GENETICS

Responsible professor: LAUREANA REBORDINOS GONZÁLEZ
Credits: 5,0 ECTS

Brief description of the contents:

- Importance and interest of the management and conservation of genetic resources
- Introduction to population genetics
- Application of biotechnology to aquaculture
- Species identification: techniques and practical methods
- Computer programmes for population studies: characterisation and conservation
- Genetic improvement: methods, improvement programmes, etc.
- Regulation of gene expression

Detailed programme:

LEARNING BLOCK	TOPIC OR ACTIVITY
B1	Conservation of genetic resources: importance of biodiversity.
B2	Methods in conservation genetics.
B3	Preservation and analysis of genetic diversity: genetic markers.
B4	Population genetics.
B5	Conservation of genetic resources: genetics and management of wild populations.
B6	Computer programmes for the study of population genetics.
B7	Case study: population genetics.
B8	Case study: species identification.
B9	Genetic improvement in aquaculture.
B10	Conservation of genetic resources: genetic management of captive populations.
B11	Management of breeding stock.
B12	Monitoring of conservation programmes.
B13	Epigenetics and sexing control in fish.
B14	Introduction to genetic engineering: case study.
B15	Gene locating and mapping.
B16	Project presentations.
B17	Development of integrated genetic maps.
B18	Project presentations.

Evaluation system:

SYSTEM	WEIGHT
Class attendance and participation	5 – 20
Presentations	15 – 20
Content test	20 – 60