

## Meeting Program

### Tuesday, 14<sup>th</sup> May 2024

**8:00-8:45** Registration of participants

**8:45-9:15** Opening addresses

**9:15-10:45** Epidemiology of Bois noir

Chairs: **Jordi Sabate** and **Michael Maixner**

9:15-9:45 **Invited speaker: Nicola Mori:** Bois Noir epidemiology and management

9:45-10:05 **Marta Martini:** Different '*Candidatus* Phytoplasma solani' strains in grapevine cv. Chardonnay and their association with bois noir symptom severity and evolution

10:05-10:25 **Jelena Jović:** *Hyalesthes obsoletus* and nettle-associated 'Ca. Phytoplasma solani' epidemiological cycle in Serbia and the Balkans: Is it closed and specific?

10:25-10:45 **Jelena Plavec:** Geographical and genetic diversity of 'Candidatus Phytoplasma solani' isolates in Croatian grape growing regions

**10:45-11:15** Coffee break & refreshments

**11:15-12:15** Genomic, Diversity of grapevine phytoplasmas

Chairs: **Martina Šeruga-Musić** and **Fabio Quaglino**

11:15-11:30 **Asem H. Abu Alloush:** Molecular genotyping of '*Candidatus* Phytoplasma solani' strains identified in different crops in Jordan

11:30-11:45 **Camilla Barbieri:** Genetic diversity in putative effector genes among FDp and FDp-related strains from northern Italy

11:45-12:00 **Xavier Foissac:** Genes encoding collagen-like repeats are promising Variable Numbers Tandem Repeats (VNTR) markers for the differentiation of Bois noir-associated '*Candidatus* Phytoplasma solani' strains

12:00-12:15 **Martina Šeruga Musić:** Diversity of effectors and potential mobile unites in '*Candidatus* Phytoplasma solani' genomes

**12:15-13:45** Lunch

**13:45-15:05** Biology of grapevine phytoplasma insect vectors

chairs: **Tatjana Cvrkovic** and **Gudrun Strauss**

13:45-14:15 **Invited speaker: Elena Gonella:** Manipulating microbial symbioses in phytoplasma vectors as a tool to interrupt grapevine yellows spread

14:15-14:30 **Miljana Jakovljević:** *Euscelis incisus* in Bois noir-affected vineyards of Istria (Croatia): vector competence and syntopic occurrence with *E. lineolatus*

14:30-14:45 **Anna Markheiser:** High-throughput monitoring of Auchenorrhyncha as an approach for a simultaneous detection of vectors and quarantine pests in viticulture

14:45-15:00 **Jelena Jović:** A plea for using the correct taxon names of phytoplasma vectors: a case of *Reptalus artemisiae*, a vector of '*Candidatus* Phytoplasma solani'

15:00-15:05 **Adélaïde Salvado:** EMERGREEN: Greenhouses Platform for Studying Emerging Plant Diseases

**15:05-15:30** Break & refreshments

**15:30-17:00** Round table on Bois noir

Animators: **Jelena Jović** and **Xavier Foissac**

**Topic 1:** New emerging vectors for Bois noir and flavescence dorée

**Topic 2:** Database for recording grapevine phytoplasma diversity and store biological resources and DNA library

## Wednesday, 15<sup>th</sup> May 2024

### 8:45-10:00 Interaction of grapevine phytoplasmas with insects and plants

Chairs: **Martina Seruga-Music** and **Jordi Sabate**

8:45-9:00 **Rebeka Strah**: Multi-level exploration of interactions between ‘*Ca. P. solani*’ and grapevine

9:00-9:15 **Christophe Debonneville**: Infection with Flavescence dorée phytoplasma results in a general repression of the lignin synthesis pathway in *Vitis vinifera* cv. Pinot noir

9:15-9:30 **Milana Mitrović**: New insights on the ‘*Ca. Phytoplasma solani*’ transmission by *Neoliturus fenestratus* (Cicadellidae: Deltocephalinae)

9:30-9:45 **Marina Drcelic**: Visualization of ‘*Candidatus Phytoplasma solani*’ SAP11-like and SAP54-like effectors interactions with plant transcription factors by using BIFC assay

9:45-10:00 **Marina Drcelic**: Preliminary results of BIFC assay: ‘*Candidatus Phytoplasma solani*’ protein Stamp interacts with insect-vector actin

### 10:00-10:30 Coffee break & refreshments

### 10:30-11:30 Other plant diseases associated to “*Candidatus Phytoplasma solani*”

Chairs: **Jelena Jović** and **Xavier Foissac**

10:30-10:45 **Jordi Sabaté**: Vectors, hosts and isolates of ‘*Candidatus Phytoplasma solani*’ in Spain

10:45-11:00 **Natasha Witzak**: Diversity of ‘*Candidatus Phytoplasma solani*’ in potato and grapevine in Germany

