



SC

BIOL2201 Evolution biologique

[30h] 2 credits

This course is taught in the 1st semester

Teacher(s): Anne-Marie Corbisier, Thierry Hance
Language: french
Level: 2nd cycle course

Aims

To give a main view of the steps that lead to the appearance of life of earth and its evolution to the human specie ; to present and discuss the different hypothesis proposed to explain these steps, to develop the critical sense of students.

Main themes

- Historical view : ancient theories and recent interpretations.
- Evolution of organic molecules from the mineral material and the appearance of characteristics of life.
- Evolution of procaryotes, relations between them and eucaryotes.
- Molecular evolution and use of molecules to establish the evolutionnary relations.
- Evolution of vegetals and animals : differences and similarities ; installation of life on firm ground ; influence of biotic factors and coevolution.
- Mecanisms responsable for speciation and evolution : polymorphism, natural selection, isolation.
- Origin of man and cultural evolution.

The molecular, genetic, cytological and morphological aspects looked upon in most chapters. The origin of life, of eucaryotes, the evolution of plants and animals necessary to know the ancestors of modern man. Also we look upon ecology and biogeography in the chapters concerning evolution and coevolution of organisms.

Other credits in programs

BIOL22/A	Deuxième licence en sciences biologiques (Biologie moléculaire, cellulaire et humaine)	(2 credits)	Mandatory
BIOL22/B	Deuxième licence en sciences biologiques (Biologie des organismes et des populations)	(2 credits)	Mandatory