

CONGRESS PROGRAMME

MONDAY 11th APRIL

17:00- 18:30 Registration

19:00- 20:30 Official reception

TUESDAY 12th APRIL

8:30- 9:00 Registration

9:00- 9:45 Opening Ceremony

9:45- 10:45 Invited Lecture

Chairperson: Dr. M. Abadias

I.1 Pre- and post-harvest losses and degradation of food crops: extent, causes and control
Dr. R.N. Strange (Birkbeck College, University of London, London, UK)

10:45- 11:15 Coffee break

11:15- 13:00 Oral Session I (Host-Pathogen Interaction)

Chairperson: Dr. D. Prusky and Dr. M.W. Davey

- O_{HP}1 Infection biology of *Monilinia fructicola* and implications for cultivar improvement and brown rot resistance in processing peaches
Bostock, R., Lee, M.H., Yaghmour, M., Gradziel, T., Crisosto, C., Parfitt, D.
- O_{HP}2 Development of genomic tools to dissect pathogenicity factors of the citrus postharvest pathogen *Penicillium digitatum*
López-Pérez, M., Ballester, A.R., **González-Candelas, L.**
- O_{HP}3 Regulating mechanisms of exogenous factors on pathogenicity of *Penicillium expansum*
Tian, S., Li, B., Lai, T., Qin, G.
- O_{HP}4 Transcriptome analysis of grapefruit flavedo in response to application of the yeast biocontrol agent *Metschnikowia fructicola*
Droby, S., Hershkovitz, V., Ben-Dayana, C., Cohen, L., Raphael, G., Pasmanik-Chor, M., Liu, J., Belausov, E., Wisniewski, M.
- O_{HP}5 *Colletotrichum acutatum* interaction with unripe and ripe strawberry (*Fragaria × ananassa*) fruits reveals differential responses at histological and transcriptional level
Baraldi, E., Guidarelli, M., Carbone, F., Mourgues, F., Perrotta, G., Rosati, C. Bertolini, P.
- O_{HP}6 Genes differentially expressed by *Aspergillus flavus* during the pathogenic colonization of *Zea mays*
Punelli, M., Reverberi, M., Uva, P., Mentzen, W., Dolezal, A.L., Woloshuk, C.P., Scarpari, M., Fabbri, A.A., Fanelli, C., Payne, G.A.
- O_{HP}7 Changes in grape berry skin morphological and biochemical characteristics during fruit development and susceptibility to *Botrytis cinerea*
Ferroud M., Roudet J.

13:00- 14:30 Lunch

14:30- 15:45 Oral Session II (Host-Pathogen Interaction)

Chairperson: Dr. L. González-Candelas and Dr. R. Bostock

- O_{HP}8 Enhancement of apple resistance to *Penicillium expansum* and patulin contamination by the phenolic compound quercetin
Sanzani, S.M., Ippolito, A., Schena, L., De Girolamo, A., Nigro, F., Solfrizzo, M., González-Candelas, L.
- O_{HP}9 Host mechanisms regulated during ammonium secretion by *Colletotrichum coccodes* infection: the activation of salicylic and jasmonic acid pathways in tomato fruit
Alkan, N., Fluhr, R., **Prusky, D.**
- O_{HP}10 Infection capacity at different maturity stages of oranges in compatible (*Penicillium digitatum*) and incompatible (*Penicillium expansum*) interaction
Vilanova, L., Viñas, I., Torres, R., Jauset, A.M., Usall, J., Burón-Moles, G., Teixidó, N.
- O_{HP}11 Pre-harvest stress to improve post-harvest resistance to *Botrytis* in apple fruit
Davey, M.W., Bui T. A.T., Vanwalleghem, T., Vorstermans, B., Creemers, P., Hertog, M.L.A.T.M., Nicolai, B.M., Keulemans, J.
- O_{HP}12 Postharvest β -aminobutyric acid (BABA) treatment induces ROS generation and antioxidant enzyme system in potato tubers slices
Yin, Y., **Bi, Y.**, Chen, S.J., Li, Y.C., Wang, Y., Ge, Y.H., Li, Y.C., Yuan, L., Ding, B.

15:45- 16:45 Coffee break and POSTER SESSION I (Host-Pathogen Interaction)

16:45- 18:00 Oral Session III (Disease Control)

Chairperson: Dr. N. Teixidó and Dr. M. Mari

- O_C1 Gaseous ozone treatment of kiwifruit during cold storage induces resistance to stem-end rot caused by the fungal pathogen *Botrytis cinerea*
Minas, I.S., **Karaoglanidis, G.S.**, Manganaris, G.A., Vasilakakis, M.
- O_C2 Radio frequency heat treatment for brown rot control in peaches
Sisquella, M., Casals, C., Viñas, I., Landl, A., Picouet, P., Usall, J.
- O_C3 Influence of stress treatments on the infection risk for *Botrytis cinerea* on apple
Vanwalleghem, T., Van Hemelrijck, W., Creemers, P., Bui, T.T.A., Hertog, M., Nicolai, B., Davey, M., Keulemans, W.
- O_C4 Resistance to benzimidazole and dicarboximide in *Monilinia* spp. populations collected on peaches in the Ebro Valley (Spain)
Egüen B., Melgarejo P., De Cal A.
- O_C5 Biological control of gray mold of apple with mixture of *Bacillus subtilis*, *Pichia guilliermondii* and *Candida membranifaciens* isolates
Etebarian, H.R., Zanguei, E., Sahebani, N.

