MONTPELLIER VINE & WINE SCIENCES
INTERNATIONAL SEMINAR

Sharing Knowledge & Designing Research Programs to Address Key Challenges of the Vine-Wine Sector

PROGRAM October 11-12-13, 2022
# PROGRAM OVERVIEW

**Sharing Knowledge & Designing Research Programs to Adress Key Challenges of the Vine-Wine Sector**

## TUESDAY 11th OCTOBER

**08:00 AM**
- Welcome coffee

**09:00 AM**
- Opening speech

**10:15 AM**
- Coffee break

**12:00 AM**
- Lunch

**02:00 PM**
- Building Quality
  - Claudio Pastenes - Universidad de Chile
  - Justin Lashbrook - Stellenbosch University
  - Véronique Cheynier - INRAE

**02:50 PM**
- Biodiversity
  - Cristina Laczano - UC Davis
  - Evodia Setati - Stellenbosch University
  - Florian Bauer - Stellenbosch University

**04:30 PM**
- Visits of labs

## WEDNESDAY 12th OCTOBER

**09:00 AM**
- Amphitheater 208

**10:15 AM**
- Coffee break

**12:00 AM**
- Lunch

**02:00 PM**
- Poster Session

**03:30 PM**
- Amphitheater 208

**05:00 PM**
- Workshops

## THURSDAY 13th OCTOBER

**09:00 AM**
- Amphitheater 208

**10:15 AM**
- Coffee break

**12:00 AM**
- Lunch

**02:00 PM**
- Castle hall

**04:00 PM**
- Synthesis of Workshops

## FRIDAY 14th OCT.

**08:15 AM**
- Tourism and visit of a winery

**12:00 AM**
- Lunch

**01:30 PM**
- Visit of a Winery

**04:00 PM**
- Return to Montpellier at 05:00 PM
**Tuesday 11th October 2022**  
Amphitheater 208

**09:00-09:20 AM**  
**Opening speech**  
- Philippe Augé - Président de l'Université de Montpellier, France  
- Fabienne Remize - UMR SPO, Université de Montpellier, France  
- Patrice This - UMR AGAP, INRAE, France

**Reduction of inputs**  
**Moderator:** Bruno Blondin - Institut Agro Montpellier, France

**09:20-09:45 AM**  
- Microbiological approaches to reduce bentonite requirements  
  Benoit Divol - Stellenbosch University, South Africa

**09:45-10:10 AM**  
- How to cultivate grape without pesticide, the Vitae project  
  Hervé Hannin - UMR MOISA, Institut Agro Montpellier & François Delmotte - UMR SAVE, INRAE, France

**10:15-10:45 AM**  
Coffee break

**Climate Change: Adaptation and mitigation**  
**Moderator:** Hervé Hannin - Institut Agro Montpellier, France

**10:45-11:10 AM**  
- A global overview on adaptive strategy to climate change of the wine industry  
  Jean-Marc Touzard - UMR Innovation, INRAE, France

**11:10-11:35 AM**  
- Characterization of genomic diversity in Vitis  
  Dario Cantu - UC Davis, USA

**11:35-12:00 AM**  
- Genetic diversity of the local criolla germplasm and adaptation strategies to a changing environment in Chile  
  Patricio Hinrichsen - INIA La Platina, Chile

**12:00-02:00 PM**  
Lunch

**Building quality**  
**Moderator:** Fabienne Remize - UMR SPO, Université de Montpellier, France

**02:00-02:25 PM**  
- Building authenticity in the wine sector: a narrative analysis of newcomers’ stories  
  Sarah Mussol - MRM, Université de Montpellier, France

**02:25-02:50 PM**  
- Varietal thiols: from vine to wine  
  Aurélie Roland - UMR SPO, Institut Agro Montpellier, France

**02:50-03:15 PM**  
- Enzyme treatment enhances astringency through decreasing polysaccharide and increasing polyphenolic content in Cabernet Sauvignon wines  
  John Moore - Stellenbosch University, South Africa

**Biodiversity, microbiomes and ecosystems**  
**Moderator:** Aurélie Metay - UMR ABSYS, Institut Agro Montpellier, France

**03:15-03:40 PM**  
- Conserving biodiversity and ecosystem services in vineyards through agroecology  
  Andrés Muñoz-Sáez - Universidad de Chile, Chile

**03:40-04:05 PM**  
- Microbial interactions between grapevine pathogens and the leaf microbiome  
  Corinne Vacher - UMR BIOGECO, INRAE, France

**04:05-04:30 PM**  
- Microbial flux from grape to wine  
  Jean-Luc Legras - UMR SPO, INRAE, France

**04:30-05:00 PM**  
Visit of labs
**Wednesday 12th October 2022**

**Building Quality**

**Moderator:** Laurent Torregrosa - UMR LESPE, Institut Agro Montpellier, France

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>09:00-09:25 AM</td>
<td><strong>Interplay of water deficit and grape berry chemical composition</strong></td>
</tr>
<tr>
<td></td>
<td>Claudio Pastenes - Universidad de Chile, Chile</td>
</tr>
<tr>
<td>09:25-09:50 AM</td>
<td><strong>Metabolic QTL analysis for characterisation of the genetic potential of grapevine flavour formation</strong></td>
</tr>
<tr>
<td></td>
<td>Justin Lashbrook - Stellenbosch University, South Africa</td>
</tr>
<tr>
<td>09:50-10:15 AM</td>
<td><strong>Phenolic compounds, from grape to wine</strong></td>
</tr>
<tr>
<td></td>
<td>Véronique Cheynier - UMR SPO, INRAE, France</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:15-10:45 AM</td>
<td>Coffee break</td>
</tr>
</tbody>
</table>

