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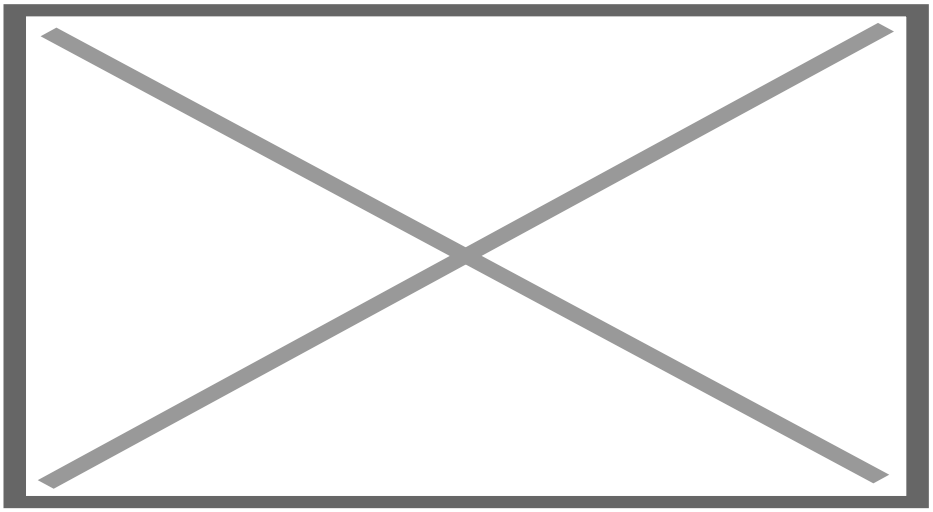
M1 Biologie Agrosciences Sciences du végétal-Plant Sciences

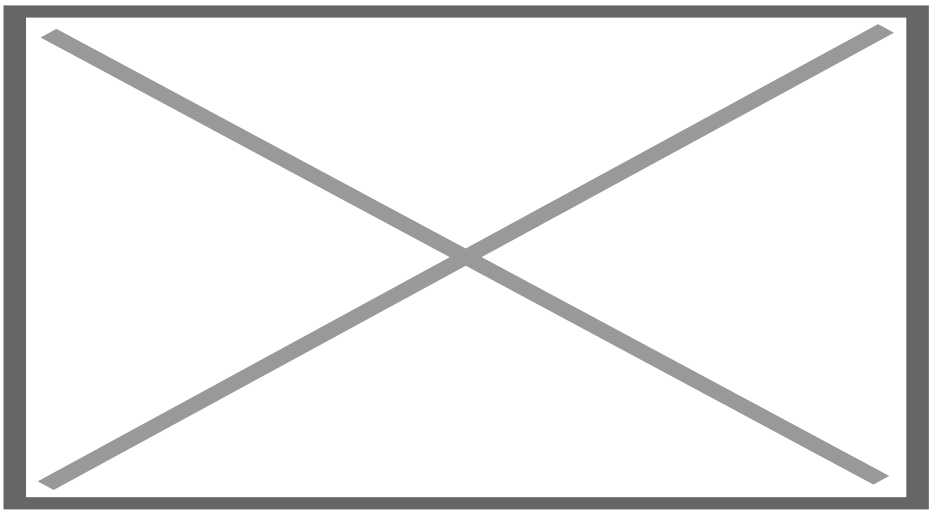
Master's degree
Specialisation Biologie-AgroSciences
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English
French

