



Population genetics





Présentation

Description

The objective of this course is to provide the theoretical background for understanding, and potentially being able to use and apply the principles of how selection will affect the evolution of populations. Y. Michalakis describes the basics of selection theory and shows with elementary algebra that it is possible to derive some fundamental results in Population Genetics, such as Fisher's Fundamental Theorem. He also gives an introduction to mutation-_selection balance and two--locus theory. The latter topics are put in perspective in the courses by T. Lenormand on the evolution of sexual reproduction, migration and local adaptation. T. Lenormand also presents the theory that allows understanding the dynamics of adaptation. G. Martin's courses explain how stochastic effects interact with selection to influence the fate of adaptive mutations.

Objectifs

Intermediate skills in population genetics.

Contrôle des connaissances

Contrôle terminal

Informations complémentaires

Volumes horaires:

CM: 12 h

TD: 12 h

TP:0h

Terrain: 0 h

SPS: 0 h

Séminaires : 0 h

Hors UM: 0 h

