

## **Master in Biology. Physiology, Epigenetics and Development**

The specialty of Master 2 PhED of Grenoble is a multidisciplinary program that guarantees its graduates a high scientific level providing access to most doctoral schools in the area of biological sciences in the world.

Academic training allows candidates to choose specialized courses, taught by actors of basic research in various fields such as animal physiology and pathophysiology, plant physiology, genetics and epigenetics, cancer, cell differentiation or development. The lessons of the program are taught in an interactive manner to a limited number of students. Theoretical knowledge is reinforced by a six-month fellowship in one of the many laboratories of Grenoble scientific environment or in any other internationally recognized laboratory.

The program includes the following list of courses:

### **Mandatory courses:**

BIO531A (6 ECTS): Genetic Engineering

BIO531B (6 ECTS): Epigenetics and cell differentiation

BIO531C (6 ECTS): Principles of cell signaling

### **Elective courses: Choose 2 courses in the following list**

BIO531G (6 ECTS): Cardiovascular physiology and integrated metabolism

BIO531D (6 ECTS): Molecular bases of neurodegeneration and regeneration in the adult CNS

BIO531E (6 ECTS): Integrative neurphysiology

BIO531H (6 ECTS): Molecular genetics and epigenetics of cancer

BIO531I (6 ECTS): Development and evolution of animals and plants

BIO531F (6 ECTS): Ageing and Longevity

BIO531Q (6 ECTS): Plant physiology and Development : genetics and applications