

🕒 Notre offre de formation évolue ! Les programmes pour l'année 2027-2028 sont en cours de mise à jour et peuvent évoluer jusqu'au 28 novembre 2026. Les programmes de l'année universitaire 2026-2027 restent consultables en cas de besoin.

SCIENCES, TECHNOLOGIES, SANTÉ, INGÉNIERIE

# Master Biologie végétale

Biologie végétale



Niveau d'étude  
visé  
Bac +5



ECTS  
120 crédits



Durée  
2 ans



Composante  
UFR de Chimie  
et de biologie



Langue(s)  
d'enseignement  
Anglais



Référentiel  
RNCP  
39692

## Parcours proposés

> Parcours Planta international

## Présentation

The Master in Plant Biology is a double degree from the Université Grenoble Alpes (UGA) and the University of Milan (UniMi). In the 1st year, all students recruited by UGA or UniMi first spend one semester at UGA and then one semester at UniMi. The training aims to train experts in plant biology and biotechnologies, for basic or applied research and / or industry. For the courses delivered at the UGA, it relies on local research strengths, both for its teaching team which includes many researchers, as well as for its teaching methods and "workshops" in support research institutes. of the two universities and plant-specific units. With a modular and perfectly balanced teaching offer between UGA and UniMi, the course provides a unique opportunity for students to experience two academic, scientific and professional cultures.

The objectives of the PLANT-Int training are as follows:

- Deepening of all aspects of physiology, genetic development of plants and more generally of photosynthetic organisms
- Research training through research Increase in professionalization / skills: evolution and diversification of practices over the course of the training, in particular through the three internships that can be carried out in public or private research laboratories and in companies.

**Formation internationale** : Formation tournée vers l'international

## Dimension internationale

A partnership agreement and an Erasmus + agreement have been signed for this course with the University of Milan, which for its part, created a Plant Science master's degree.

## Organisation

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## Admission

UGA registration fees : 254€ + 105€ CVEC

### Conditions d'admission



• 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).

### Candidature

**Recruitment campaign : From 17th of february to 16 of march 2026** with  [monmaster.gouv.fr/](https://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

### Droits de scolarité

## Et après

### Les + de la formation

- Internationally open training: course entirely in English; outgoing and incoming student mobility of all students
- Implementation of innovative pedagogies, including learning through projects and collaborative work, pedagogical tutorials and reverse pedagogy

## Infos pratiques

### Contacts

#### Responsable pédagogique

Christel Carles

✉ [Christel.Carles@univ-grenoble-alpes.fr](mailto:Christel.Carles@univ-grenoble-alpes.fr)

#### Responsable pédagogique

Gabrielle Tichtinsky

✉ [Gabrielle.Tichtinsky@univ-grenoble-alpes.fr](mailto:Gabrielle.Tichtinsky@univ-grenoble-alpes.fr)

#### Responsable pédagogique

Florence Courtois

✉ [Florence.courtois@univ-grenoble-alpes.fr](mailto:Florence.courtois@univ-grenoble-alpes.fr)

#### Gestionnaire de scolarité

Scolarité Master Planta International

✉ [ufrchimiebiologie-master-plantint@univ-grenoble-alpes.fr](mailto:ufrchimiebiologie-master-plantint@univ-grenoble-alpes.fr)

### Lieu(x) ville

📍 Grenoble

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## Campus

🏠 Grenoble - Domaine universitaire

**UGA**  
Référentiel RNCP  
Université  
Grenoble Alpes  
39692.

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## Programme

### Parcours Planta international



Master 2e année

#### Semestre 7 (à l'UGA)

|                                                    | Nature | CM    | TD    | TP  | Crédits    |
|----------------------------------------------------|--------|-------|-------|-----|------------|
| UE Introduction to Plant development and Signaling | UE     | 25,5h | 24,5h |     | 6 crédits  |
| UE Evolutionary biology of plants                  | UE     | 28,5h | 16,5h |     | 6 crédits  |
| UE Strategies in experimental biology              | UE     |       | 15h   | 70h | 12 crédits |
| UE Advanced scientific english / FLE / Italian     | UE     |       | 24h   |     | 3 crédits  |
| UE Communication tools                             | UE     | 10h   | 14h   |     | 3 crédits  |
| UE Business Plan of Your start-up                  | UE     | 14h   | 10h   |     | 3 crédits  |

