

# Scientific Program of ICFV 2017

## Thessaloniki 5-9 June

### Sunday, 4 June

**17:30-19:30** *Registration and poster hanging*

**19:30-20:00 Invited lecture:** *A. Molassiotis* (Aristotle University of Thessaloniki, Faculty of Agriculture, Pomology Laboratory, Greece) "Fruit tree cultivation and production in Greece: present status and future prospects"

**20:00** *Welcome drink-Greek wine presentation and tasting*

### Monday, 5 June

**08:00-9:00** *Registration and poster hanging*

**9:00-9:20** *Meeting opening*

**9:20-9:50 Invited lecture:** *V.I. Maliogka* (Aristotle University of Thessaloniki, Faculty of Agriculture, Plant Pathology Laboratory, Greece) "Virus and virus-like diseases of fruit trees in Greece-An Overview"

#### **9:50-11:10 Oral Session 1: New and Emerging graft-transmissible pathogens and related diseases-Etiology I**

**Chairs: W. Jelkmann, V. Pallas**

**9:50-10:10** Genomic and biological characterization of *Apple necrotic mosaic virus* infecting apple trees in China. *F. Xing, H.Q. Wang, S.F. Li*

**10:10-10:30** The complete sequence of a new Trichovirus isolated from peach trees in Mexico. *R. De la Torre, V. Pallas, J.A. Sánchez-Navarro*

**10:30-10:50** Discovery of a novel plant virus with unique genome features from blackcurrant. *T. Thekke-Veetil, T. Ho, J.D. Postman, I.E. Tzanetakis*

**10:50-11:10** Molecular characterization of a phytoplasma associated to phyllody and witches' broom in strawberry (*Fragaria x ananassa* Duch.). *N. Quiroga, A. Zamorano, W. Cui, N. Fiore*

**11:10-11:40** *Coffee break*

## 11:40-13:00 Oral Session 2- New and Emerging graft-transmissible pathogens and related diseases-Etiology II

Chairs: N. Fiore, N. Hong

**11:40-12:00** A new potexvirus infecting babaco (*Carica pentagona*) and papaya (*C. papaya*) in Ecuador. R.A. Alvarez-Quinto, J.F. Cornejo, D.F. Quito-Avila

**12:00-12:20** A novel emaravirus associated with pear chlorotic leaf spot disease. H.Z. Liu, G.P. Wang, Z.K. Yang, N. Hong

**12:20-12:40** New cherry-adapted strain of Plum pox virus. S. Chirkov, P. Ivanov, A. Sheveleva, G. Osipov

**12:40-13:00** Identification and partial characterization of a new ilarvirus infecting *Prunus* sp. K. Efthimiou, P.G. Pappi, A. Olmos, T. Candresse, N.I. Katis, V.I. Malioqka

**13:00-14:30** Lunch break

**14:30-15:00 Invited lecture:** F. Di Serio (Istituto per la protezione sostenibile delle Piante, CNR, Italy) "Viroids infecting fruit trees: From Bioassays to Next Generation Sequencing"

## 15:00- 16:20 Oral Session 3- New and Emerging graft-transmissible pathogens and related diseases-Etiology III

Chairs: R.R. Martin, A. Marais

**15:00-15:20** Characterization of a new and distinct population of hammerhead viroid-like RNA detected by next-generation sequencing using total RNA from apple (*Malus domestica*) cv. Pacific Gala. A. Messmer, D. Sanderson, G. Braun, Serra, P., R. Flores, D. James

**15:20-15:40** Occurrence and genetic variability of elderberry carlaviruses infecting *Sambucus nigra* in the Czech Republic. D. Šafářová, K. Vavroušková, T. Zemánek, T. Candresse, M. Navrátil

**15:40-16:00** An un-designed Closterovirus infecting kiwifruit plants grown in China. S.H. Wen, C.X. Zhu, G.P. Wang, Z.K. Yang, N. Hong

**16:00-16:20** A novel member of the Luteoviridae associated with Raspberry leaf curl disease. P.L. Di Bello, A. Diaz-Lara, R.R. Martin

**16:20-16:50** Coffee break

## 16:50-17:50 Oral Session 4-New and Emerging graft-transmissible pathogens and related diseases-Etiology IV

Chair: I. Koloniuk

**16:50-17:10** *Mume virus A*: A new capillovirus from Japanese apricot (*Prunus mume*)  
A. Marais, C. Faure, S. Theil, T. Candresse

**17:10-17:30** The Geneva Complex – an interesting disease perspective based on the results of NGS analysis. D. James, J. Phelan, G. Jespersen

