

Parcours Neurosciences, neurobiology 2e année

Présentation

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. The students will also become familiar with the various techniques used in this developing field in biology.

At the end of this 2nd year's 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 first semester of the 1st year's master ; 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 second semester).

Admission

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 ETCS 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 \(VAPP\)](#).

Vous souhaitez candidater et vous inscrire ?

Sachez que la procédure diffère selon le diplôme envisagé, le diplôme obtenu, ou le lieu de résidence pour les étudiants étrangers. Laissez-vous guider simplement en suivant ce [lien](#)

2 campagnes de candidature sont organisées pour la 2e année de master mention Biologie

- Campagne 1 : Ouverture de campagne sur e-candidat du 1 au 19 mars inclus
- Campagne 2 : Ouverture de campagne sur e-candidat du 26 avril au 14 mai inclus

Poursuite d'études

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

Infos pratiques :

- > Composante : UFR Chimie-Biologie
- > Niveau : Bac +5
- > Durée : 1 an
- > Type de formation : Formation initiale / continue
- > Lieu : Grenoble - Domaine universitaire

Contacts

Responsable pédagogique

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Contact administratif

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Programme

Program under construction - awaiting CFVU vote

UE Evolution and development of Eukaryotes	6 ECTS
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Master 2e année

Semestre 9

UE Research project	6 ECTS
UE Neurophysiology	6 ECTS
UE Neurodegeneration and repair	6 ECTS
UE Plasticity of the adult nervous system	6 ECTS

1 option(s) au choix parmi 7

UE Cancer disease : experimental and therapeutical approaches	6 ECTS
UE High throughput in 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

Semestre 10

UE Communication in scientific english (part II)	3 ECTS
UE Business plan of your start-up (entrepreneurship and science)	3 ECTS
UE Laboratory internship NN (part II)	24 ECTS