Universitat Autònoma de Barcelona

2017/2018

History of Genetics

Code: 101962
ECTS Credits: 3

Degree	Type	Year	Semester
2500890 Genetics	OT	4	0

Contact

Name: Carlos Tabernero Holgado
Email: Carlos.Tabernero@uab.cat

Use of languages

Principal working language: spanish (spa)
Some groups entirely in English: No
Some groups entirely in Catalan: No
Some groups entirely in Spanish: No

Prerequisites

None.

Objectives and Contextualisation

Objectives and contextualization

History of Genetics is taken in the 4th year of the Degree of Genetics and is part of the group of optional subjects.

The main objectives are:

Introduce the student to the consideration and experimentation of history as a vehicle for reflection and cultural construction, as an instrument of research, documentation and popularization, and as a pedagogical tool in the field of science.

Within the specific scope of the history of genetics, give the student the necessary tools to identify and critically analyze the main historiographical currents related to genetics.

Introduce the student to the knowledge of the processes of generation, circulation, communication and management of scientific (genetic) knowledge, as well as his impact on socio-cultural transformations throughout history.

Introduce the student to the analysis of the role and the situation of genetics and their social relations today and throughout history.

Consider the social, cultural, strategic and economic importance of genetics and genomics in the life sciences, health and society.

And thus, give the student the necessary tools to synthesize, from the historical consideration of genetics, a perspective of the current and future reach of this science.

Content

Blocks

A. Introduction to the history of genetics and the field of the history of science.
B. Inheritance throughout history. Concepts and sociocultural relations (up to the 18th century).
C. The two cultures and the pillars of contemporary biology (19th century).
D. From Mendel to the Synthetic Theory of Evolution. Genetics and the historical view of life.
E. The development of molecular biology: individuals, society and information.
F. Genetics, genomics, sociobiology: debates and challenges.