**17:30-17:50** Detection and characterization of fig viruses in Greece. C.L. Salsalou, L. Lotos, C. Valachas, A. Olmos, E.K. Chatzivassiliou, N.I. Katis, V.I. Maliogka

**17:50-19:20** *Poster session I (P1-P19)*

**Tuesday, 6 June**

**09:00-09:30 Invited lecture:** T. Candresse (INRA, University of Bordeaux, France) “A perspective on NGS use in plant virology and on implications for the safe movement of plant materials”

## 9:30-10:50 Oral Session 5-Detection and Characterization I

Chairs: J. Delano, H. Maree

**9:30-9:50** Evaluation of total RNA high-throughput sequencing for virus detection. R. Bester, M. Visser, J.T. Burger, H.J. Maree

**9:50-10:10** A high intra-host *Cherry virus A* (CVA) population heterogeneity detected in cherry trees in Slovakia. M. Glasa, L. Predajňa, N. Sihelská, Z. Vozárová, K. Šoltys

**10:10-10:30** NGS studies on fruit tree screenhouses and stock collections in Hungary. N. Czotter, T. Varga, D. Baráth, J. Molnár, J. Balássy, T. Deák, G.E. Tusnády, L. Kocsis, É. Preininger, J. Burgyán, É. Várallyay

**10:30-10:50** Luteoviruses in *Prunus* species: how many are there? T. Candresse, A. Marais, D. Šafářová, M. Navratil, R. Sorrentino, D. Alioto, C. Faure, L. Svanella-Dumas, S. Theil

**10:50-11:20** *Coffee break*

### **11:20-12:20 Oral Session 6-Detection and Characterization II**

**Chair: D. Šafářová**

**11:20-11:40** Study on the occurrence and phylogenetic relationships of pome and stone-fruit tree phytoplasmas in Greece. M.C. Holeva, E.M. Koutsoumari, P.E. Glynos, C.D. Karafila, E. Siderea, A. Toghias, J. Kagias, S. Ioannidou, Ch.Arampatzis

**11:40-12:00** New developments in the epidemiology of *Little cherry virus 1* and its occurrence in European Plum *Prunus domestica* L. in Belgium. R. Tahzima, S. Massart, G. Peusens, T. Beliën, K. De Jonghe

**12:00-12:20** Variability of *Strawberry crinkle virus*. E.T.M. Meekes, M. Hooftman, H. Konings, M.J.M. Ebskamp

**12:20-12:40** Virus and viroids infecting pear trees (*Pyrus communis* L.) in Chile. G. Medina, N. Quiroga, P. Méndez, A. Zamorano, N. Fiore

**12:40-14:00** *Lunch break*

**14:00-14:30 Invited lecture:** A. Bertaccini (University of Bologna, Department of Agricultural Sciences, Italy) 'Fruit trees and Phytoplasmas: A well settled association'

### **14:30-15:50 Oral Session 7- Detection and Characterization III**

**Chairs D. Skoric, A. Olmos**

**14:30-14:50** Germplasm as invaluable source of ribes infecting viruses. J. Přibyllová, J. Špak, I. Koloniuk, K. Petrzik

**14:50-15:10** Pear decline: The fate of Phytoplasmas in an Italian orchard. S., Paltrinieri, K. Troni, P.P. Bortolotti, R. Nannini, A. Bertaccini

**15:10-15:30** Viruses infecting cherry and sour cherry in the Czech Republic.

J. Špak, J. Přibyllová, O. Lenz, J. Fránová, I. Koloniuk

**15:30-15:50** Multilocus sequence typing of Croatian 'Candidatus Phytoplasma mali' strains. I. Križanac, J. Plavec, Z. Budinščak, D. Škorić, M. Šeruga Musić

**15.50-16.10** *Coffee break*

**16:10-17:30 Oral Session 8-Detection and Characterization IV**

**Chair: J. Špak, C. Varveri**

**16:10-16:30** Phytoplasma detection in hazelnut in Chile. *S. Perez Fuentealba, S. Paltrinieri, J. Guerrero, N. Fiore, A. Bertaccini*

**16:30-16:50** Detection and characterization of cherry viruses in Chile. *A. Zamorano, N. Quiroga, C. Fernández, L. Rivera, D. Soto, A.M. Pino, N. Fiore*

**16:50-17:10** Simultaneous detection of pome fruit tree viruses by triplex quantitative RT-PCR. *I. Malandraki, D. Beri, I. Isaioglou, A. Olmos, C. Varveri, N. Vassilakos*

