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 10h30-12h.

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, Redudancy 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.