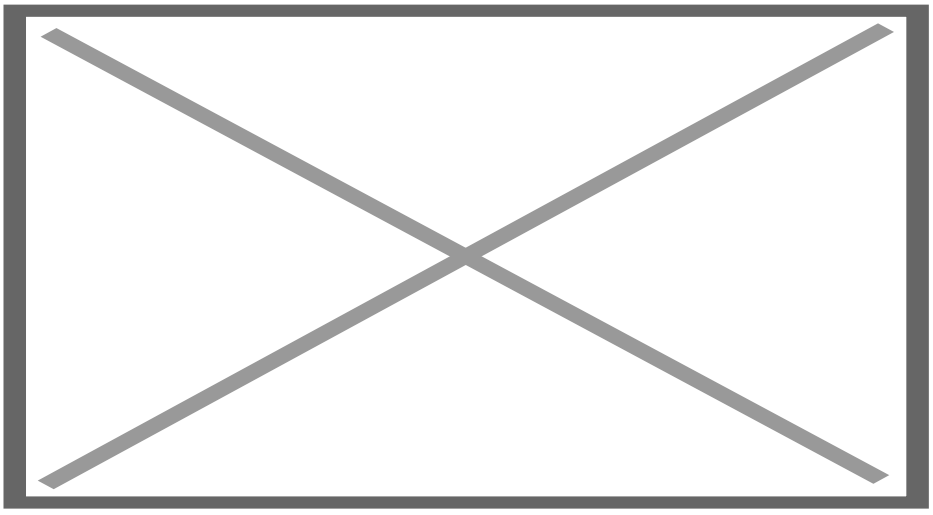
- **Be among the pioneers** shaping sustainable and resilient plant systems.
- **Join an elite, international program** fully **taught** in **English** from the first to the second year.
- **Access an outstanding research environment** through the Saclay Plant Sciences Excellence Network — over **800 leading plant scientists** in one of Europe’s largest plant research hubs

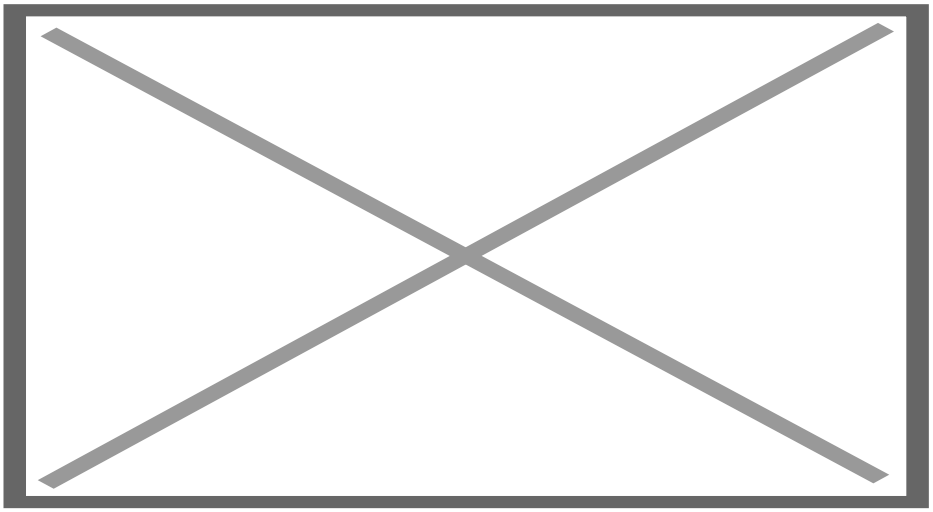
The programme is divided into two semesters and comprises four non-compensable blocks: the core curriculum block BCC1- Integrative foundations and methods for animal and plant sciences (17 ECTS); the two Plant Sciences blocks BCC2 and BCC3- Plant sciences : Specialised knowledge and innovative methods for sustainability (16 and 19 ECTS) with compulsory or optional teaching units (six optional sequences); the block dedicated to the compulsory 8-week teaching unit internship BCC4- Implementing a plant science research and innovation project in a professional context (8 ECTS). The Plant Sciences programme offers the option of a full M1 programme in English.

