrence of *Erwinia amylovora* foci in Sicily twenty years after eradication.** V. Catara, P. Bella, A. Caruso, G. Conti Nibali, N. Pucci, S. Loreti, G. Cavallaro, R. Fisicaro, G. Greco, V. Sinatra, D. Carta Cerrella, F. Conti
19. **Application of native *Trichoderma* spp. to confer suppressiveness to nursery potting mixes.** G. Chilosi, M.P. Aleandri, C. Morales-Rodriguez, A.M. Vettrano, E. Luccioli, A. Vannini
20. **Non-conventional compounds against powdery mildew: profiling grapevine phyllobiome and elicited defence responses.** W. Chitarra, C. Pagliarani, L. Nerva, M. Monchiero, S. Gonthier, M. Pugliese, M.L. Gullino, G. Gambino
21. **Epidemiological survey on ‘*Candidatus Phytoplasma solani*’ and putative vectors in western Sicily.** G. Conigliaro, G. Lo Verde, P. Bella, S. Giambra, G. Romanazzi, V. D’Urso, H. Tsolakis, S. Burrzano
22. **Evaluations on the effects of phenylpyrrole fungicides in *Botrytis cinerea* by RNA-Seq transcriptome analysis.** R.M. De Miccolis Angelini, C. Rotolo, S. Pollastro, F. Faretra
23. **New insights into biology, transcriptome analysis and control strategies of the cucurbit pathogen *Podosphaera xanthii*.** R.M. De Miccolis Angelini, S. Pollastro, P.R. Rotondo, C. Dongiovanni, C. Laguardia, D. Abate, C. Rotolo, F. Faretra
24. **Effectiveness of biocontrol rhizobacteria and a new natural organic fertilizer against soilborne pathogens on pot grown ornamental plants.** C. Del Grosso, C.G. Chavez Duran, D. Palmieri, D. Vitullo, C. Stracquadanio, F. De Curtis, S.O. Cacciola, G. Lima
25. **Effect of *Aureobasidium pullulans* strains against *Botrytis cinerea* on kiwifruit during storage and on fruit nutritional composition.** A. Di Francesco, M. Mari, E. Baraldi
26. **Effectiveness against strawberry postharvest decay of volatile organic compounds produced by biocontrol agents.** E. Feliziani, L. Oro, M. Ciani, G. Romanazzi, F. Comitini
27. **Effects of preharvest and postharvest fungicide applications for the control of gray mold on postharvest decay of strawberries and on fungicide residues on the fruit.** E. Feliziani, E. Monaci, L. Landi, S. Mattei, C. Vischetti, G. Romanazzi
28. **Metagenomic detection of viruses and viroids associated with isolates of citrus tristeza virus.** R. Ferraro, G. Scuderi, M. Russo, A. Catara, G. Licciardello
29. **Foliar fungal diseases in different cultivars of durum wheat in the Marche region.** G. Ferroni, S. Nardi, G. Mazzieri, C. Governatori, A. Peticarà, R. Foglia, G. Romanazzi



