

Master in Plant's biology

Planta international

Presentation

PLANT-Int is proposed by University Grenoble Alpes (UGA) and Università degli Studi di Milano ([UNIMI](#)) and leads to a double master's degree diploma delivered by both universities. Teaching is provided in english, by [commuting between Grenoble and Milan](#), with a large panel of options and [internships](#) that allow a customized study plan for every student.

The PLANT-Int major of the master's in biology focuses on Plant science. PLANT-Int trains future scientists for academic or private careers in plant biology and plant biotechnology.

Registration and scholarships

Access conditions

- First year of the master's degree in Biology (Molecular and cellular biology program) : if you have completed a bachelor's degree in Sciences or are enrolled in the final semester of a bachelor's program in Sciences in France, you are eligible to apply for the first year of the master's degree in biology
- 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 \(VAPP\)](#).

[skin.odf-uga:SKIN_ODF_CONTENT_PROGRAM_CANDIDATURE_LABEL](#)

Recruitment campaign : From 26th of february to 24 of march 2024 with [monmaster.gouv.fr/](#)

You want to apply and sign up for a course master ? 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](#)

Expenses

UGA registration fees: 243€ + 100€ CVEC

Practicals informations :

- > Component : UFR Chimie-Biologie
- > level : Baccaureate +5
- > Duration : 2 years
- > Course type : Initial and Continuing Education

> Location(s) : Grenoble - University campus

Contacts

Program director

Carles Christel
 Christel.Carles@univ-grenoble-alpes.fr

Program

Master 1re année

Semestre 7 (à l'UGA)

UE Introduction to Plant development and Signaling	6 ECTS
UE Evolutionary biology of plants	6 ECTS
UE Strategies in experimental biology	12 ECTS
UE Advanced scientific english/FLE/italian	3 ECTS
1 option(s) to choose from 1	
UE Communication tools	3 ECTS
UE Business plan of your start-up (entrepreneurship and science)	3 ECTS
UE Knowledge of Company	3 ECTS

Semestre 8 (à l'UNIMI)

UE Plant development part II	6 ECTS
UE Plant signal transduction part II	6 ECTS
UE Laboratory stage	6 ECTS
2 option(s) to choose from 2	
UE Plant Ecology	6 ECTS
UE Advanced plant cell biotechnology	6 ECTS
UE Plant metabolic engineering and nutrigenomics	6 ECTS
UE Development of crop ideotypes	6 ECTS
UE Molecular plant breeding and genetics	6 ECTS

Master 2e année

Semestre 9

3 option(s) to choose from 3	
UE Evo Devo and the green lineage	6 ECTS

UE Epigenetics and cell differentiation	6 ECTS
UE Chemistry and cellular biochemistry	6 ECTS
UE Molecular Genetics and Epigenetics controls	6 ECTS
UE Functional genomics (UNIMI)	6 ECTS
UE Molecular bioinformatics (UNIMI)	6 ECTS
UE Biostatistics, bioinformatics, modeling (part II)	6 ECTS
UE High throughput Biology	6 ECTS
UE Patenting and technology transfer (UNIMI)	6 ECTS
UE Environmental plant biochemistry and Physiology (UNIMI)	6 ECTS
UE Basic statistics and Experimental Design	6 ECTS
UE Molecular and Cellular Imaging (UNIMI)	6 ECTS
UE Laboratory Methods for Biodiversity (UNIMI)	6 ECTS
UE Internship I	12 ECTS

Semestre 10

UE Internship II	24 ECTS
1 option(s) to choose from 1	
UE Evo Devo and the green lineage	6 ECTS
UE Epigenetics and cell differentiation	6 ECTS
UE Chemistry and cellular biochemistry	6 ECTS
UE Molecular Genetics and Epigenetics controls	6 ECTS
UE Functional genomics (UNIMI)	6 ECTS
UE Molecular bioinformatics (UNIMI)	6 ECTS

UE Biostatistics, bioinformatics, modeling (part II)	6 ECTS
UE High throughput Biology	6 ECTS
UE Environmental plant biochemistry and Physiology (UNIMI)	6 ECTS
UE Patenting and technology transfer (UNIMI)	6 ECTS
UE Basic statistics and Experimental Design	6 ECTS
UE Molecular and Cellular Imaging (UNIMI)	6 ECTS
UE Laboratory Methods for Biodiversity (UNIMI)	6 ECTS
UE Molecular plant breeding and genetics	6 ECTS