#### Semestre 8 (à l'UNIMI)

|                                                  | Nature | CM | TD | TP | Crédits   |
|--------------------------------------------------|--------|----|----|----|-----------|
| UE Plant development part II                     | UE     |    |    |    | 6 crédits |
| UE Plant signal transduction part II             | UE     |    |    |    | 6 crédits |
| UE Laboratory stage                              | UE     |    |    |    | 6 crédits |
| UE Plant ecology                                 | UE     |    |    |    | 6 crédits |
| UE Advanced plant cell biotechnology             | UE     |    |    |    | 6 crédits |
| UE Plant metabolic engineering and nutrigenomics | UE     |    |    |    | 6 crédits |
| UE Development of crop ideotypes                 | UE     |    |    |    | 6 crédits |
| UE Molecular plant breeding and genetics         | UE     |    |    |    | 6 crédits |

### Master 2e année

#### Semestre 9

|                                          | Nature | CM    | TD  | TP | Crédits   |
|------------------------------------------|--------|-------|-----|----|-----------|
| UE Evolution & Development of Eukaryotes | UE     | 22,5h | 18h |    | 6 crédits |
| UE Epigenetics and cell differentiation  | UE     | 20h   | 20h |    | 6 crédits |

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|                                                                        |    |       |       |    |            |
|------------------------------------------------------------------------|----|-------|-------|----|------------|
| UE Chemistry and Cellular Biochemistry                                 | UE | 30h   | 20h   |    | 6 crédits  |
| UE From cells to viruses : molecular genetics and epigenetics controls | UE | 31,5h | 13,5h | 4h | 6 crédits  |
| UE Functional genomics (UNIMI)                                         | UE |       |       |    | 6 crédits  |
| UE Molecular bioinformatics (UNIMI)                                    | UE |       |       |    | 6 crédits  |
| UE Biostatistics, Bioinformatics, Modeling , Part II                   | UE | 27h   | 12h   |    | 6 crédits  |
| UE High throughput Biology                                             | UE | 36h   |       |    | 6 crédits  |
| UE Patenting and technology transfer (UNIMI)                           | UE |       |       |    | 6 crédits  |
| UE Environmental plant biochemistry and Physiology (UNIMI)             | UE |       |       |    | 6 crédits  |
| UE Basic statistics and Experimental Design                            | UE |       |       |    | 6 crédits  |
| UE Molecular and Cellular Imaging (UNIMI)                              | UE |       |       |    | 6 crédits  |
| UE Laboratory Methods for Biodiversity (UNIMI)                         | UE |       |       |    | 6 crédits  |
| UE Internship I                                                        | UE |       |       |    | 12 crédits |

## Semestre 10

|                                                                        | Nature | CM    | TD    | TP | Crédits    |
|------------------------------------------------------------------------|--------|-------|-------|----|------------|
| UE Internship II                                                       | UE     |       |       |    | 24 crédits |
| UE Evolution & Development of Eukaryotes                               | UE     | 22,5h | 18h   |    | 6 crédits  |
| UE Epigenetics and cell differentiation                                | UE     | 20h   | 20h   |    | 6 crédits  |
| UE Chemistry and Cellular Biochemistry                                 | UE     | 30h   | 20h   |    | 6 crédits  |
| UE From cells to viruses : molecular genetics and epigenetics controls | UE     | 31,5h | 13,5h | 4h | 6 crédits  |
| UE Functional genomics (UNIMI)                                         | UE     |       |       |    | 6 crédits  |
| UE Molecular bioinformatics (UNIMI)                                    | UE     |       |       |    | 6 crédits  |
| UE Biostatistics, Bioinformatics, Modeling , Part II                   | UE     | 27h   | 12h   |    | 6 crédits  |
| UE High throughput Biology                                             | UE     | 36h   |       |    | 6 crédits  |
| UE Environmental plant biochemistry and Physiology (UNIMI)             | UE     |       |       |    | 6 crédits  |
| UE Patenting and technology transfer (UNIMI)                           | UE     |       |       |    | 6 crédits  |
| UE Basic statistics and Experimental Design                            | UE     |       |       |    | 6 crédits  |
| UE Molecular and Cellular Imaging (UNIMI)                              | UE     |       |       |    | 6 crédits  |
| UE Laboratory Methods for Biodiversity (UNIMI)                         | UE     |       |       |    | 6 crédits  |
| UE Molecular plant breeding and Genetics                               | UE     |       |       |    | 6 crédits  |