30. **Impact on olive oil quality of olive leaf yellowing associated virus (OLYaV).** A. Fontana, A. Piscopo, A. De Bruno, A. Tiberini, I. Muzzalupo, G. Albanese
31. **Phenotypic and genotypic studies to evaluate Fusarium Head Blight Type I and Type II resistances in Italian wheat cultivars.** S. Francesconi, A. Mazzaglia, G.M. Balestra
32. **A new method for testing rice seeds, detection of *Magnaporthe oryzae* and *Fusarium fujikuroi* by loop-mediated isothermal amplification.** S. Franco Ortega, J. Tomlinson, J. Hodgetts, D. Spadaro, M.L. Gullino, N. Boonham
33. **Characterization of the secondary metabolite profile and phylogenetic analysis of *Alternaria* species isolated from basil.** S. Franco Ortega, I. Siciliano, G. Gilardi, P. Bosio, A. Garibaldi, M.L. Gullino,
34. **Detection of *Fusarium oxysporum* f. sp. *lactucae* in soil, lettuce seeds and plants by LAMP assay.** S. Franco Ortega, J. Tomlinson, G. Gilardi, D. Spadaro, M.L. Gullino, A. Garibaldi, N. Boonham
35. **Metagenomic analysis of the aerial mycobiome of rice paddies.** S. Franco Ortega, I. Ferrocino, S. Silvestri, I. Adams, D. Spadaro, M.L. Gullino, N. Boonham
36. **Rapid detection of *Monilinia fructicola* and *Monilinia laxa* on nectarines through loop-mediated isothermal amplification.** S. Franco Ortega, J. Tomlinson, D. Spadaro, M.L. Gullino, N. Boonham
37. **Evaluation of the potential vector role for the alien planthopper *Ricania speculum* in Flavescence dorée phytoplasma epidemiology.** L. Galetto, M. Pegoraro, E. Rossi, A. Lucchi, S. Palmano, C. Marzachi, D. Bosco
38. **Genotyping by high-resolution melting of *Alternaria* species causing citrus brown spot.** F. Garganese, A. Ippolito, V. di Rienzo, C. Lotti, C. Montemurro, S.M. Sanzani
39. **Pathogenicity and possible biological control of fungi associated to Botryosphaeria dieback of grapevine in western Sicily.** S. Giambra, V. Mondello, G. Conigliaro, P. Bella, A. Alfonzo, S. Burrmano
40. **Efficacy of different fungicides against *Allophoma tropica*, the causal agent of a new leaf spot on lettuce: results from *in vitro* and *in planta* tests.** G. Gilardi, M.L. Gullino, A. Garibaldi
41. **Preventative treatments in nursery with resistant inducers, compost and biocontrol agents for the management of the Fusarium wilt of lettuce under glasshouse and field conditions.** G. Gilardi, M.L. Gullino, A. Garibaldi
42. **Land use and climate change trigger *Phytophthora* infestation in an amenity urban wood in Milan.** B. Ginetti, A. Benigno, S. Anderloni, P. Pirelli, T. Jung, S. Moricca
43. **Monitoring the spread of *Phytophthora* spp. in water bodies of green park areas of the Milan hinterland.** B. Ginetti, A. Benigno, S. Corsinovi, S. Anderloni, P. Pirelli, T. Jung, S. Moricca
44. **Recycling agro-industrial by-products using beneficial microorganisms.** L. Gioia, S. Lanzuise, A. Bottiglieri, E. Comite, A. Sicari, E. Monte, F. Vinale, M. Lorito, S.L. Woo
45. **Assessing the effects of different heavy metals on the development of poplar and willow clones: perspectives for dendroremediation.** L. Giordano, A. Giorcelli, P.M. Chiarabaglio, G. Lione, P. Gonthier, M.L. Gullino



46. **Monitoring the presence of mycotoxigenic fungi and mycotoxins on Italian rice during the growing season.** P. Giorni, T. Bertuzzi, M. Romani
47. **Assessing the variability of pathogenicity within a group of Italian isolates of *Fusarium verticillioides*, pathogen of *Zea mays*, differing in unique genes of virulence.** A. Grottoli, G. Giuliano, M. Beccaccioli, M. Blandino, D.W. Brown, V. Scala, M. Reverberi
48. **Preliminary detection of necrotrophic fungal species associated with local caraway and cumin seeds in the Cap Bon region of Tunisia.** S. Hassouna, M.B. Allagui, M. Moumni
49. **Preliminary investigations on ‘*Candidatus Phytoplasma solani*’ genotypes associated with grapevine Bois noir in Iran.** E. Jamshidi, S. Murolo, S. Baghaee Ravari, G. Romanazzi
50. **The defense mechanism against *Meloidogyne javanica* is induced by beneficial microorganisms combined with chemicals in tomato *Solanum lycopersicum*.** M. Kavari, L. Landi, E. Mahdikhani Moghaddam, G. Romanazzi
51. **Identification of pathogenic fungi in rotten walnut fruits from different plantations in Hungary.** C. Kovács, F. Takács, A. Tóth, E. Sándor
52. **Whole genome sequence and annotation of the brown rot fungal pathogen *Monilinia fructigena*.** L. Landi, R.M. De Miccolis Angelini, S. Pollastro, D. Abate, F. Faretra, G. Romanazzi
53. **Survey of the presence of ochratoxigenic fungi in vineyards in northern Dalmatia.** J. Lončar, Z. Jakopovic, A. Lacic, K. Markov, M. Reverberi, S. Zjalić
54. **Effects of copper and biostimulants used for grapevine downy mildew control on grape amino-acid content.** V. Mancini, T. Garde-Cerdán, M. Carrasco-Quiroz, A. Servili, G. Gutiérrez-Gamboa, R. Foglia, E.P. Pérez-Álvarez, G. Romanazzi
55. **First survey on *Monilinia* affecting stone fruits in the Marche region.** V. Mancini, L. Landi, F. Chieti, S. Morini, G. Romanazzi
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61. **Young students and plant health: bringing to the light the environmental protection issues.** A. Masino, T. Llera Duran, M. Pugliese, G. Gilardi, M.L. Gullino



