

## MIÉRCOLES · 25 DE MAYO DE 2022

11:00h	Registration of participants
14:00h	Welcome Lunch - Reception (Museo Arqueológico de Murcia)
15:30h	Opening meeting

**D. Vicente Pallás Benet** (Presidente de la Sociedad Española de Fitopatología)  
**D. Juan José Alorcón Cabañero** (Director CEBAS-CSIC)  
**D. Alfredo Lacasa Plasencia** (Profesor IMIDA Protección Cultivos)  
**D. Pedro Gómez López** (Dr. Patología Vegetal CEBAS-CSIC)

### SESSION 1 · VIRUS DETECTION & EPIDEMIOLOGY

Chairpersons: Pedro Gómez & Vicente Pallás

16:00h Plenary talk "Next generation opportunities of high throughput sequencing for plant virus detection and characterization"

· Sébastien Massart · Liège University, Belgium

16:40h Short talks O1-1: "Harnessed plant viruses: towards a universal framework for virus synthetic genomics and high-throughput infection phenotyping"

· Fabio Pasin · IBMCP, CSIC-UPV, University of Padova

17:00h Break (30min)



O1-2: "Southern tomato virus in Spain: incidence and interaction with other viruses"

· Luis Galipienso · IVIA

O1-3: "Current status of potyviruses in watermelon and pumpkin crops in Spain"

· Celia De Moya-Ruiz · CEBAS-CSIC

O1-4: "Host adaptation and migration fluxes of viruses from melon crops and crop edge weeds"


· Ayoub Maachi · Abiopep SL

19:30h Murcia-Free Guided Tour, with free networking breakout session

## JUEVES · 26 DE MAYO DE 2022

### SESSION 2 · VIRUS ECOLOGY & EVOLUTION

Chairpersons: Santiago Elena & Israel Pagán

- 09:00h** Plenary talk     “Having it all: Is simultaneous optimization of plant virus vertical and horizontal transmission possible?”
- | · Israel Pagán · CBGP, UPM-INIA
- 09:40h** Short talks     O2-1: “Host age-dependent evolution of a plant RNA virus”
- | · Izán Melero · CSIC-UV
- O2-2: “Long-term monitoring and genetic dynamics of cucurbit aphid-borne yellows virus and watermelon mosaic virus in melon and zucchini crops”
- | · Pilar Rabadán · CEBAS-CSIC
- O2-3: “Cassava and Ugandan cassava brown streak virus, an attractive case of plant-pathogen coevolution”
- | · Rafael García López · CNB-CSIC
- O2-4: “How virus populations evolve and adapt to host’s epicode: the TuMV-Arabidopsis thaliana pathosystem”
- | · Silvia Ambrós · CSIC-UV
- 11:00h** Break and Posters (30min) 

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## SESSION 3 · SOURCES OF VIRAL RESISTANCE & SILENCING

Chairpersons: Carmen Simón & Francisco Tenllado

**11:30h** Plenary talk “Crosstalk interactions between innate immunity and viral infections in plants”

· César Llave · CIB-CSIC

O3-1: “Plant Virus Genome Is Shaped by Specific Dinucleotide Restrictions That Influence Viral Infection”

· Alfonso González de Prádena · CNB-CSIC

O3-2: “Sophisticated ways to deceive your host: Identifying the RNA silencing suppressor proteins of Sweet potato virus 2”

· Ornela Chase · CRAG, CSIC-IRTA-UAB-UB

O3-3: “Transcriptome analyses unveiled differential regulation of AGO and DCL genes by pepino mosaic virus strains”

· Cristina Alcaide · CEBAS-CSIC

O3-4: “RDR6 and Combined Activities of DCL2 and DCL4 Are Involved in RNAi-based Resistance to Potato Viruses induced by Topical Application of dsRNA”

· Francisco Tenllado · CIB-CSIC

O3-5: “Resistance to Zucchini yellow mosaic virus in melon accession IC 274006 is controlled by a recessive gene in chromosome 5”

· María López-Martín · COMAV-UPV

**14:00h** Lunch MAM-Terrace



## JUEVES · 26 DE MAYO DE 2022

### SESSION 4 · MOLECULAR PLANT/VIRUS/VECTOR INTERACTIONS

Chairpersons: Aránzazu Moreno, Eduardo Rodríguez Bejarano, Juanjo López-Moya & Alberto Fereres

