

# Monday, 6 June 2016

8:00 - 10:00: Registration, poster hanging, coffee

10:00 - 10:20: Opening

10:20 - 11:20: **M. Irwin** - Tribute to Mike Thresh

## Session 1 (part 1) – Etiology and diagnostic

*Moderator - Alberto Fereres*

11:20 **Keynote 1: J.K.Brown** - Considerations in molecular diagnostics development for emergent ssDNA-begomoviruses: a case study

12:00 **S1.1: M.Tepfer** - Deep sequencing of siRNAs for detection of known and unknown viral genomes in ornamental plants

12:20 **S1.2: E.Palanga** - Metagenomic-based screening and molecular characterization of cowpea-infecting viruses in Burkina Faso

12:40 - 14:20: Lunch

*Moderator - Jean-Michel Lett*

14:20 **S1.3: L.Lotos** - New insights into the etiology of pepper yellows disease

14:40 **S1.4: A.G.Blouin** - It is time to take advantage of that complementary strand

15:00 **S1.5: C.Desbiez** - The "PRSV cluster" of cucurbit-infecting potyviruses: molecular characterization, geographic distribution and potential epidemiological impact

15:20 **S1.6: M.N.Pearson** - Characterisation and transmission of New Zealand cherry leaf roll virus isolates

15:40 **S1.7: I.E.Tzanetakis** - Epidemiological aspects of rose rosette virus

16:00 - 18:30: Posters (odd N°) - coffee

19:00 - 21:30: Welcome cocktail



# Tuesday, 7 June 2016

## Session 2 – Evolution and molecular epidemiology

Moderator - Claude Bragard

- 8:30 **Keynote 2: F.García-Arenal** - Landscape heterogeneity and the evolution of plant-virus interactions
- 9:10 **S2.1: F.Fabre** - Joint estimation of effective population size and selection coefficient without neutral markers: method validation and application to experimental evolution of viruses
- 9:30 **S2.2: C.Lacomme** - Genetic diversity of PVY in potato: strain competition and ability to overcome resistance mechanisms
- 9:50 **S2.3: L.Tamisier** - Impact of selection, genetic drift and viral accumulation on the evolution of a plant RNA virus
- 10:10 - 10:40: Coffee break
- 10:40 **S2.4: Z.Belabess** - Agroecological and evolutionary factors driving the success emergence of a non-canonical tomato yellow leaf curl virus recombinant
- 11:00 **S2.5: W.J.Cuellar** - Molecular and biological characterization of a novel group of potexviruses lacking a TGB3 gene
- 11:20 **S2.6: D.Kutnjak** - Deep sequencing of small RNAs for studies of plant virus diversity and evolution
- 11:40 **S2.7: S.M.Gray** - Evolving disease dynamics of the potato virus Y complex affecting the U.S. potato crop: a group effort between selection pressures and farming practices.
- 12:00 **S2.8: S.Dallot** - Exploiting viral genetic diversity to uncover sharka dispersal at regional and local scales
- 12:30 - 14:00: Lunch

## Session 1 (part 2) – Etiology and diagnostic

Moderator - Varvara Maliogka

- 14:00 **S1.8: L.F.T. Mukwa** - Current status of occurrence, genetic diversity and epidemiology of banana (*Musa* spp.) viruses in Democratic Republic of Congo
- 14:20 **S1.9: H.Lecoq** - Two new whitefly-transmitted cucurbit viruses from Sudan with contrasting distribution patterns
- 14:40 **S1.10: A.Fox** - Are wild *Apiaceae* a reservoir of carrot virus epidemics?

- 15:00 **S1.11: L.T.T.Tran-Nguyen** - Cucumber green mottle mosaic virus in Australia- the story so far
- 15:20 **S1.12: R.A.A.Van der Vlugt** - A multiplex luminex xTAG-assay to distinguish between infectious and non-infectious cucumber green mottle mosaic virus on cucumber seeds
- 15:40 **S1.13: G.Loebenstein** - Starting a plant virus department and its development a personal experience – from test plants to molecular biology
- 16:00 - 19:00: Posters (even N°) - coffee
- 18:00 - 19:00: ICPVE Business Meeting

