

COST Action FA0807 final meeting Lisbon, Portugal



September 30/October 1, 2013
Hotel Praia Mar - Carcavelos

SCIENTIFIC PROGRAM

Monday September 30, 2013

08:30-08:40 Opening of the meeting

08:40-10:30 *Diseases and vectors in COST countries*

Bojan Duduk - Jana Franova - Barbara Jarausch

Presentation of WG1 and WG2 results

M. Nicolaisen Phytoplasmas and phytoplasma vectors in Denmark, Finland, Lithuania and Norway

G. Peusens, P. Lepoivre, S. Steyer, P. Laurent, K. De Jonghe, M. Dickinson, M. Verbeek, T. Beliën
Phytoplasma diseases and vectors in United Kingdom, The Netherlands and Belgium

J. Fránová, J. Příbylová, M. Navrátil, D. Šafařová, I. Ember, M. Kölber, S. Süle, M. Cieslinska, M. Kaminska
Phytoplasma diseases and their vectors in the Czech Republic, Hungary and Poland

B. Jarausch, M. Maixner, P. Kehrlj, S. Schaerer
Presence and distribution of phytoplasma diseases and vectors in Germany and Switzerland – current state of the art

X. Foissac Recent insight on phytoplasma diseases and vectors in France

Dijana Skoric Overview of the phytoplasma and vector research in Austria, Croatia and Slovenia since 2009

Bojan Duduk Overview of the phytoplasma and its vector research in Bosnia and Herzegovina, Bulgaria, FY Republic of Macedonia, Romania and Serbia

E. Torres, A. Batlle, A. Laviña, J. Bech, A. Bertaccini, E. Sousa
Review of occurrence of phytoplasmas in Spain, Portugal and Malta

P.A. Bianco Phytoplasmas and phytoplasma vectors in Greece, Israel, Italy and Turkey

11:00-13:00 Diseases and vector in non COST countries

Assunta Bertaccini

Report on non COST countries

M. Molino Lova, Y. Abou Jawdah, E. Choueiri, M. Beyrouthy, **R. Fakhr**, P.A. Bianco, A. Alma, H. Sobhn, M. Jawahri, C. Mortada, P. Najjar, P. Casati, F. Quaglino, L. Picciau, R. Tedeschi, S. Khalil, R. Maacaroun, C. Makfoud, L. Haydar, R. Al Achi **Almond witches' broom phytoplasma: disease monitoring and preliminary control measures in Lebanon**

L. Picciau, R. Tedeschi, F. Quaglino, M. Jawhari, Y. Abou-Jawdah, M. Molino Lova, P. Casati, E. Choueiri, H. Abdul-Nour, P.A. Bianco, A. Alma **Potential vectors of 'Candidatus Phytoplasma phoenicium' in Lebanon**

N.M. Salem, F. Quaglino, A. Abdeen, P. Casati, D. Bulgari, A. Alma, P.A. Bianco **First report of 'Candidatus Phytoplasma solani' associated with grapevine "bois noir" disease in Jordan**

J.F. Mejia, B. Duduk, L. Zamora, S. Paltrinieri, E. Satta, A. Bertaccini, N. Contaldo **Identification and molecular characterization of 'Candidatus Phytoplasma' strains from maize in four Countries**

L. Conci, F. Guzman, F. Fernandez, E. Galdeano, T. Perez Grosso, A. Saavedra Pons, L. Torres, N. Meneguzzi **Advances in knowledge about phytoplasma diseases in Argentina**

R. Carstens, **J. Burger** **An update on the status of grapevine yellows disease in vineyards of the Olifants River region of South Africa**

14:30-16:00 Diseases and insect vectors

Chair Barbara Jarausch-Nicolas Sauvion

J. Plavec, I. Križanac, Ž. Budinščak, D. Ivić, D. Škorić, **M. Šeruga Musić** **'Candidatus Phytoplasma mali' - a new phytoplasma species molecularly characterized in Croatia.**

