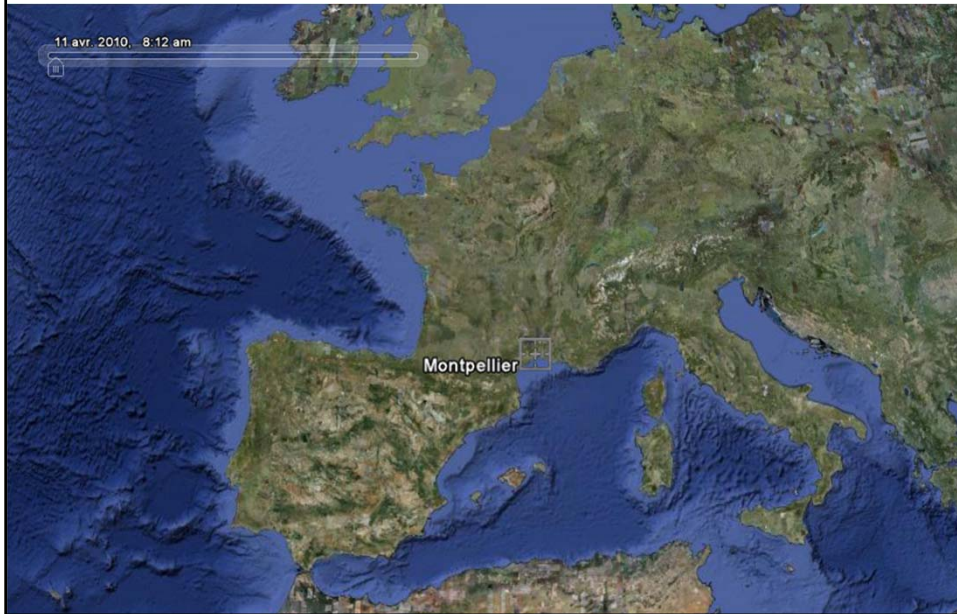


## **MEME - Montpellier site**



## **Montpellier site**





## Montpellier Site

300 000 inhabitants

53 300 students; 3200 researchers

5 universities or schools (one of the first schools of medicine in Europe)

12 research organizations (10 national)

### **Evolution and Ecology (including Agronomy)**

- **4000 students (out of 53 300)**  
(620 PhD students)
- **2000 scientists** (out of 3 200)
- **7 national research organisations**  
(Cemagref, CIRAD, CNRS, Ifremer, INRA, CIRAD, IRD) (out of 12)
- **2 international research organisations** (USDA and CSIRO)

### Structure of the **French Master programme** in Ecology and Biodiversity

M1S1 : Mid-September to mid-December : courses

M1S2 : 23 January to 17 February: courses

March to mid-June : research

M2S1 : Mid-September to mid-January: courses

M2S2 : Mid-January to mid-June : research

Note: MiSj = semester j in course year i

Hence: M1S2 = second semester of first year

## Structure of MEME

M1S1 – until mid-February : courses  
(in this semester MEME students are still  
in Groningen or Uppsala

M1S2 - mid-February to end of March : courses  
- April to end of June : research

M2S1 – courses

M2S2 – research

## M1 S2 in Montpellier

- 1.5 months : courses (10 or 15 ECTS ?)
- 3 months: research (15 or 20 ECTS ?)

*10 ECTS for courses and 20 ECTS for research sounds more logical, but French students get 15 ECTS for 3.5 months of research...*

One possibility : no courses ?

## M1S2 : MEME courses

1. How to write a scientific paper (Michael Hochberg, ISEM)
2. Hot topics in evolutionary ecology (Doyle McKey, CEFE)
3. Population genetics (Yannis Michalakis, MIVEGEC)
4. Modelling in ecology and evolution (Sandrine Maurice, ISEM)
5. Statistics (Céline Devaux, CEFE)
6. Advanced genetic data analysis (Renaud Vitalis and Arnaud Estoup, INRA)
7. Seminars in Evolution and Ecology (1h to 2h each week)
8. French lessons (special lectures)

## M1S2 : MEME research

Research : **April to end of June**

- **End of April** : introductory report (4 pages) and oral defense (7' + 5' discussion)
- **Early July** : report (10 pages text) and oral defense (10' + 5' discussion) in front of a committee (including Doyle McKey, Mike Hochberg, Céline Devaux, Yannis Michalakis, Isabelle Olivieri + guests).

## Next semester (M2S1) :

Research : from **mid-September to mid-February**  
(5 months including holidays)

- **End of October** : introductory report (5 pages) and oral defense (7' + 5' discussion)
- **Mid-February** : report (20 pages text) and oral defense (15' + 10' discussion) in front of a committee.

*Would be nice if some students from the new cohort could attend the defense, but logistic (housing) problems...  
(maybe can be sorted out)*

## Next semester (M2S1) :

(Deniz, Marios, Susan, Nikolas, Katie, Foteini, Andrea, Eileen)

If you want to meet other Master Students and visit labs :  
September 12 - 16

M2S1 courses start on September 19 (in French !)  
– *Speciation* (Thomas Lenormand and Isabelle Olivieri) (9h30-12h30)

Mixer with former teachers : when everybody is around. Maybe  
Friday September 23, after the Seminar ???

