

VIII Incontro Nazionale sui Fitoplasmi e le Malattie da Fitoplasmi

Catania, 14 -15 Ottobre 2021



Patrocinato da:



Giovedì 14 ottobre 2021

h. 10:00

Saluti ai partecipanti

h. 10:30 - 13:00

Sessione 1 – Diagnosi, caratterizzazione e nuove segnalazioni

Moderatori: Vanda Prota, Marika Rossi

h. 10:30 - 12:15

Presentazioni orali

Etiology of phytoplasma-associated diseases of almond, pomegranate, and grapevine in Jordan

A.H. Abu Alloush, S. Amashah, A. Mahasneh, P.A. Bianco, R. Tedeschi, F. Quaglino

Genome assembly and annotation of eight 'Candidatus Phytoplasma mali' strains

G. Calia, D. Micheletti, C. Donati, K. Janik, H. Schuler, A. Cestaro, M. Moser

Molecular characterization of different 'Candidatus Phytoplasma solani' strains transmitted to tomato cv. Micro-Tom by *Hyalosthes obsoletus*

G. Carminati, P. Ermacora, F. Pavan, G. Firrao, M. Martini

Identification of epidemic "flavescence dorée" molecular variants in Emilia-Romagna and Veneto regions

N. Contaldo, A. Canel, G. Posenato, N. Mori, A. Bertaccini

First report of 'Candidatus Phytoplasma pyri' associated to pear decline (PD) in Sicily (Italy)

E. Distefano, S. Rizza, C. Marzachi, M. Tessitori

Phytoplasma strains maintained in micropropagation since 30 years and the EPPO-Qbank collection

G. Feduzi, N. Contaldo, E. Del Cavallo, F. Pacini, M. Martini, A. Bertaccini

Detection of apple proliferation disease in *Malus x domestica* by near infrared reflectance analysis of leaves

D. Barthel, N. Dordevic, S. Fischnaller, C. Kerschbamer, M. Messner, D. Eisenstecken, P. Robatscher, K. Janik

Multigene differentiation of 'Candidatus Phytoplasma solani' strains from different geographic origins and diverse host species

E. Pacini, A. Bertaccini, J. Stepanović, B. Duduk, N. Contaldo

h. 12:15 - 12:25

Discussione poster

New genetic diversity of 'Candidatus Phytoplasma solani' in Iranian vineyards

E. Jamshidi, S. Murolo, G. Romanazzi

Recording of *Spartium junceum* whitches' broom in Riviera del Conero (Marche, Ancona, Italy)

S. Murolo, F. Paciocco, G. Romanazzi

Detection of phytoplasma infection in seed-bearing cabbage (*Brassica oleracea* var. *capitata*) in Marche region, Italy

S. Piancatelli, M. Mourni, T. Binni, L. Landi, S. Murolo, G. Romanazzi

h. 12:30 - 13:00

Relazione a invito

Valeria Trivellone - University of Illinois, Champaign

The Good, the Bad and the Ugly: which processes shape phytoplasma-insect-plant relationships?

h. 15:00 - 16:30

Tavola rotonda – Fitoplasmii: emergenze fitosanitarie e potenziali scenari

Moderatrice: Matilde Tessitori

Intervengono:

Baldissera Giovanni – EUPHRESKO

Euphresco: ricerca collaborativa internazionale in appoggio alla legislazione sulla salute delle piante

Caio Bruno Faraglia – Ministero delle Politiche Agricole Alimentari e Forestali

Nuovo servizio fitosanitario per la gestione delle emergenze fitosanitarie

Fabio Quaglino - Università di Milano

'Candidatus Phytoplasma phoenicium' associated with devastating diseases of stone fruits

Francesco Sottile – Distretto produttivo della frutta secca di Sicilia

La mandorlicoltura in Sicilia

Dibattito

Venerdì 15 ottobre 2021

h. 10:00 -13:00 Sessione 2 – Epidemiologia, vettori e gestione

Moderatori: Nicoletta Contaldo, Sergio Murolo

h. 10:00 - 10:30

Relazione a invito

Sylvie Malembic-Maher – INRA, Bordeaux

Insights into the emergence of the grapevine “flavescence dorée” epidemics. From European scale to local case studies

h. 10:30 - 12:30

Presentazioni orali

Finding of parasitized *Scaphoideus titanus* in a vineyard in Veneto region

E. Belgeri, M. Signorotto, E. Angelini, A. Spada, V. Forte

TROPICSAFE project: identification and management of phytoplasma-associated diseases in coconut palms in Ghana, Mexico, Jamaica and Cuba and in grapevine in South Africa, Chile and Italy

A. Bertaccini, N. Yankey, C. Oropeza, W. Myrie, M. Luis-Pantoja, J. Burger, N. Fiore

Transmission trials using *in vitro* plants: a new protocol to confirm phytoplasma insect vector species

N. Fiore, N. Quiroga, C. Gamboa, A.M. Pino, A. Zamorano, J. Campodonico, A. Bertaccini

Identification and characterization of ‘*Candidatus* Phytoplasma solani’ associated with selected Auchenorrhyncha species

E. Jamshidi, S. Murolo, L. Corsi, L. Landi, S. Ruschioni, G. Romanazzi, N. Isidoro, P. Riolo

Widespread occurrence of elm yellows and alder yellows diseases in southern Italy

