

SCIENCES, TECHNOLOGIES AND HEALTH

Neurosciences, neurobiology 2nd year

Master in Biology



Target level
Baccalaureate
+5



ECTS
60 credits



Duration
1 year



Component
UFR Chimie-
Biologie



Language(s) of instruction
English

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.

International education : Internationally-oriented programmes

Admission

Access conditions

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)

Candidature / Application

Master 2 Neurosciences, neurobiology

- 1st opening period for recruitment on e-candidat : **from 4th of march to 27th of march 2024 included**
- 2nd opening period for recruitment on e-candidat : **from 29th of april to 15th of may 2024 included**

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

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.

Candidates from a foreign University, please see the admission requirements on the following [🔗](#) website

Fees

UGA registration fees : 243 € + 100 € CVEC

And after

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

Sector(s)

At the end of the second year of the master's in Neurosciences, neurobiology, graduates can pursue careers as design engineers in private or academic research.

Useful info

Contacts

Program director

Mireille Albrieux

✉ Mireille.Albrieux@univ-grenoble-alpes.fr

Administrative contact

Scolarité Master Biologie

✉ ufrchimiebiologie-master-biologie@univ-grenoble-alpes.fr

Continuing education manager

Muriel Lascar

☎ 04 76 01 26 28

✉ fc-chimiebio@univ-grenoble-alpes.fr

Course location(s) - City

📍 Grenoble

Campus

🏠 Grenoble - University campus

Program

Master 2nd year

Semester 9

	Nature	CM	TD	TP	Crédits
UE Research project	Teaching Unit (UE)	6h	30h		6 credits
UE Neurophysiology	Teaching Unit (UE)	24h	13,5h		6 credits
UE Neurodegeneration and repair	Teaching Unit (UE)	18h	22h		6 credits
UE Synaptic Plasticity of the adult nervous system	Teaching Unit (UE)	27h	9h		6 credits
UE Cancer disease : experimental and therapeutical approaches	Teaching Unit (UE)	30h	10h		6 credits
UE High throughput Biology	Teaching Unit (UE)	30h	10h		6 credits
UE Biostatistics, bioinformatics, modeling (part II)	Teaching Unit (UE)	27h	12h		6 credits
UE Epigenetics and cell differentiation	Teaching Unit (UE)	20h	20h		6 credits
UE Cardiovascular physiology and integrated metabolism	Teaching Unit (UE)	15h	25h		6 credits
UE Ageing and longevity	Teaching Unit (UE)	25h	7h		6 credits
UE Evo Devo and the green lineage	Teaching Unit (UE)	22,5h	18h		6 credits

Semester 10

	Nature	CM	TD	TP	Crédits
UE Business plan of your start-up (entrepreneurship and science)	Teaching Unit (UE)	14h	10h		3 credits
UE Laboratory internship NN (part II)	Teaching Unit (UE)				24 credits

UE Communication in scientific english (part II)	Teaching Unit (UE)	3 credits
UE Transverse teaching of choice	Teaching Unit (UE)	3 credits