

## ADVANCED TRAINING IN METHODS FOR PLANT GENOMICS (MePlaG)

You will participate in a **5 days advanced training on the methods for plant genomics**.

The training will focus on the **specificities of protocols for plants**.

It will include **theoretical presentations, Q&A, hands-on session and visits of facilities**.

### Detailed program

#### Logistics

**Every morning between 9 a.m. and 9:15 a.m.**, a **shuttle** will be waiting for you in front of the **Heliotel hotel**.

The **conference sessions** will take place **in the ARCAD building** (10, rue Arthur Young) and will **begin at 9:30 a.m.**

Every day, **meals** will be taken **between 12 p.m. and 1 p.m. at the CIRAD restaurant**.

### Monday February 26: DNA Day (ARCAD, CIRAD, University)

- 9h30 Welcome in the **ARCAD** building
- **Visit** to the laboratories (DNA, NIRS Phenotyping, In Vitro and CRB)
- 11h00 Conference/exchanges: the DNA of the plant cell (*Sylvain Santoni*)
- Demonstration of robotic protocols, KingFisher Flex
- **14h00 Visit** to the CIRAD DNA laboratory (*Pierre Mournet*)
- Robotic protocol demonstrations, Beckman Biomek
- **16h00 Visit** to the laboratories: environmental DNA (trace, degraded, archaeological) (*Christelle Tougard*)

### Tuesday February 27: RNA Day (ARCAD)

#### **Conferences/exchanges**

- 9h30 Conference: RNAseq and developments (*Sylvain Santoni*)
- 10h30 Conference: Chemistry/biochemistry of plant cell RNA (*Charles Romieu*).
- Demonstration, RNA purification and RNA analysis tools
- 14h00 Conference: full-length RNA sequencing (IsoSeq), obtaining and analyzing data (*Nathalie Chantret*).
- 15h00 Conference: small RNAs, obtaining and use (*James Tregear*).

### Wednesday February 28: Sequencing Day (MGX, ARCAD)

- **10h00 Visit** to the Montpellier Genomix platform
- Conference: very high throughput sequencing tools/protocols (*Hugues Parrinello*)

#### **ARCAD, Conferences/exchanges**

- 14h00 Conference: "all-terrain" sequencing, MiNion (*François Sabot*)
- 15h00 Conference: long read sequencing of whole genome, case of grapevine (*Roberto Bacilieri*)
- 16h00 Conference: Tools for reducing genomic complexity: Gene Capture (*Sylvain Santoni*)

## Thursday February 29: Genotyping Day (ARCAD, CEFE)

### Conferences/exchanges:

- 9h30 Conference: Kinship relationship between grape cepages (*Thierry Lacombe*)
- 10h30 Conference: Low-throughput genotyping tools adapted to plant breeding: SNP Kaspar (*Sylvain Santoni*)
- 11h30 Conference: Tools for analysing unknown diversity (GBS). The history of citrus (*Franck Curk*)
- 14h00 Conference: Plant Methyl genome (*Aline Muyle*)
- 15h00 Conference: Metabarcoding and trace DNA. Plant diet for insects (*Jean François Martin*)

### Visit:

- **16h00 Visit:** [Experimental field, CEFE](#) (Campus CNRS Rt Mende) (*Thierry Mathieu / François Vasseur*)

**20h30 Friendly invited dinner! See below! \***

## Friday March 1st: Extended Genotype Day (ARCAD, ECOTRON)

### Conferences / exchanges :

- 9h30 Conference: Metabarcoding analyses: rhizosphere and phyllosphere (*Pascal Alonso*)
- 10h30 Conference: Meta-genomics: Pathobiome (*Sébastien Cunnac*)
- 10h30 Conference: Genetic and transcriptomic analysis: Cocoa tree pathosystem (*Fabienne Micheli*)

### Visit:

- **14h00 Visit (option):** [ECOTRON, CNRS](#) (*Alex Milcu*)

## SOCIAL LIFE !

### \*Friendly evening meal

**On Thursday February 29 in the evening, Biopolis invites you to participate in a friendly and musical dinner at the restaurant:**