**17:10-17:30** European stone fruit yellows phytoplasmas infecting apricot in Serbia and in Italy cluster mainly in two main MLT groups. *N. Contaldo, J. Stepanović, F. Pallara, A. Bertaccini, B. Duduk*

**17:45-20:00** *City Tour*

**21:00** *Scientific committee dinner*

**Wednesday, 7 June**

**09:00-18:00** *Scientific excursion*

Visit to Commercial Pome and Stone Fruit orchards in Veroia and Naoussa (District of Imathia)

- Vergina Archaeological site (Capital of Ancient Macedonia)
- Lunch in Veroia or Naoussa
- Return to Thessaloniki

**Thursday, 8 June**

**09:00-12:10** Workshop on 'Transport of plant propagation material through borders and the production of high quality (virus-tested) propagative material of Fruit trees and small fruits'. **Chair: I.E. Tzanetakis**

Each participant will present the current situation related to this issue in each own country.

1. **9:00-9:20** *Pascal Gentit, France*
2. **9:20-9:40** *Nicola Fiore, Chile*
3. **9:40-10:00** *Bob Martin, USA*
4. **10:00-10:20** *Constable Fiona, Australia*

**10:20-10:50** *Coffee break*

5. **10:50-11:10** *Hanno Maree, South Africa*
6. **11:10-11:30** *Delano James, Canada*
7. **11:30-11:50** *Christina Varveri, Greece*

**11:50-12:10** The importance and challenges of reference collections. *W. Menzel*

**12:10 -13:40** *Lunch break*

**13:40-15:40** Round table. *USDA-NCPN leadership via Skype or zoom*. Status quo and role of NGS in certification and quarantine. How are we approaching sequences vs viruses?

**15:40-16:10** *Coffee break*

**16:10-16:40** **Poster session II (P20-P37)**

**20:30** *Gala Dinner*

## Friday, 9 June

**09:00-09:30 Invited lecture:** *K. Kalantidis* (University of Crete, Department of Biology, Greece) "Disarming plant defense by suppressing DICER expression"

### 9:30-10:30 Oral Session 9- Pathogen-Host Interactions

**Chair: S. MacFarlane**

**9:30-9:50** Viral superfection in woody and herbaceous hosts. *I. Koloniuk, J. Fránová, J. Přebilová, K. Petržík, O. Lenz, P. Svoboda, H. Jakešová, J. Špak*

**9:50-10:10** UK survey and grafting studies of *Raspberry leaf blotch emaravirus*. *W.J. McGavin, S. Newman, J. Allen, S.A. MacFarlane*

**10:10-10:30** Interaction of the pathogen '*Candidatus* Phytoplasma Mali' with the plant host. *G. Konnerth, K. Krczal, B. Boonrod*

**10:30-11:00** *Closing ceremony*

**11:00-11:30** *Coffee break*

### **11:30 Official Meeting of ICVF**

1. Next meeting location with brief introduction of potential hosts
2. Replacement of Scientific Committee members
3. Other Issues

### **LIST OF POSTERS**

**P-1.** NGS STUDIES OF THE VIROME OF FIG TREES IN GREECE. *M. Kaponi, E. Vellios, K. Filippou, T. Sano*

**P-2.** DIVERSITY OF CHERRY VIRUS A GENOMES. *P. Kesanakurti, M. Rott*

**P-3.** SURVEY OF POTENTIAL CICADELLID VECTORS OF PHYTOPLASMAS IN SWEET CHERRY TREES IN KAHRAMANMARAS-TURKEY: A PRELIMINARY REPORT. *M. Gazel, K. Çağlayan, K. Kaya, H. Başpınar*

**P-4.** IDENTIFICATION OF DIFFERENT PHYTOPLASMAS INFECTING SWEET CHERRY TREES IN TURKEY. *M. Gazel, M. K. Çağlayan*

**P-5.** FIRST DETECTION OF EUROPEAN STONE FRUIT YELLOWS PHYTOPLASMA IN PEACH TREES ON THE TERRITORY OF CANTON OF GENEVA, SWITZERLAND. *A. Etropolska, F. Lefort*

**P-6.** DETECTION AND CHARACTERIZATION OF RASPBERRY BUSHY DWARF VIRUS IN DIFFERENT HOSTS IN TURKEY. *K. Caglayan, M. Gazel, E. Elçi, M. Viršček Marn, I. Mavric Pleško*

**P-7.** MOLECULAR CHARACTERIZATION AND GENETIC DIVERSITY OF PLUM POX VIRUS STRAINS IN THRACE REGION OF TURKEY. *K. Gürcan, S. Teber, O. Canbulat, K. Çağlayan*