## Wednesday, 8 June 2016

### Session 3 – Virus vectors interactions

*Moderator - Stewart Gray*

- 8:20 **Keynote 3: S.Blanc** - Transmitted plant viruses can affect performances of starving aphid vectors
- 9:00 **S3.1: P.V.Pinheiro** – Increased lysosomal exocytosis in the aphid midgut decreases circulative virus transmission
- 9:20 **S3.2: J.Doumayrou** - Domains in the pea enation mosaic virus major coat protein required for virion assembly and aphid transmission
- 9:40 **S3.3: A.Fereres** - Visual and olfactory cues involved in the selection of virus-infected tomato plants by *Bemisia tabaci*
- 10:00 - 10:30: Coffee break
- 10:30 **S3.4: M.Verbeek** - Lettuce necrotic leaf curl virus, a member of a new subgroup in the genus *Torradovirus*?
- 10:50 **S3.5: K.De Jonghe** - Evaluating pospiviroid-host-vector interactions in Belgium
- 11:10 **S3.6: M.van Munster** - Water-stress can enhance the transmission of plant viruses by insect vectors
- 11:30 **S3.7: P.Trębicki** - Climate change: will plant viruses and insect vectors threaten future food production?
- 12:00 - 13:20: Lunch
- 13:30 - 20:00: Visit

# Thursday, 9 June 2016

## Session 4 (part 1) – Quantitative epidemiology and modelling

*Moderator - Roger Jones*

- 8:30 **Keynote 4: F.van den Bosch** - The role of vector spatial dynamics, pathogen dispersal by trade and grower behaviour on the success of regional disease control efforts.
- 9:10 **S4.1: M.Fuchs** - Spread of grapevine red blotch-associated virus in vineyards
- 9:30 **S4.2: B.S.Congdon** - *Pea seed-borne mosaic virus* epidemiology in a mediterranean-type environment
- 9:50 **S4.3: K.Berthier** - Mapping averaged pairwise information (MAPI): a new tool for landscape genetics on plant virus
- 10:10 **S4.4: V.Moodley** - Disease mapping and risk assessment of whitefly transmitted viruses infecting vegetable crops in South Africa
- 10:30 **S4.5: C.M.Malmstrom** - Crop-associated virus infection in a native perennial grass: aster model assessment of fitness effects
- 10:50 - 12:30: Posters - drinks
- 12:30 - 14:00: Lunch

## Session 5 (part 1) – Virus control

*Moderator - Nilsa Bosque Perez*

- 14:00 **Keynote 5: B.A.Coutts** - There is still much to learn about the epidemiology of common plant viruses
- 14:40 **S5.1: R.Srinivasan** - Three decades of managing tomato spotted wilt virus in peanut in southeastern United States
- 15:00 **S5.2: A.Gal-On** - Editing virus resistance in cucumber using CRISPR/Cas9 technology
- 15:20 **S5.3: S.J.Castle** - Insecticide effects on whitefly transmission and incidence of cucurbit yellow stunting disorder virus
- 15:40 **S5.4: A.Schoeny** - Combining genetic resistance and management of field margins to control virus epidemics in melon crops
- 16:00 - 17:00: Posters - coffee
- 17:30: IPVE2016 group photo
- 18:00 - 20:00: Popes' Palace visit
- 20:30 - 23:00: Gala diner - cruise on the boat "le Mireio"

# Friday, 10 June 2016

9:30 - 10:00: coffee

## Session 4 (part 2) – Quantitative epidemiology and modelling

*Moderator - Hanu Pappu*

- 10:00 **S4.6: M.J.Jeger** - The evolution of plant virus transmission pathways
- 10:20 **S4.7: B.Moury** - Determinants of host species range in plant viruses
- 10:40 **S4.8: R.A.C.Jones** - Epidemiology of *Potato spindle tuber viroid* in a remote subtropical irrigation area
- 11:00 **S4.9: N.A.Bosque-Pérez** - Virus infection in an endangered grassland habitat
- 11:20 **S4.10: P.Bernardo** - Virus accumulation in a native perennial prairie grass under development as a bioenergy feedstock
- 11:40 **S4.11: C.Lacroix** - Plant nutrient resources differentially alters two virus species dynamics
- 12:00 **S4.12: W.M.Wintermantel** - Reservoir hosts of cucurbit yellow stunting disorder virus and development of resistant melon

12:30 - 14:00: Lunch

## Session 5 (part 2) – Virus control

*Moderator - Hervé Lecoq*

- 14:00 **S5.5: P.R.Campbell** - Area wide management of insect vectored viruses in tomato crops
- 14:20 **S5.6: G.Thébaud** - Using sensitivity analyses to identify and optimize key parameters of sharka management strategy
- 14:40 **S5.7: M.Delêtre** - Going viral: using social network theory to explore the social dynamics of the cassava mosaic virus pandemics
- 15:00 **S5.8: J.P.Legg** - Community phytosanitation and the epidemiology of cassava viruses

15:20 - 15:45: Student awards

15:45 - 16:00: Farewell