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69. ***Trichoderma* spp. differ in volatilome profile: are these differences detectable also *in vivo*?** M.M. Monti, L. Gualtieri, A. Cozzolino, M. Ruocco
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71. **Molecular identification of ‘*Candidatus Phytoplasma prunorum*’ and ‘*Candidatus Phytoplasma solani*’ associated to stone fruit yellows in Marche region.** S. Murolo, V. Mancini, L. Pizzichini, S. Talevi, S. Nardi, N. Lucci, G. Romanazzi
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95. **Enzyme production by solid state fermentation of *Cryphonectria parasitica* on agro-industrial residues.** S. Savino, E. Monti, E. Gobbi



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101. **Biogenic extracellular synthesis of gold and silver nanoparticles by *Trichoderma harzianum* and *Trichoderma longibrachiatum* and their effectiveness against seed-borne fungal pathogens.** M. Spada, M.A. Mohamed, G. Puntoni, S. Pecchia
102. **Sensitivity of four *Fusarium* head blight causal agents to commonly used fungicides.** F. Tini, G. Beccari, E. Ciavatta, A. Onofri, D.M. Gardiner, L. Covarelli
103. **Characterization of endophytic fungi isolated from grapevines by matrix-assisted laser desorption time-of-flight mass spectrometry (MALDI-TOF MS).** A. Tóth, C. Kovács, E. Sándor
104. **High incidence of cucumber mosaic virus in *Alstroemeria* hybrids in Campania region (southern Italy) and observation of symptoms recovery from initial infection.** E. Troiano, G. Parrella
105. **The expression of TAXI-I and TAXI-III xylanase inhibitors and of a *Fusarium graminearum* xylanase increases plant resistance to bacterial and fungal pathogens.** S. Tundo, M.C. Paccanaro, L. Sella, I. Elmaghraby, I. Moscetti, R. D'Ovidio, F. Favaron
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109. **Insights on the cross-talk between *Trichoderma gamsii* and *Fusarium graminearum* at a distance: two opposite messages.** A. Zapparata, R. Baroncelli, L. Malfatti, M. Brandström Durling, C.P. Kubicek, M. Karlsson, G. Vannacci, S. Sarrocco



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110. **Does timing of application influence the efficacy of *Trichoderma* in reducing wood fungal infections and in improving plant quality in grapevine nurseries?** S. Di Marco, A. Benigno, G. Carella, E. Metruccio, M. Nocentini, F. Osti, A. Pacetti, L. Mugnai
111. **Effects of natural compounds on postharvest gray mold infections on fresh strawberries fruit.** R. Rajestary, L. Landi, R. Foglia, E. Feliziani, M. Magini, A. Servili, A.Zh. Amirkulova, A. Ramos Guerrero, D. Xu, G. Romanazzi



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EVENTS LINKED TO THE CONGRESS

Wednesday 5th September

9.00 am - 1.00 pm: Course on Patents, Room E at D3A (43°35'18.71"N, 13°30'57.13"E)

Friday 7th September

12.30 pm: Departure for tour in vineyards affected by esca disease, downy mildew and Bois noir

8.00 pm: Dinner with organic and vegan wine tasting at Offida (AP)

10.30 pm: Return to the hotels in Ancona

CONGRESS REGISTRATION

Deadline for registration for the Congress is 30th July, 2018. The registration fees for the Congress were reported in the second announcement. Registration on-site for collateral events and social dinner will be available on site, with previous communication to the e-mail address sipav2018@univpm.it

Further information is available through the Conference web pages (<http://www.d3a.univpm.it/en/SIPAV2018>), or by contacting the Congress Secretary by email (sipav2018@univpm.it) or by phone, at the following numbers: +39-071-2204871; +39-071-2204697; +39-071-2204336

INFORMATION TO REACH THE CONGRESS

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 - Exit Ancona Sud - Osimo", then continue towards Ancona
 - Take the bypass road "16 Sud" ("Variante Strada Statale 16 Sud")
 - Take the North-South route ("Asse Nord-Sud"), direction Ancona centre ("Ancona Centro")
 - Exit at "Università"
 - At the crossroads, turn left, then continue for about 300 m
 - Then go right and continue to the hill, until you reach the main entrance of the University (on the right)
 - Parking is available close to the Aula Azzurra (43°35'7.24"N, 13°30'54.45"E)

- To reach the University from Ancona Railway Station or from the city centre:
 - Bus 1/4, direction "Tavernelle Capolinea"; leave the bus at the end of the line
 - Then, at the bus stop "Cimitero Tavernelle", take bus 46 and leave the bus at "Università - Monte Dago"
 - Enter to the University Campus, following the indications on the following map and those available on site

The bus schedules are available online (<http://www.conerobus.it/en/transport/urban-service-ancona>), and through the App "ATMA".



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In the behalf of Organizing Committee
Prof. Gianfranco Romanazzi