**P-8.** THE PEAR PSYLLID CACOPSYLLA BIDENS: A PUTATIVE VECTOR OF 'CANDIDATUS PHYTOPLASMA PYRI' IN BULGARIA. *A. Etropolska, B. Jarausch, W. Jarausch, D. Burckhardt, G. Trenchev*

**P-9.** DETECTION AND CHARACTERIZATION OF THE COMPLETE GENOME OF THE FIRST CHERRY (C) STRAIN ISOLATE OF PLUM POX VIRUS DETECTED IN GERMANY IN SOUR CHERRY (PRUNUS CERASUS). *W. Jelkmann, D. Sanderson, C. Berwarth, D. James*

**P-10.** RUBUS YELLOW NET VIRUS AND BLACK RASPBERRY NECROSIS VIRUS, NEWLY DETECTED VIRUSES IN RASPBERRY PLANTATIONS IN REPUBLIC OF SERBIA. *A.S. Paunovic, D. Jevremović*

- P-11.** EX-POST ANALYSES OF PUBLIC DATABASES ALLOWED IDENTIFICATION OF A NOVEL VIRUS INFECTING PEACH. *B. Navarro, S. Zicca, F. Palmisano, F. Di Serio*
- P-12.** COLLECTION PATHOGENS OF HOPS. *P. Svoboda, I. Malirova*
- P-13.** HIGH THROUGHPUT SEQUENCING OF siRNAs AND VIRUS DIAGNOSTIC: DO SEQUENCE ANALYSIS STRATEGIES REALLY MATTER? RESULTS OF AN INTERNATIONAL PROFICIENCY TESTING. *S. Massart, H.J. Maree, I. Adams, M. Chiumenti, K. De Jonghe, I. Koloniuk, P. Kominek, J. Kreuze, D. Kutnjak, L. Lotos, T. Olivier, M. Pooggin, AB. Ruiz-García, D. Šafářová, P.H.H. Schneeberger, N. Sela, É. Várallyay, E. Vainio, E. Verdin, M. Westenberg, Y. Brostaux, T. Candresse*
- P-14.** MONITORING OF VECTORS PHENACOCCLUS ACERIS AND PSEUDOCOCCLUS MARITIMUS OF LITTLE CHERRY VIRUS 2 IN SWEET CHERRY ORCHARDS IN BELGIUM. *G. Peusens, R. Tahzima, K. De Jonghe, D. Bylemans, T. Beliën*
- P-15.** INDICATION THAT THE PLUM POX VIRUS P1 PROTEIN IS PREFERENTIALLY EXPRESSED IN THE ROOTS OF NICOTIANA BENTHAMIANA DURING EARLY STAGE OF INFECTION. *Z. Vozárová, Z. Šubr*
- P-16.** LONG-TERM FOLLOW-UP OF PPV-REC AND PPV-D IN AN EXPERIMENTAL PLUM ORCHARD. *D. Jevremović, A.S. Paunović, S. Dallot*
- P-17.** OCCURRENCE AND DISTRIBUTION OF CITRUS VIRUS AND VIROID DISEASES IN JORDAN. *M.N. Salem, A. Mansour, S. Abu-Romman, A. Abo-Sherbi, A. Abdeen*
- P-18.** IDENTIFICATION OF A NEW VITIVIRUS FROM BLUEBERRY. *T. Thekke-Vetil, T. Ho, J. Polashock, I.E. Tzanetakis*
- P-19.** PARTIAL SEQUENCE OF GOOSEBERRY VEIN BANDING ASSOCIATED VIRUS IN REDCURRANT IN SLOVENIA. *J. Lamovšek, I. Mavrič Pleško, D. Koron, A.B. Ruiz-García, M. Viršček Marn, A. Olmos*
- P-20.** APRICOT (PRUNUS ARMENIACA L.)—NEW HOST OF LITTLE CHERRY VIRUS 1. *D. Šafářová, C. Faure, T. Candresse, M. Navrátil, T. Nečas, A. Marais*
- P-21.** NOVEL RNA VIRUSES ASSOCIATED WITH APPLE RUBBERY WOOD AND APPLE FLAT LIMB DISEASES. *M. Rott, P. Kesanakurti, I. Boyes, C. Berwarth, H. Rast, W. Jelkmann.*
- P-22.** RESULTS OF SURVEILLANCE OF OCCURRENCE OF 'CANDIDATUS PHYTOPLASMA MALI' AND 'CANDIDATUS PHYTOPLASMA PYRI' IN NURSERIES OF REPUBLIC OF SRPSKA (BOSNIA AND HERZEGOVINA). *D. Delić, M. Radulović, B. Lolić, G. Đurić*
- P-23.** IDENTIFICATION OF AN RNA SILENCING SUPPRESSOR ENCODED BY THE GENOME OF LITTLE CHERRY VIRUS 1. *A. Katsiani, K. Katsarou, K. Kalantidis, N.I. Katis, V.I. Maliogka*
- P-24.** SEASONAL FLUCTUATION OF LITTLE CHERRY VIRUS 1 (LChV-1) TITER IN SWEET CHERRY CULTIVARS. *A. Katsiani, P. Pappi, A. Olmos, K.E. Efthimiou, V.I. Maliogka, N.I. Katis*
- P-25.** FULL GENOME SEQUENCING OF A DIVERGENT ISOLATE OF LChV-1 AND MONITORING OF THE VIRUS DERIVED siRNAs IN SWEET CHERRY OVER THE FOUR