**15:30h** Plenary talk    “Plant manipulation by Geminiviruses”

· Rosa Lozano-Durán · CPMB, Univ. Tübingen, Germany

**16:10h** Short talks    O4-1: “Unraveling the importance of vesicle trafficking for the movement of geminiviruses”

· Pablo Morales-Martínez · IHSM-UMA-CSIC

O4-2: “Whole genome, transcriptome, smallRNAome and methylome profiling during tomato- geminivirus interaction”

· Araceli G. Castillo · IHSM-UMA-CSIC

O4-3: “Molecular determinants underpinning the dynamic dual localization of a viral protein in the plant cell”

· Laura Medina-Puche · ZMBP, CAS

O4-4: “The role of epigenetics in plant immunity priming against viruses”

· Régis L. Corrêa · CSIC-UV

**17:30h** Break and Posters (30min) 

O4-5: “Revealing the molecular basis of the transmission of tomato chlorosis virus by Bemisia tabaci and Trialeurodes vaporariorum”

· Ana Cristina García-Merenciano · IHSM-UMA- CSIC

O4-6: “New host-virus interaction pathway: RNA N6-adenosine methylation”

· Mireya Martínez-Pérez · IBMCP, UPV-CSIC

O4-7: “The mysterious presence of an AlkB domain in the P1 protein of two members of the family Potyviridae”

· Adrián A. Valli · CNB-CSIC

## JUEVES · 26 DE MAYO DE 2022

O4-8: “Insights on the resistance to Cucumber mosaic virus in melon. Localization of the Vacuolar Protein Sorting 41 (CmVPS41) and search for interactors of the MP”

· Ana Montserrat Martín-Hernández · CRAG, CSIC-IRTA-UAB-UB, IRTA

O4-9: “S-glutathionylation of pepino mosaic virus coat protein: A switch modulating virion formation”

· Eduardo Méndez-López · CEBAS-CSIC

20:00h Dinner (Casino de Murcia)

## VIERNES · 27 DE MAYO DE 2022

### SESSION 5 · PLANT VIRUS CONTROL & BREEDING

Chairpersons: Montse Martín-Hernández & Pedro Martínez-Gómez

09:00h Plenary talk “Loss-of-susceptibility mutants in breeding plant virus resistant crop varieties”

· Miguel A. Aranda · CEBAS-CSIC

09:40h Short talks O5-1: “Breaking tomato yellow leaf curl virus resistance in Ty-1 encoding tomato plants associated to mixed infections with the crinivirus tomato chlorosis virus”

· Enrique Moriones · IHSM-UMA-CSIC

O5-2: “Obtaining pepper varieties resistant to Tobamovirus”

· Mikel Ojinaga · NEIKER

O5-3: “Involvement of different plant viruses in the activation of RNA silencing-related genes and the defensive response against Plum pox virus of ‘GF305’ peach (Prunus persica) grafted with ‘Garrigues’ almond (P. dulcis)”

· Bernardo Rodamilans · CNB-CSIC

## VIERNES · 27 DE MAYO DE 2022

05-4: “Carbon dots boost dsRNA delivery in plants and increase local and systemic siRNA production”

· Leonardo Velasco · IFAPA

11:00h Break and Posters (30min) 

### SESSION 6 · VIRUS-BASED BIOTECHNOLOGY

Chairpersons: Inmaculada Ferriol & Fernando Ponz

11:30h Plenary talk “Transient expression vectors in plants that are able to self-replicate and move systemically”

· José Antonio Darós · IBMCP, UPV-CSIC

12:10h Short talks 6-01: “Development of viral vectors based on alfalfa mosaic virus for the silencing of genes of interest in plants”

· David Villar-Álvarez · CSIC-UPV

6-02: “Targeted plant gene silencing based on an asymptomatic viroid”

· Joan Marquez-Molins · CSIC-UV, IBMCP

6-03: “Lessons from icosahedral and flexuous viral structures of whitefly-transmitted members of the genera Torradovirus and Ipomovirus”

· Inmaculada Ferriol · CRAG-UAB-UB-CSIC-IRTA, ICA-CSIC

6-04: “Turnip Mosaic virus nanoparticles: a versatile tool in biotechnology”

· Daniel A. Truchado · CBGP, UPM-INIA/CSIC

13:30h Review of the meeting  
Experience of applicant/members  
Student Awards to the best oral communication and best poster

14:00h Farewell Cocktail 