

Doctoral Course (Doctoral Schools ABIES and GAIA)

Environmental Genetics



Doctoral course schedule

1. General introduction on animal adaptation (Conference).

Tatiana Zerjal (INRA/AgroParisTech-GABI) - *Monday 10h30-12 h.*

2. Models of population genetics and measures of the neutral diversity. A reminder (Conference).

Renaud Vitalis (INRA-CBGP, Montpellier) - *Monday 14h-17h.*

3. Selection footprints.

a. General introduction.

Renaud Vitalis (INRA-CBGP, Montpellier) - *Tuesday 9h-10h30.*

b. Selection footprints, Bayesian methods (PCADAPT/SELESTIM - Conference + Tutorial).

Keurcien Luu (TIMC-IMAG, Grenoble)/Renaud Vitalis (INRA-CBGP, Montpellier) -
Tuesday 11h-12h30 / 14h-15h30.

c. the HapFLK method (HapFLK- Conference + Tutorial).

Simon Boitard (INRA-GenPhyse, Toulouse)- *Tuesday 16h00-17h30 / Wednesday 9h-10h30.*

4. Links with environmental covariables.

a. Factorial methods (PCAIV, Redundancy analysis – Conference + Tutorial).

Denis Laloë (INRA/AgroParisTech-GABI) - *Wednesday 11h-12h30 / 14h-15h30.*

b. BayPass (Conference + Tutorial).

Mathieu Gautier (INRA-CBGP, Montpellier) - *Thursday 9h00-12h00.*

c. Factor analysis (LFMM/LEA- Conference + Tutorial).

Olivier François (TIMC-IMAG, Grenoble) - *Thursday 14h00-17h00.*

5. Functional analysis.

Characterization of selection regions; functional analysis of candidate genes; Functions identifying and viewing (Conference).

Laurence Flori (INRA/CIRAD, Montpellier) - *Friday 9h00-10h30.*

6. Conclusion.

Friday 11h00-12h30.