

Master in Biology

Neurosciences, neurobiology 2nd year

Presentation

The students will also become familiar with the various techniques used in this developing field in biology. At the end of this 2 year master program, the students should be able to undertake a PhD program in the fields of neurobiology or neurosciences. The first year of the Neurobiology - neurosciences (NN) master program (Molecular and cellular biology program) is meant to complete the general scientific background of the enrolled students in various fields of biology (cell biology, genetics and biochemistry) (semester 7), introduce the students to their specific master 2nd year's program by offering them specialized courses (semester 8), introduce the students to a research project, from its conception to its experimental undertaking and up to the report of the obtained results by an oral presentation as well as a written report (module of 18 ECTS during the semester 7 ; internship of 2 months in a research laboratory or in a R&D laboratory from a private company), allow the students to develop their written and oral skills for the search of internships and/or jobs as well as for the presentation of research projects and experimental results (mandatory modules of 3 ECTS - Communication tools - and 18 ECTS during the semester 7, 2 months internship during the semester 10).

The objectives of the Neurosciences, neurobiology master program are to provide the students with a strong scientific background in the various aspects of neurosciences, from the most integrated ones to the cellular aspects.

Registration and scholarships

Second year of the master's degree in Biology : To be eligible to apply, you should have completed (or you should be enrolled in) a first year of a master's degree in Sciences *i.e.* you should have validated 60 ECTS of a master's degree in Sciences by the end of your current academic year.

Public continuing education : You are in charge of continuing education :

- if you resume your studies after 2 years of interruption of studies
- or if you followed training under the continuous training regime one of the previous 2 years
- or if you are an employee, job seeker, self-employed

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#)

- 2 sessions to apply:
- From 1 to 21 March included
- From 25 April to 13 May included

An interview will be proposed to the applicants to the first or second year of the master's degree in order to test their motivation. Do you want to apply and sign up for a course ? Please be aware that the procedure differs depending on the diploma you want to take, the diploma you have already obtained and, for foreign students, your place of residence.

Let us be your guide – simply follow this [link](#)

Further studies

Graduating from a master degree in Neurobiology – neurosciences leads to a career as a research engineer in academic or private laboratories. For the students interested in a career as a research scientist in academic institutions or in private pharmaceutical industries: consecutively to a master degree in Neurobiology – neurosciences, the students may choose to continue with a PhD program depending from a french Doctoral school or foreign universities and related to the aforementioned fields of biology. Consecutively to their PhD, the young researchers undertake one or two post-doctoral trainings of 2-3 years each, usually in foreign countries, in order to diversify their expertise. They can then apply to permanent positions as

- Full time researchers at the national French organizations of research (“CNRS”, “INSERM”, “INRA”, “IRD” etc)
- Project managers in R&D laboratories from private biotech companies
- Part time researchers, part time teachers in French or foreign universities

Practicals informations :

- > Component : UFR Chimie-Biologie
- > level : Baccalaureate +5
- > Duration : 1 year
- > Course type : Initial and Continuing Education
- > Location(s) : Grenoble - University campus

Contacts

Program director

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Program

Master 2nd year

Semester 9

UE Research project	6 ECTS
UE Neurophysiology	6 ECTS
UE Neurodegeneration and repair	6 ECTS
UE Synaptic Plasticity of the adult nervous system	6 ECTS
1 option(s) to choose from 7	
UE Cancer disease : experimental and therapeutical approaches	6 ECTS
UE High throughput Biology	6 ECTS
UE Biostatistics, bioinformatics, modeling (part II)	6 ECTS
UE Epigenetics and cell differentiation	6 ECTS
UE Cardiovascular physiology and integrated metabolism	6 ECTS

UE Ageing and longevity	6 ECTS
UE Evolution and development of Eukaryotes	6 ECTS

Semester 10

UE Business plan of your start-up (entrepreneurship and science)	3 ECTS
UE Laboratory internship NN (part II)	24 ECTS
1 option(s) to choose from 2	
UE Communication in scientific english (part II)	3 ECTS
UE Transverse teaching of choice	3 ECTS