**Gazette Café, 6 rue Levat, Montpellier** (near the train station Gare St Roch)

**A shuttle will pick you up at 8:00 p.m. in front of the Heliotel hotel**  
or you can join us **at Gazette Café from 8:30 p.m.**

## YOUR CONTACTS @ MONTPELLIER

### Organiser:

**Sylvain Santoni (AGAP)** [sylvain.santoni@inrae.fr](mailto:sylvain.santoni@inrae.fr) +33 6 30 85 83 30

😊 **Se for preciso alguma coisa :**

**Paula Dias (CEFE / coordin. Biopolis FR)** [paula.dias@cefe.cnrs.fr](mailto:paula.dias@cefe.cnrs.fr) +33 6 82 17 08 25

## MEPLAG PARTICIPANTS FROM PORTUGAL

Susana Lopes	(CTM)	Manuel Curto	(PlantBio)
Diana Castro	(CTM)	Helena Carvalho	(PlantN)
Mariana Almeida	(CTM)	Raquel Tavares	(PlantEvol)
Patricia Ribeiro	(CTM)	Monica Moura	(Biolsles & PlantEvol)
Sara Freitas	(PlantBio)		

## MEPLAG SPEAKERS @ MONTPELLIER

Alex Milcu	<a href="mailto:alex.milcu@ecotron.cnrs.fr">alex.milcu@ecotron.cnrs.fr</a>	Jean-Francois Martin	<a href="mailto:jean-francois.martin@supagro.fr">jean-francois.martin@supagro.fr</a>
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## VISITED FACILITIES



### AGAP

(Amélioration Génétique et adaptation des plantes méditerranéennes et tropicales)

<https://umr-agap.cirad.fr/>



**ARCAD** (Agropolis Resource Centre for Crop Conservation, Adaptation and Diversity)

<https://www.arcad-project.org/about-arcad>



**CEFE** (Centre d'Ecologie Fonctionnelle et Evolutive)

<https://www.cefe.cnrs.fr/fr/>

**CEFE Experimental platform (Terrain d'expériences)** <https://www.cefe.cnrs.fr/fr/pf/te>



**ECOTRON – CNRS** (European Ecotron of Montpellier)

<https://www.ecotron.cnrs.fr/>



**Plateforme MGX** (Genomix @BioCampus Montpellier)

<https://www.mgx.cnrs.fr/>

## TIPS & TRICKS 1

### Public transportation in Montpellier

**Official web site:** <https://www.tam-voyages.com/index.asp>

Google Play / App Store **M'Ticket application** :

[https://www.tam-voyages.com/presentation/?rub\\_code=52](https://www.tam-voyages.com/presentation/?rub_code=52)

It allows to buy ticket directly with you phone.

**Application TAM (Transports in Montpellier):** <https://www.tam-voyages.com/index.asp>

Useful for finding maps and information on the transportation network.

**An interactive guide for touristic activities downtown using Tram network:**

<https://patrimoine.tam-voyages.com/>

## TIPS & TRICKS 2

### Discover Montpellier !

**Tourism information web site:** <https://www.montpellier-tourisme.fr/>

You can buy a CITY PASS : <https://www.montpellier-france.com/traveller-information/city-card/>

**Consider having a look at:**

#### **Jardins des Plantes**

<https://www.montpellier-tourisme.fr/decouvrir/millenaire/les-incontournables/jardin-des-plantes/>

#### **Esplanade royale du Pérou**

<https://www.montpellier-tourisme.fr/decouvrir/millenaire/les-incontournables/place-royale-du-peyrou/>

#### **Odysseum**

(a large open modern commercial place with plenty of French brands and coffee bars): <https://odysseum.klepierre.fr/histoire/>

Here you can find the **Montpellier Aquarium**, a **Planetarium** and the **city ice rink**.

**Polygone shopping center:** <https://www.polygone.com/>

In particular, you will find there (outside, northern access) the **Sauramps**

**booksellers:** <https://www.sauramps.com/>

**For easy shopping**, you can simply go by walk in the **Old Center Town**, around **Place de la Comedie**, preferably heading North (deep in the old town).