11:00-11:15 **Michael Kube**: Genomics of the SBR-associated ‘*Candidatus Phytoplasma solani*’ driving the Outbreak in Germany

11:15-11:30 **FilizRanda-Zelyüt**: Genetic diversity of ‘*Candidatus Phytoplasma solani*’ infecting Cucurbit in Turkey revealed using multilocus sequence typing analysis

11:30-11:45 **Jidong Li, Assunta Bertaccini**: Grapevine cultivation and “Bois noir” in China – lessons from other phytoplasma diseases

### 11:45-12:00 Concluding remarks: Jelena Jović and Xavier Foissac

12:00-14:00 **Lunch**

13:00-16:00 **Closed meeting PNDV project RENOV (in French)**

16:30-19:00 **Visit of permanent exhibition of Cité du Vin**

19:00-22:00 **Social dinner at restaurant “Le [7]” at the top of Cité du Vin**

## Thursday, 16<sup>th</sup> May 2024

8:30-8:45 **Speeches on challenges posed by grapevine yellows to research and viticulture Representative of ISVV and Marie Descotis-Bonnaud (Chambre d’agriculture de Gironde-CIVB)**

### 8:45-9:45 Pro-AECOGY-Epidemiology of Flavescence dorée

chairs: **Nataša Mehle** and **Sylvie Malembic-Maher**

8:45-9:00 **Attilio Rizzoli**: From landscape to cultivated compartments: a proactive approach for the early detection of Flavescence dorée

9:00-9:15 **Jelena Jović**: Preliminary data on the natural reservoir plants and insect carriers of Flavescence dorée and related phytoplasmas in Croatia

9:15-9:30 **Tatjana Cvrković**: New insights on Flavescence dorée epidemiology in Serbia

## 6<sup>th</sup> European Bois noir workshop – 1<sup>st</sup> International Pro-AECOLOGY Conference 2024

9:30-9:45 **Nataša Mehle:** Grapevine Flavescence dorée phytoplasma map genotypes associated with outbreaks in Slovenian vineyards

**9:45-10:15 Coffee break & refreshments**

**10:15-11:15 Pro-AECOLOGY-Innovative and sustainable management of grapevine yellows**

Chairs: **Esmeraldina Souza** and **Gianfranco Romanazzi**

10:15-10:45 **Invited speaker: Valerio Mazzoni:** Vibrational mating disruption and other techniques of behavioral manipulation against grapevine yellows' vectors

10:45-11:00 **Abdelhameed Moussa:** Evaluation of biostimulant effectiveness in "bois noir" control in vineyards

11:00-11:15 **Francesca Canuto:** RNAi to cope with flavescence dorée phytoplasmas vectors: insights on plant-mediated delivery and in-insect degradation of dsRNAs

11:15-11:20 **Céline Abidon:** RENOV project: ecological reservoirs and management of Bois Noir in the French vineyards

**11:20-12:15 Round table on Pro-AECOLOGY**

Animators: **Gianfranco Romanazzi** and **Erika Orešek**

**Topic 1:** Vineyard Management and grapevine yellows control

**Topic 2:** How to manage FD with lower insecticide use?

**12:15-13:45 Lunch**

**13:45-14:30 Pro-AECOLOGY- Surveillance and diagnosis of grapevine yellows**

Chairs: **Nataša Mehle** and **Oliver Schumpp**

13:45-14:00 **Marianne Loiseau:** Validation of methods for Flavescence dorée phytoplasma *sensu stricto* identification through Test Performance Studies

14:00-14:10 **Sylvie Malembic-Maher:** A DNA-capture approach for detection and genome-wide sequencing of Flavescence dorée phytoplasma

14:10-14:30 **Hola Kwame-Adrakey:** Enhancing Control and Surveillance of Flavescence Dorée in Bordeaux and Champagne Vineyards using spatio-temporal models

**14:30-17:00 Pro-AECOLOGY-Breeding grapevine for resistance traits to phytoplasmas and insect vectors**

Chairs: **Cristina Marzachi** and **Sandrine Eveillard**

14:30-15:00 **Invited speaker: Saskia Hogenhout:** Unlocking Phytoplasma Strategies: A Path to Enhanced Crop Resistance and Biotechnological Breakthroughs

**15:00-15:30 Break & refreshments**

15:30-15:45 **Nadia Bertazzon:** The unique defense response of Tocai Friulano cultivar to Flavescence Dorée

15:45-16:00 **Christophe Garcion:** Looking for plant targets of Flavescence dorée phytoplasma effectors

16:00-16:15 **Loreen Larroquet:** Insights into physiological responses of different grapevine varieties to Flavescence Dorée infection: an integrated approach

16:15-16:30 **Sabrina Palmano:** Exploring grapevine genetic resistance traits against Flavescence dorée

16:30-17:00 **Gunter Bräder:** Effector proteins in '*Candidatus* Phytoplasma solani'

**17:00-17:15 Concluding remarks: Sylvie Malembic-Maher and Xavier Foissac**