18:30- Thematic Sessions (parallel sessions)

Thematic Session 1. *Monilinia* in stone fruits. Chairperson: Dr. Themis Michailides and Dr. Philip Elmer

Thematic Session 2. Food Security and Climate Change: Impact on Mycotoxins? Chairperson: Prof. Naresh Magan

Thematic Session 3. Use of molecular tools in host-pathogen interaction studies. Chairperson: Dr. Luis González-Candelas

WEDNESDAY 13th APRIL

9:00- 10:00 Invited Lecture

Chairperson: Dr. R. Torres

I.2 Potential impacts of climate changes on plant disease management

Dr. J.A. Navas-Cortés (Institute for Sustainable Agriculture (IAS), Spanish National Research Council (CSIC), Córdoba, Spain)

10:00- 10:30 Coffee break

10:30- 11:45 Oral Session IV (Etiology/Epidemiology/Detection)

Chairperson: Dr. T.J. Michailides and Dr. J. Köhl

O_{EED}1 Effect of the fruit wetness hours and its occurrence in the orchard on the incidence of “bull’s eye rot” (*Neofabraea alba*) in pink lady apples after 4 months of cold storage
Lolas, M., Soto, S., Muñoz, C., Rojas, V., Callofa, J.

O_{EED}2 Incidence of secondary inoculum of *Monilinia* spp. from peach orchards on postharvest brown rot
Villarino, M., Melgarejo, P., Usall, J., Segarra, J., **De Cal, A.**

O_{EED}3 Pomegranate postharvest diseases in Spain
Palou, L., Montesinos-Herrero, C., Taberner, V., Guardado, A., del Río, M.A.

O_{EED}4 Molecular identification of black Aspergilli and ochratoxin A occurrence in table grapes
Yaseen, T., Ricelli, A., Fraiha, H., Reverberi, M., Albanese, P., D’Onghia, A. M.

O_{EED}5 *Cladosporium* (spp.) and *Alternaria alternata* postharvest syndromes and management in tomatoes on vine
Bustan, A., Glidai, S., Erlich, O., Tsrer (Lahkim), L.

11:45- 13:00 Oral Session V (Etiology/Epidemiology/Detection)

Chairperson: Dr. A. De Cal and Dr. D. Sugar

O_{EED}6 Evaluation of the occurrence of ochratoxin A in three wine grape varieties cultured in Lazio (central Italy) by a comparison of some extraction methods
Fanelli C., Reverberi M., Fabbri A. A., Tramaglino S., **Bello C.**, Scarpari M., Zjalic S., Ricelli A.

O_{EED}7 Postharvest survival of *Monilinia fructicola* in mummified prune fruit in California
Yong, L., Ma, Z., **Michailides, T. J.**

- O_{EED}8 Black spots caused by *Rhexocercosporidium carotae* on cold stored carrots in Sweden
Wikström, M., Ragnarsson, S., Jönsson, B., **Köhl, J.**, Arvidsson, A.K., Burgers, S.L.G.E.,
Groenenboom-de Haas, B.H., Lombaers-van der Plas, C.H.
- O_{EED}9 A methodology for the detection of epiphytic *Geotrichum candidum* on stone fruits and variation of
pathogen's populations in peach postharvest
Henriquez, J.L., Alarcón, P., Castelleti, E.
- O_{EED}10 A study on bull's eye rot of apples in South Africa
Den Breeyen, A., Lennox, C.

13:00- 14:30 Lunch

14:30- 15:45 Oral Session VI (Disease Control)

Chairperson: Dr. N. Magan and Dr. C. Nunes

- O_C6 Further advancement in biocontrol efficacy of potential yeast antagonist(s) for controlling *Penicillium*
rots of citrus
EI-Neshawy, S. M.
- O_C7 Suppressive-subtractive cDNA analysis indicates that elevated yeast antioxidant gene expression is
associated with increased stress tolerance and biocontrol efficacy in the antagonistic yeast, *Candida*
oleophila
Wisniewski, M., Liu, J., Droby, S., Macarasin, D., Hershkovitz, V.
- O_C8 Cloning, characterization and expression of the alkaline serine protease genes from the postharvest
biocontrol agent *Aureobasidium pullulans* PL5
Zhang, D.P., Valente, S., Spadaro, D., Garibaldi, A., Gullino, M.L.
- O_C9 Infection biology, disease incidence and control of black mold on longkong fruit (*Aglaia dookoo* griff.)
during pre- and post-harvest
Sangchote, S.; Sungsiri, T
- O_C6 *Fusarium* fungal species: effect of post-harvest storage conditions on contamination of grains with
Fusarium toxins
Mylona, K., Magan, N.

