



# VIROID 2022: Viroids, Viroid-like RNAs, and RNA Viruses

14-16 September 2022 | Heraklion, Greece

## Program

Wednesday, 14 September 2022

09.00 - REGISTRATION

09:45 – Opening of VIROID 2022 – Welcome to the event

Session 1: *Host-viroid Interaction I*

Chair: **José- Antonio DARÒS**

10:00-10:20 Tribute to Ricardo Flores (1947-2020)

10.20-11.10 *Invited Lecture*

**Robert OWENS** [USDA/ARS, USA]

*Viroid Movement: A Window into Plant RNA Trafficking*

11:10-11:30 **Konstantina KATSAROU** [IMBB-FORTH, Greece]

*RNA Silencing and Viroids: A Complicated Relationship*

11:30-12:00 *Coffee Break*

12:00-12:20 **Purificación LISÓN** [IBMCP-Universitat Politecnica Valencia, Spain]

*Overexpression of the Translation Elongation Factor eEF1A Provokes Hyper-susceptibility to CEVd in Tomato Plants*

12:20-12:40 **Andrej SEČNIK** [University of Ljubljana, Slovenia]

*Cytosine Methylation Dynamics of Genomic DNA in Viroid-Infected Hop Plants (*Humulus lupulus* var. 'Celeia')*

12:40-14:00 *Lunch Break*

14:00-15:00 **POSTER SESSION 1**

Session 2: *Viroid Structure, Viroid Diseases and Viroid Biotechnology*

Chair: **Francesco DI SERIO**

15:00-15:20 **Charith Raj ADKAR-PURUSHOTHAMA** [Université de Sherbrooke, Canada]

*RNAi-mediated Targeting of the "Important" Region of PSTVd could Potentially Affect Viroid's Accumulation*

15:20-15:40 **Sebastjan RADIŠEK** [Slovenian Institute of Hop Research and Brewing, Slovenia]

*Symptomology of Citrus Bark Cracking Viroid on Hop and Impact to Slovenian Hop Production*

15:40-16:00 **José-Antonio DARÒS** [IBMCP-Universitat Politecnica Valencia, Spain]

*Viroid-based Production of Recombinant Circular Double-stranded RNA for RNAi-mediated Crop Protection against Pest and Pathogens*

16:00-16:20 **Maria KAPONI** [Hellenic Organization of Agricultural Insurances, Greece]

*Evaluating Aptamers in Methods of PSTVd Immunodetection*

16:20-18.00 *Free time for Posters & Exhibition*

18:00 *Departure*

19:00 *Gala Dinner – Winery*

## Thursday, 15 September 2022

### Session 3: Viruses and Viroid-like RNAs

Chair: Varvara MALIOGKA

09:00-09:50	<i>Invited Lecture</i> <b>Eugene V. KOONIN</b> [NIH, USA] <i>The Expanding Universe of Viroid-like Circular RNAs</i>
09:50-10:10	<b>Despoina BERIS</b> [Benaki Phytopathological Institute, Greece] <i>Differential Response of Pepper against two Evolutionarily Distinct Isolates of Potato Virus Y</i>
10:10-10:30	<b>Mark Paul Selda RIVAREZ</b> [National Institute of Biology, Slovenia] <i>Viruses and Viroid-like Circular RNAs from Tomato and Surrounding Weeds Agroecosystems</i>
10:30-11:00	<b>Coffee Break</b>
11:00-11:20	<b>Ali PASHA</b> [Julius Kuehn Institute, Germany] <i>Investigating the German Hop Virome</i>
11:20-11:40	<b>Beatriz NAVARRO</b> [Institute for Sustainable Plant Protection- CNR, Italy] <i>A Novel Citrus-associated Viroid-like RNA Containing Hammerhead Ribozymes in Both Polarity Strands</i>
11:40-12:00	<b>Marcos DE LA PEÑA</b> [IBMCP-Universitat Politecnica Valencia, Spain] <i>A World of Viral CircRNAs widespread in Fungi as the Potential Ancestors of Plant Viroids and Animal Deltaviruses</i>
12:00-13:00	<b>Lunch Break – Free time for Posters &amp; Exhibition</b>

### Session 4: Viroid Diagnosis

Chair: Hano MAREE

13:00-13:20	<b>Rachel BESTER</b> [Stellenbosch University, South Africa] <i>Validation of High-throughput Sequencing (HTS) for Routine Viroid Detection in Citrus</i>
13:20-13:40	<b>Tanja GUČEK</b> [Slovenian Institute of Hop Research and Brewing, Slovenia] <i>Diagnostic Techniques for Hop Viroids</i>
13:40-14:00	<b>Georgios VIDALAKIS</b> [UC Riverside, USA] <i>MiFi®: Microbe Finder for Detection of Viroids in Metagenomic Datasets</i>

### Session 5: Taxonomy, Epidemiology and new Species/Sequences

Chair: Ying WANG

14:00-14:30	<b>Michael Helmut HAGEMANN</b> [University of Hohenheim, Germany] <i>Epidemiology of Hop Viroids in Germany</i>
	<b>Excursion Knossos Museum - &amp; Departure</b>

## Friday, 16 September 2022

### Session 5: Taxonomy, Epidemiology and new Species/Sequences

Chair: Ying WANG

09:00-09:50	<i>Invited Lecture</i> <b>Sofia PARASKEVOPOULOU</b> [Robert Koch Institute, Germany] <i>The realm Ribozviria and the discovery of a mammalian deltavirus-like agent in the neotropical rodent species <i>Proechimys semispinosus</i></i>
09:50-10:10	<b>Francesco DI SERIO</b> [Institute for Sustainable Plant Protection- CNR, Italy]

	<i>On the New Species Demarcation Criteria for Viroid Classification</i>
10:30-10:50	<b>Halo MAREE</b> [Stellenbosch University, South Africa] <i>Characterization of a New Viroid Associated with Marbling and Corky Flesh in Japanese Plums</i>
10:50-11:20	<i>Coffee Break</i>
11:20-12:30	<b>POSTER SESSION 2</b>
12:30-14:00	<i>Lunch Break</i>
<i>Session 6: Host-Viroid interaction II</i>	
<i>Chair: Purification LISÓN</i>	
14:00-14:20	<b>Ying WANG</b> [Mississippi State University, USA] <i>A Remodeled RNA Polymerase II Catalyzing Viroid RNA-templated Transcription</i>
14:20-14:40	<b>Eirini BARDANI</b> [University of Crete, Greece] <i>Understanding the Role of the Bromodomain Protein VIRP1 in Plants and Pospiviroid Infectivity</i>
14:40-15:00	<b>Joan MÁRQUEZ-MOLINS</b> [Spanish National Research Council, Spain] <i>Multi Omic Analysis reveals that Viroid Infection induces a Temporal Reprogramming of Plant-defence Mechanisms at Multiple Regulatory Levels</i>
15:00-15:20	<i>Closing Remarks</i>
15.20-17:00	<i>Meeting of the International Study Group for Viroid and Viroid-like RNA Research</i>
17:00	<i>Departure</i>