



Faculty of Sciences

BIO1314 Systematics and evolution : Principles, methods and diversity

[20h+20h exercises] 3 credits

This course is taught in the 2nd semester

Teacher(s): Thierry Hance, Renate Wesselingh
Language: French
Level: First cycle

Aims

To make the ideas and methods on which the classification of all living beings is based accessible to students. To clarify the notion of species and its limits, its identification and nomenclature. To allow students to situate organisms in the classification. To study the diversity of plants and especially angiosperms.

Main themes

The course covers the following points : 1 classifications : goals, necessity and applications; Main schools of actual debate; 2 the species : concept and limits (race to species complex) ; ideas of nomenclature and description ; speciation and evolution ; 3 phylogenesis : reconstruction, data analysis, use of molecular biology; 4 plant diversity : history, Pteridophytes and Gymnosperms, actual classification system of Angiosperms and diversity of existing families.