15:45- 16:45 Coffee break and POSTER SESSION II (Etiology/Epidemiology/Detection)

17:00- Technical Visit

THURSDAY 14th APRIL

9:00- 10:00 Invited Lecture

Chairperson: Dr. J. Usall

- I.3 Experiences in commercializing biological research: A personal journey
Dr. M.G. Shepherd (Biocell Corporation, Auckland, New Zealand)

10:00- 10:30 Coffee break

10:30- 11:45 Oral Session VII (Disease Control)

Chairperson: Dr. P.A.G. Elmer and Dr. A. Ippolito

- O_C11 Efficacy of two rhizobacterial antagonists for control of postharvest diseases in apple fruit at two locations in Canada
Nelson, L.M., Mantyka, D.L., Errampalli, D., Golubovic, N.
- O_C12 Production, formulation, packaging, storage and shelf life: key aspects to obtain a successful biocontrol product
Teixidó, N., Usall, J., Torres, R., Abadias, M., Solsona, C., Viñas, I.
- O_C13 Ecological fitness of *Pichia anomala* strain K and *Candida oleophila* strain O to control postharvest diseases of apples
Jijakli, M. H., Lahlali, R.
- O_C14 Development of *Metschnikowia andauensis* as a postharvest biocontrol agent
Nunes, C., Manso, T.
- O_C15 Alternatives to synthetic fungicides for citrus postharvest decay control in Morocco
Achouri, M.

11:45- 13:00 Oral Session VIII (Disease Control)

Chairperson: Dr. P. Bertolini and Dr. M.H. Jijakli

- O_C16 Orchard calcium and fungicide treatments for control of pear postharvest decay
Sugar, D., Basile, S.
- O_C17 Influence of plant growth regulators on postharvest rots and quality of kiwifruit
Mari, M., Ceredi, G., Bertolini, P.
- O_C18 Influence of fruit condition on the efficacy of sodium bicarbonate to control green mold on citrus
Plaza, P., Viñas, I., Lamarca, N., Torres, R., Usall, J.
- O_C19 Phosphite salts: a new alternative for citrus *Penicillium* spp. postharvest management
Smilanick, J.L., Lado Lindner, J., Ramallo, J.
- O_C20 Application of resistance inducers to control postharvest gray mold and *Rhizopus* rot of strawberries
Romanazzi G., Feliziani E., Landi L.

13:00- 14:30 Lunch

14:30- 15:45 Oral Session IX (Disease Control)

Chairperson: Dr. J. Smilanick and Dr. L. Palou

- O_C21 Effect of (pulsed) UV-C light on spore germination and mycelial growth of storage diseases causing fungi, and control of storage rot in apples and pears
Wenneker M., Joosten N., Luckerhoff L.
- O_C22 Hot, moist air treatment (“curing”) for postharvest suppression of brown rot in stonefruit caused by *Monilinia fructicola*
Elmer, P.A.G., Spiers, T.M., Wood, P.N., Reglinski, T., Fisher, B., Casals, C., Calvo, C., Usall, J.
- O_C23 Potential of using Ozone to control *in vitro* and *in situ* growth and aflatoxin production by *Aspergillus flavus* on peanuts
Sultan, Y., **Magan, N.**
- O_C24 The effect of postharvest hot air treatments on *Penicillium digitatum* decay on Valencia orange
Kinay-Teksur, P., Smilanick, J.L., Margoson, D., Şen, F., Yıldız, M., Monsour, M.
- O_C25 The effect of postharvest blue light treatment on citrus decay
Liao, H.L., Alferez, F., Burns, J.K.

15:45- 16:45 Coffee break and POSTER SESSION III (Disease Control)

16:45- 19:00 Round Table:

‘Establishing alliances between academia and industry: imperative for answering real commercial problems’

Chairperson: Dr. S. Droby

Mr. C. Palomar, Managing Director of AEPLA (“Asociación Empresarial para la Protección de las Plantas”, Spanish Crop Protection Association, Spain),

Dr. O. Jones, President of IBMA (The International Biocontrol Manufacturers Association, UK),

Dr. M. Wisniewski, Researcher of USDA-ARS, (Appalachian Fruit Research Station, Kearneysville, USA)

Dr. M. G. Shepherd, Managing Director of Biocell Corporation Limited (New Zealand).

19:00 Concluding remarks and closing

21:00 Social Dinner