Other Mixers during evenings.

## Final semester (M2S2) :

Research : from **mid-February to mid-July** (5 months including holidays)

- **End of March** : introductory report (5 pages) and oral defense (7' + 5' discussion)
- **Mid-July or August (Summer school)** : report (20 pages text) and oral defense (15' + 10' discussion) in front of a committee. *(to be discussed)*
- *Problem : PhD grant applications and interviews from Doctoral schools in France are usually 20-30 June.*

## Research in Montpellier

- **12 research organisations (2000 scientists)**
- **Biodiversity Institute website – 1 to 4 seminars a week (often in english)**

## 4 Main research centers

(100-300 researchers in each)

- Centre d'Ecologie Fonctionnelle et Evolutive (CEFE) (ask Eva, Mathilde, Paul, Patrick)
- Institut des Sciences de l'Evolution (ask Nikolas, Anne-Céline, Eder, Nickie, Marios, Katie, Madeline, Deniz)
- Centre de Génétique et Biologie des Populations (ask Susan)
- MIVEGEC (Infectious diseases) (ask Ozden)

## Research tools and topics

- Theoretical population genetics (including molecular evolution and evolutionary theoretical biology)
- Experimental evolution
- Evolution of insecticide resistance
- Host-parasite evolution
- Emergent diseases
- Behavioral Ecology
- Conservation genetics, phylogeography and phylogeny
- Pest population biology
- Invasion biology

## More research tools and topics

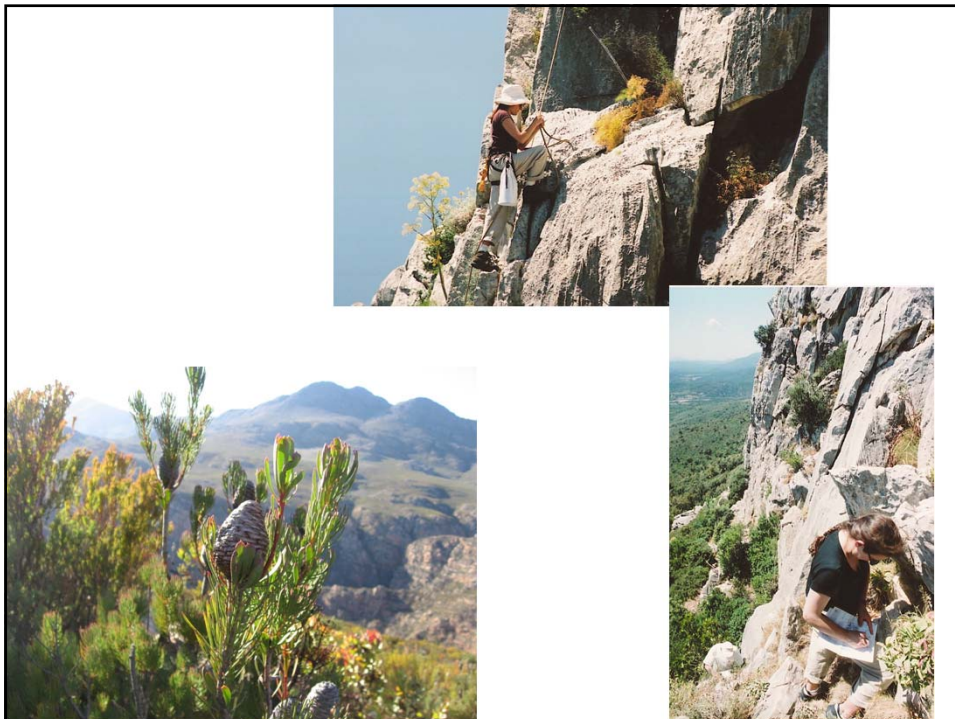
- Chromosomal evolution
- Speciation, evolution of diversification and specialization
- Human Evolution
- Evolution of sexual dimorphism
- Evolutionary quantitative genetics
- Paleontology
- Community ecology
- Community genetics, landscape genetics
- Evo-devo

## Model organisms

- Mammals (Primates ; Rodents ; Ungulates)
- Birds (Great Tits ; artic and antartic birds)
- Fishes
- Turtles, Lizards
- Arthropods (Mites ; Insects ; Crustaceans)
- Nematodes
- Paramecia
- Plants (including tropical ecology)
- Plant pathogens
- Plant mycorrhizas
- Symbiotic bacteria (Wolbachia) [link](#)
- Pathogens (bacteria, microsporidies)
- Viruses

## Field work

- Mediterranean areas (including South Africa)
- Tropical forests (Africa, South America)
- Marine ecosystems (research station in Sète)
- Freshwater ecosystems



### **More information:**

- See [mon.univ-montp2.fr](http://mon.univ-montp2.fr) – look for MEME

<http://mon.univ-montp2.fr/claroline/course/index.php?cid=MEME>