C. Marcone, A. Baccaro

Acibenzolar-S-methyl: effects on the “flavescence dorée” pathosystem

C. Marzachi, S. Palmano, D. Miliordos, M. Ripamonti, D. Bosco

Evaluation of biostimulant effectiveness in grapevine “bois noir” management

A. Moussa, A. Passera, S. Torcoli, F. Serina, F. Quaglino, N. Mori

Role in “bois noir” epidemiology of inter-row vineyard groundcover vegetation used for green manure

A. Moussa, A. Cosentino, S. Torcoli, F. Serina, N. Mori, F. Quaglino

Observation about relationship between *Scaphoideus titanus* and two differently susceptible cultivars to “flavescence dorée”

M. Panzeri, M. Signorotto, S. Guadagnino, E. Belgeri, E. Angelini, V. Forte

High infection rate of “flavescence dorée” phytoplasmas in *Orientus ishidae* and *Alnus glutinosa* in Valtellina

I.E. Rigamonti, L. Pasini, M. Salvetti, P. Casati, F. Quaglino

h. 12:30 - 13:00

Discussione poster

First report of “flavescence dorée” phytoplasma identification and characterization in the leafhopper species *Graphocephala fennahi*, *Japananus hyalinus*, *Hishimonus hamatus*

E. Belgeri, E. Angelini, A. Rizzoli, M. Jermini, L. Filippin, I. E. Rigamonti

Epidemiological investigations and molecular characterization of ‘*Candidatus* Phytoplasma solani’ in grapevines, weeds, vectors and putative vectors in western Sicily

G. Conigliaro, E. Jamshidi, G. Lo Verde, P. Bella, V. Mondello, S. Giambra, V. D’Urso, H. Tsolakis, S. Murolo, S. Burruano, G. Romanazzi

Possible implication of *Orientus ishidae* in apple proliferation epidemiology. Preliminary study in Trentino (Italy)

G. Dalmaso, V. Gualandri, M. Baldessari, N. Mori, V. Mazzoni, C. Ioriatti

Frequency of “flavescence dorée” detected in adults of *Scaphoideus titanus* collected in vineyards with different epidemic pressure of the disease

A. Gelmetti, F. Ghidoni, C. Cainelli, M. Bottura

Three-year monitoring of potential insect vectors of “flavescence dorée” in Trentino vineyards through use of chromotropic traps

A. Gelmetti, F. Ghidoni, L. Zapponi, V. Mazzoni, M. Bottura

Ecology-based analysis of association between *Spartium junceum* and 16SrV phytoplasmas

M. Rossi, R. Tedeschi, C. Marzachi, M. Tessitori

Culture dependent analysis of the microbial community associated to phytoplasma recovered apple trees

M. Trenti, E. Corretto, F. Forno, L. Mattedi, P.L. Bianchedi, M. Moser, C. Kerschbamer, H. Schuler, K. Janik

Venerdì 15 ottobre 2021

h 15.00 - 17.00 Sessione 3 – Interazione ospite-patogeno-vettore

Moderatori: Marta Martini, Alessandro Passera

h. 15:00 - 15:30

Relazione a invito

Juergen Gross - Julius Kühn Institut (JKI), Dossenheim

Multitrophic interactions in plant-insect-phytoplasma disease systems and advances in control of psyllid vectors

h. 15:30 - 17:00

Presentazioni orali

New insight into seasonal vector competence of *Cacopsylla melanoneura* in Northwest Italy

V. Candian, M. Monti, R. Tedeschi

Population genomics of factors influencing '*Candidatus Phytoplasma mali*' transmission

E. Corretto, J. Dittmer, M. Trenti, K. Janik, J.M. Howie, T. Wolfe, R. Tedeschi, O. Rota-Stabelli, C. Stauffer, H. Schuler

Transcriptional profile of "flavescence dorée" phytoplasma during different infection stages of host plants and insect vectors

L. Galetto, S. Ottati, S. Abbà, M. Ripamonti, D. Bosco, M. Rossi, S. Palmano, C. Marzachi

Transmission of "flavescence dorée" phytoplasma requires a reduced latency period in *Euscelidius variegatus* when acquired by adults

E. Gonella, L. Picciau, B. Orrù, A. Alma

Chloroplasts under attack!

K. Janik, C. Mittelberger, M. Moser

Discovering insect viral resources and modelling their potential for biocontrol of phytoplasma vectors

S. Ottati, S. Abbà, L. Galetto, M. Rossi, M. Vallino, D. Bosco, C. Marzachi

Fitness of *Scaphoideus titanus* varies on grapevine cultivars with different susceptibility to "flavescence dorée"

M. Ripamonti, F. Maron, L. Galetto, C. Marzachi, D. Bosco

h. 17:00 - 17:15

Discussione poster

Immune activation in the vector *Euscelidius variegatus* in response to phytoplasmas and symbiotic bacteria

E. Gonella, M. Mandrioli, R. Tedeschi, E. Crotti, A. Alma

The effector protein SAP11_{CaPM} interacts with MdTCP18

C. Mittelberger, H. Stellmach, T. Letschka, B. Hause, K. Janik

Investigating the role of *MdTCP4* of *Malus × domestica* and its role during phytoplasma infection

M. Tabarelli, M. Malnoy, K. Janik

h. 17:15

Chiusura lavori e saluti

Comitato scientifico

Alberto Alma
Assunta Bertaccini
Piero Attilio Bianco
Luca Ferretti
Cristina Marzachi
Rita Musetti
Gianfranco Romanazzi
Matilde Tessitori

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