SEASONS. *A.T. Katsiani, A. Olmos, T. Candresse, A.B. Ruiz-Garcia, N.I. Katis, V.I. Maliogka*

**P-26.** IDENTIFICATION OF A PRUNUS VIRUS F-LIKE VIRUS IN SWEET CHERRY. *L. Lotos, T. Candresse, A. Olmos, N.I. Katis, V.I. Maliogka*

**P-27.** INCIDENCE AND MOLECULAR VARIABILITY OF APPLE CHLOROTIC SPOT VIRUS IN POME FRUITS IN SLOVENIA. *M. Viršček Marn, I. Mavrič Pleško*

**P-28.** MOLECULAR DETECTION AND CHARACTERIZATION OF PHYTOPLASMAS IN ORNAMENTAL POMEGRANATES. *K. Caglayan, M. Gazel, M. Acioğlu*

**P-29.** EVALUATION OF THE SUSCEPTIBILITY OF APRICOT CULTIVARS TO PPV IN HIGH-CONTAINMENT GREENHOUSE. *Y. Brans, J. Castaing, K. Bresson*

**P-30.** THE FIRST DETECTION OF PLUM POX VIRUS IN WESTERN SIBERIA. *Y. Shneyder, M. Tikhomirova, O. Morozova, T. Zhivaeva., Y. Prikhodko*

**P-31.** DIAGNOSIS, VIRUS CLEANING AND CRYOPRESERVATION OF RASPBERRY, BLACKBERRY AND SHALLOT (RUB&AL). *Z. Zhang, C. Spetz, E. Lysøe, D.R. Blystad*

**P-32.** DETECTION AND MOLECULAR CHARACTERIZATION OF AN UNUSUAL VIRUS IN CHERRY. *S. Milusheva, J. Phelan, N. Piperkova, V. Nikolova, D. James*

**P-33.** H2020-MCSA-RISE-2016-VIRUS FREE FRUIT NURSERIES (VirFree). *V.I. Maliogka, N.I. Katis, D. Altenbach, K. Caglayan, C. Chondroudis, F. Codoner, A.T. da Cunha, F. Di Serio, B. Dichio, L. Formica, H. Ilbagi, K. Kalantidis, S. Li, A. Olmos, G. Pietersen, C. Ritzenthaler, E. Tanriver*

**P-34.** VIRTOOL: A NEXT GENERATION DATA ANALYSIS TOOL FOR DETECTION OF PLANT VIRUSES. *I. Boyes, M. Rott*

**P-35.** PCR OPTIMISATION IN A PROGRAMME TO MONITOR THE PRESENCE OF 'CANDIDATUS PHYTOPLASMA MALI', 'CA. P. PYRI' AND 'CA. P. PRUNORUM'. *M. Pastore, E. Stingo, V. Orologiaio, G. Consalvo, V. Graziano, T. Rosco, A. Salsano, G. Stella R. Griffo*

**P-36.** EVIDENCE OF CIRCULAR RNA ASSOCIATED WITH BLACKCURRANT LEAF CHLOROSIS ASSOCIATED VIRUS. *D. James, J. Phelan, D. Sanderson*

**P-37.** T-RECS: RAPID AND LARGE-SCALE DETECTION OF RECOMBINATION EVENTS AMONG DIFFERENT EVOLUTIONARY LINEAGES OF VIRAL GENOMES. *M. Tsimpidis, G. Bachoumis, K. Mimouli, Z. Kyriakopoulou, D.L. Robertson, P. Markoulatos, G.D. Amoutzias*