C. Chireceanu, M. Cieślińska **Molecular characterization of 'Candidatus Phytoplasma mali' and 'Candidatus Phytoplasma pyri' isolates from Romania.**

K. Çağlayan, M. Gazel, Ç.U. Serçe, K. Kaya **Fruit tree phytoplasmas in Turkey**

M. Cieślińska, J. Wójcik-Seliga, B. Kowalik **Molecular diversity of phytoplasmas infecting *Rubus* sp. plants in Poland**

R. Ramkat, M. Ruinelli, F. Maghuly, **M. Laimer** **Phytoplasmas associated with *Rubus idaeus* and *Rubus fruticosus***

J. Přibyllová, **J. Špak**, J. Fránová **Phytoplasma infections in *Rhododendron hybridum***

B. Lolić, G. Perković, **D. Delić** **Maize redness disease: current situation in Bosnia and Herzegovina**

G. Peusens, C. Duchêne, P. Lepoivre, T. Olivier, S. Steyer, E. Demonty, P. Laurent, T. Beliën **Fruit tree phytoplasmas and their vectors in pome fruit growing in Belgium: overview of current status and recent research efforts**

16:00-17:30 Molecular tools developed

chair Bojan Duduk-Jana Franova

J. Mitrović, N. Contaldo, A. Bertaccini, M. Kube, B. Duduk **Use of *groEL* gene in characterization of strains belonging to some 'Candidatus phytoplasma' species**

M. Martini, S. Moruzzi, P. Ermacora, F. Ferrini, N. Loi **Multiplex and real-time PCR assays for the specific detection of chicory phyllody phytoplasma (16SrIX-C)**

A. Rotter, P. Nikolić, P. Kogovšek, N. Turnšek, N. Prezelj, K. Gruden, **M. Dermastia** **Searching for new markers of the phytoplasma diseases of grapevine**

F. Quaglino, Y. Zhao, N. Mori, G. Romanazzi, P. Casati, W. Wei, S. Murolo, R.E. Davis, **P.A. Bianco** **Multilocus sequence typing of phytoplasma strains associated with "bois noir" in Italian vineyards**

M. Nicolaisen, O. Makarova, S. Paltrinieri, A. Bertaccini, N. Contaldo **DNA barcoding of phytoplasmas: a tool for their fast identification**

J. Polák, J. Salava, B. Křižan, J. Svoboda **To the problem of reliable detection and sanitation of European stone fruit yellows phytoplasma in apricots**

Tuesday October 1, 2013

08:30-10:30 Management of phytoplasma-associated diseases

Wolfgang Jarausch and Ester Torres

Presentation of WG3 results

Molecular Epidemiology

chair Ester Torres-Nicola Mori

C. Paleskić, G. Brader, M. Riedle-Bauer **Identification and characterization of European stone fruit yellows and pear decline phytoplasma strains in Austria**

G. Brader, A. Aryan, J. Mörtel, M. Pastar, M. Riedle-Bauer **"Stolbur" phytoplasma strains in Austria and their association with grapevine, bindweed, stinging nettle and *Hyalesthes obsoletus***

A. Laviña, J. Sabaté, A. Batlle **Occurrence of *Hyalesthes obsoletus* and "stolbur" phytoplasma strains in grapevine and host plants in Spain**

B. Uzun, C. Ikten, M. Catal, R. Ustun, S. Furat, E. Yol **Advances in molecular detection of the sesame phytoplasmas and resistance to sesame phyllody in Turkey**

Management

chair Wolfgang Jarausch-Monika Riedle-Bauer

Z. Avramov, A. Etropolska, D. Chavdarova, M. Eftenov, M. Laginova **Monitoring programs for quarantine phytoplasmas on grapevine and fruit trees and problems for the phytosanitary control in Bulgaria**