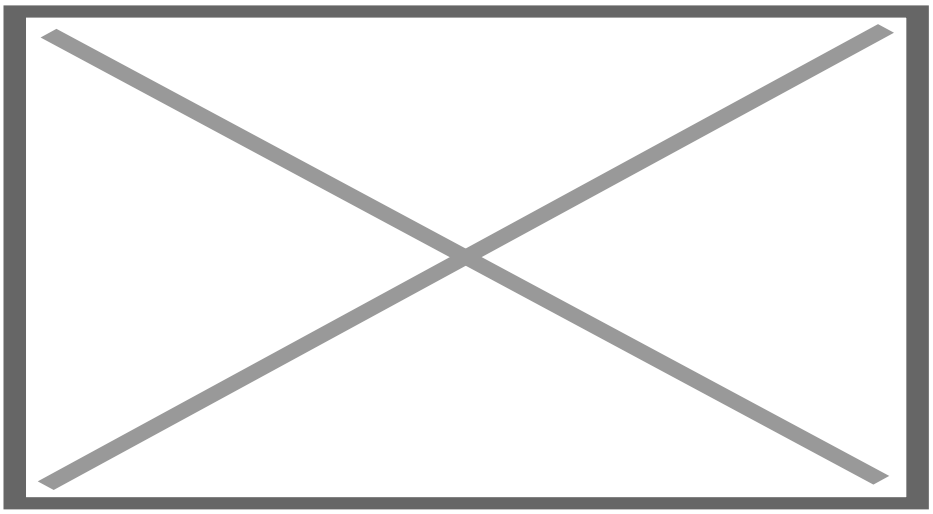
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Understand the major societal and economic issues relating to the use and improvement of cultivated plants.
- To be able to explain current knowledge of how plants function and develop in interaction with their environment.
- Competent in defining and describing the main concepts, methods and technological tools used in integrative biology, in particular omics approaches.
- Capable in analyzing complex data from these technologies and use the associated statistical and bioinformatic tools
- Implement basic techniques in molecular and cellular biology, biochemistry, genetics and plant physiology

- Synthesize information on a scientific topic in the field of plant sciences; communicate it orally and in writing, in French and English, alone or in a group
- Describe, analyze and critique the results of an experiment; design a scientific approach appropriate to a given problem

Objectives

The M1 Biologie Agrosciences Sciences du végétal/Plant Sciences aims to provide students with in-depth knowledge of how plants function and how they adapt to their environment in order to meet current needs for innovation in plant production. To train the scientists who will meet the new challenges of developing sustainable agriculture, the M1 Biologie Agrosciences Sciences du végétal/Plant Sciences is based on integrated, interdisciplinary and multi-scale training in plant biology. It benefits from the expertise of a network of 'Saclay Plant Sciences' research laboratories, providing training through research that is unique in the Île-de-France region.

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)
After a Master's or Master's + PhD: researcher or lecturer
After a Master's + PhD: researcher or lecturer
Data Scientist
After a Master's degree: Data scientist
After a Master’s degree: Research analyst
R&D Engineer
R&D Project Manager
Design engineer industry / public research
Academic staff
Design Engineer
Data scientist
Research officer
After Master and PhD : reseacher or assistant professor or professor

Further Study Opportunities

Biology-Agrosciences
Master of Biology-Agrosciences
PhD
PhD thesis
Engineering in agriculture and the natural environment
Data Scientist, Data Analyst, Ingénieur·e en Machine Learning dans des secteurs innovants (tech, finance, santé, énergie, etc.) ;
R&D researcher or data modelling and analysis expert in leading-edge companies or laboratories.
PhD bio
PhD

Admission

Admission Route

Life Sciences
Life and Earth Sciences
Health sciences

Capacity

Available Places

16

Target Audience and Entry Requirements

Bachelor's degree (Biology, Life Sciences, Health Sciences, Life and Earth Sciences, equivalent) with knowledge acquired in the fields of: plant physiology and development, genetics (formal/molecular), genomics, cellular and molecular biology, biostatistics. A professional project in line with the objectives of the course is required. A minimum level of English (European B1) is required, enabling students to understand scientific articles and communicate in research.

Période(s) de candidature

Inception Platform

From 15/01/2026 to 16/03/2026

From 19/06/2026 to 25/06/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the Masters' applications and enrolment page.