**Biodiversity**

**Moderator:** Jean-Luc Legras - UMR SPO, INRAE, France

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:45-11:10 AM</td>
<td><strong>Effects of regenerative management on vineyard soil biodiversity and climate change mitigation</strong></td>
</tr>
<tr>
<td></td>
<td>Cristina Lazcano - UC Davis, USA</td>
</tr>
<tr>
<td>11:10-11:35 AM</td>
<td><strong>Inter-row cover crop applications and their influence on the soil microbiome</strong></td>
</tr>
<tr>
<td></td>
<td>Evodia Setati - Stellenbosch University, South Africa</td>
</tr>
<tr>
<td>11:35-12:00 AM</td>
<td><strong>Ecological patterns and molecular signatures in fermentation ecosystems</strong></td>
</tr>
<tr>
<td></td>
<td>Florian Bauer - Stellenbosch University, South Africa</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Lunch</th>
</tr>
</thead>
<tbody>
<tr>
<td>12:00-02:00 PM</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Time</th>
<th>Poster Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>02:00-03:30 PM</td>
<td></td>
</tr>
</tbody>
</table>

**Workshops #2**

1. **Design grapevine systems to reduce inputs and increase biodiversity**
   - Facilitator: Aurélie Métay - UMR ABSYS, Institut Agro Montpellier, France

2. **High throughput tools for chemical characterization of must quality**
   - Facilitator: Aurélie Roland - UMR SPO, Institut Agro Montpellier, France

3. **Breeding resistant variety**
   - Facilitators: Laurent Torregrosa - UMR LEPSE, Institut Agro Montpellier, France
   - Patrice This - UMR AGAP, INRAE, France

4. **Reconceptualising agritech-led On-Vineyard Experimentation**
   - Facilitators: James Taylor - UMR ITAP, INRAE, France
   - Bruno Tisseyre - UMR ITAP, Institut Agro Montpellier, France
Thursday 13th October 2022
Amphitheater 208

Climate change adaptation and mitigation
Moderator: Thierry Simonneau - UMR LEPSE, INRAE, France

09:00-09:25 AM • Temperature dynamics and impact on cold hardiness, deacclimation, and budbreak phenology
   Jason Londo - Cornell University, USA

09:25-09:50 AM • Breeding of drought resistant cultivars - Patrice This - UMR AGAP, INRAE, France

09:50-10:15 AM • Integrated grape-to-wine studies to evaluate adaptation and resilience of grapevine scion/rootstocks to water limitation - Melane Vivier - Stellenbosch University, South Africa

10:15-10:45 AM Coffee break

Reduction of inputs
Moderator: James Taylor - UMR ITAP, INRAE, France

10:45-11:10 AM • Developing a satellite image-based sampling protocol to improve the efficiency of nutrient monitoring in vineyards - Justine Vanden Heuvel - Cornell University, USA

11:10-11:35 AM • Tools to discover resistance phenotypes and haplotypes in diverse germplasm
   Lance Cadle-Davidson - USDA, Cornell University, USA

11:35-12:00 AM • Reducing inputs, adapting to climate change and supporting the agro-ecological transition of grapevine systems through biodiversity management
   Aurélie Métay - UMR ABSYS, Institut Agro Montpellier, France

12:00-02:00 PM Lunch

02:00-04:00 PM Workshops #2

1. Balance of nutritional compounds in grape must and control of fermentation
   Facilitators: Erick Casalta - UMR SPO, INRAE, France
   & Claudio Pastenes - Universidad de Chile, Chile
   Bâtiment 9, room 301

2. Developing an international consortium on Grape sequencing
   Facilitator: Patrice This, UMR AGAP, INRAE
   Bâtiment 9, room 302

3. Resilience and risk management in relation to climate change
   Facilitators: Jean-Marc Touzard - UMR Innovation, INRAE, France
   & Nina graveline - UMR Innovation, INRAE, France
   Bâtiment 9, room 304

4. Can Functional Structural Plant Models help address current challenges in vineyards?
   Facilitators: Thierry Simonneau - UMR LEPSE, INRAE, France & Benoît Pallas - UMR LEPSE, INRAE, France
   Bâtiment 9, room 305

04:00-05:00 PM Synthesis of Workshops

19:00 PM Diner at ‘Maison de la Lozère’, downtown Montpellier

Friday 14th October 2022
Tourism and visit of a winery

08:15 AM • Meeting point (Institut Agro entrance)
08:30 AM • Bus departure
10:00-12:00 AM • Guided tour of Saint-Guilhem-le-Désert (medieval town)

12:00-01:30 PM Lunch

02:00-04:00 PM • Visit of a Winery (Domaine du Causse d’Arboras, AdVini)
   • Return to Montpellier at 05:00 PM