R. Steffek, G. Strauss, I. Kopacka, J. Pusterhofer, J. Klement, W. Luttenberger, A. Wenzel, A. Kleissner, R. Alt, **H. Reizenzein** **Modeling epidemiological and economic consequences of "flavescence dorée" to Austrian viticulture as a novel decision tool for control strategies**

E. Sousa, C. Paula, C. Mimoso, K. Teixeira, A.M. Nazaré ***Scaphoideus titanus* Ball and "flavescence dorée" disease in Portugal**

N. Mori, F. Pavan, A. Pozzebon, D. Fornasiero, C. Peruffo, C. Duso **The role of vineyards not treated with insecticides on *Scaphoideus titanus* spreading**

M. Riedle-Bauer, C. Paleskić, K. Bachinger, J. Mörtel, C. Engel, M. Kickenweiz, L. Wurm, L. Czipin, G. Brader **Mark, release and recapture experiments in two model apricot orchards tracking the effects of the insecticide thiacloprid on the dispersal of *Cacopsylla pruni* (Hemiptera: Psyllidae), vector of European stone fruit yellows**

D. Bulgari, P. Casati, F. Quaglino, **P.A. Bianco** **Isolation of potential biocontrol agents of '*Candidatus Phytoplasma mali*'**

11:00-13:00 and 14:30-15:10 Genomes and their expression

Saskia Hogehout and Xavier Foissac

Presentation of WG4 results

Genomes and their expression I

Chair Xavier Foissac-Cristina Marzachi

S. Hogehout **From genomics to the characterization of virulence mechanisms of phytoplasmas**

M. Kube, C. Siewert, A.M. Migdoll, B. Duduk, S. Holz, R. Rabus, E. Seemüller, J. Mitrovic, C. Büttner, R. Reinhardt **Complete genomes and deduced metabolism of achleplasmas in comparison to members of '*Candidatus Phytoplasma*' genus**

L. Galetto, D. Pacifico, S. Abbà, S. Bertin, S. Palmano, M. Rashidi, D. Bosco, G. Firrao,

C. Marzachi **Overtime expression of selected chrysanthemum yellows phytoplasma genes during infection of plant and leafhopper vectors**

S.V. Buxa, R. Polizzotto, F. De Marco, A. Loschi, K-H. Kogel, A.J.E. van Bel, **R. Musetti** **Re-arrangement of sieve element endomembrane network in tomato leaves infected by “stolbur” phytoplasma**

B. Schneider, E. Seemüller **Effect on disease development of suppressive strains of ‘Ca. P. mali’ and their molecular characterization**

Genomes and their expression II

chair Saskia Hogenhout-Michael Kube

M. Rashidi, L. Galetto, A. Bulgarelli, F. Veratti, D. Bosco, **C. Marzachi** **The antigenic membrane protein Amp of chrysanthemum yellows phytoplasma is involved in transmission by leafhopper vectors**

D. Desqué, D. Khalil, P. Salar, J-L. Danet, P. Carle, N. Bouvery, L. Béven, S. Malembic-Maher, **X. Foissac** **Adaptation of phytoplasmas responsible for grapevine “flavescence dorée” to *Scaphoideus titanus* insect vector: the role of variable membrane proteins VMPs**

15:10-15:40 COST FA0807 invited presentation

Shigetou Namba

***In planta* proteolytic processing and activation of the phytoplasma witches' broom inducer TENGU**

15:40-16:00 Martin Verbeek web site

16:30-18:00 Discussion of the draft scientific report with COST officers (Restricted meeting)

Oral presentations in sessions:

Diseases and vectors in COST countries

Diseases and insect vectors

Molecular tools developed

Management of phytoplasma-associated diseases

should be of **10 minutes maximum** enclosing discussion

Oral presentations in sessions:

Diseases and vector in non COST countries

Genomes and their expression

should be of **20 minutes maximum** enclosing discussion