Supporting documents

Compulsory supporting documents

Copy diplomas.

Copy of identity document.

Motivation letter.

TOEIC.

All transcripts of the years / semesters validated since the high school diploma at the date of application.

Certificate of English level (compulsory for non-English speakers).

English language level certificate B1 (IELTS : score 4/5 ; TOEIC : score 550/760 ; TOEFL IBT : score 42/71). In the absence of official proof, level B1 certificate issued by the English teacher or transcript specifying level B1.

Curriculum Vitae.

Detailed description and hourly volume of courses taken since the beginning of the university program.

Additional supporting documents

Referring contact information (compulsory for non-international applicants).

VAP file (obligatory for all persons requesting a valuation of the assets to enter the diploma).

Supporting documents :
- Residence permit stating the country of residence of the first country
- Or receipt of request stating the country of first asylum

- Or document from the UNHCR granting refugee status
- Or receipt of refugee status request delivered in France
- Or residence permit stating the refugee status delivered in France
- Or document stating subsidiary protection in France or abroad
- Or document stating temporary protection in France or abroad.

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c
Biodiversity and Genome Evolution	3	Semester 1	9.5	15					
Charger le détail									
English courses / Soliya project	2.5	Semester 1		21					
Charger le détail									
Epistemology	2	Semester 1	15						
Charger le détail									
Project Adopt a gene (Elective courses A - option 1)	3	Semester 1	0	0	15				
Charger le détail									
Metabolism and Physiology	2.5	Semester 1	9	6					
Charger le détail									
Biosphera lecture series	1	Semester 1	6						
Charger le détail									
Statistics	3	Semester 1	10		11				
Charger le détail									
Project Adopt a dataset (Elective courses A - option 2)	3	Semestre 1	3		12				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	di le c

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Proteins and biotechnologies (Elective courses D - option 2)	4	Semester 1	14	16				

Charger le détail

Workshop on plant responses to biotic and abiotic stresses (Elective courses C - option 1)	4	Semester 1		6	36			

Charger le détail

Integrative plant physiology (Elective courses D - option 1)	4	Semester 1	20	16				

Charger le détail

Plant-microbe interactions (Elective courses E - option 1)	4	Semester 1	25.5	1.5	9			

Charger le détail

Plant genomics and bioinformatics (Elective courses B - option 1)	4	Semester 1	17	2	12.5			

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Fonctionnement de l'entreprise innovante (FR) (Elective courses C - option 2)	4	Semestre 1	36					
Charger le détail								
System Physiology – plant and animal (FR) (Elective courses E - option 2)	4	Semester 1	18	14				
Charger le détail								
Systems biology I and II (Elective courses B - option 2)	4	Semester 1	18		18			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Plant breeding for agroecology	4	Semester 2	18	6	12				
Charger le détail									
Physiology of nutrition and agronomy (Elective courses G - option 1)	4	Semester 2	8	7	21				
Charger le détail									
Genome engineering and RNA interference (Elective courses F - option 1)	4	Semester 2	8	7	21				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d
Charger le détail									
Seeds: from biology to the supply chain (Elective courses F - option 2)	4	Semester 2	12	14					
Charger le détail									
Plant cell biology and developement	4	Semester 2	20	10	6				
Charger le détail									
Design an experiment	2.5	Semester 2	4	15	6				
Charger le détail									
Metagenomics and microbial molecular ecology (Elective courses G - option 2)	4	Semester 2	18		18				
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour
Internship	8	Semester 2		104					
Charger le détail									

Teaching Location(s)

ORSAY
GIF SUR YVETTE
PARIS 13
PALAISEAU
VERSAILLES

Contact

- **Karine ALIX**

  Responsable du M2 Plant Sciences IQPV
- **Axel DE ZELICOURT**
- **Gianluca TEANO**

Links

Scholarship
http://www.universite-paris-saclay.fr/formation/master/biologie-agrosciences/m1-biologie-agrosciences-sciences-du-vegetal-plant-sciences