

## 2 tracks for the Plant Sciences master

**Master BIP- M1 Plant Sciences**  
(english, french)

**M2**  
**Plant Sciences**

### Research

plant physiology, development, adaptation to the environment, plant-microbe interactions, genomics and breeding epigenetics, cell signalling, cell biology  
(english)

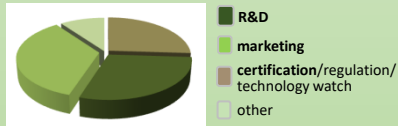
### Professional

"Innovations and quality of crop productions"  
plant protection and health, breeding, sustainable agriculture  
(mainly in french)

**PhD,**  
**Lab or platform engineer**

(academic research, R&D and higher education)

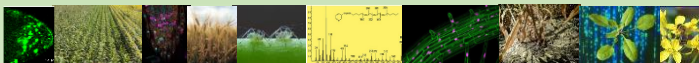
**Manager / Engineer in R&D, Marketing, Product certification, Technology watch...**



\*Pie charts made from survey of former students in the past 5 years

Laboratories of basic and applied research in Plant Sciences (including R&D)

Companies/technical centers/agencies in crop health, plant improvement, sustainable agriculture

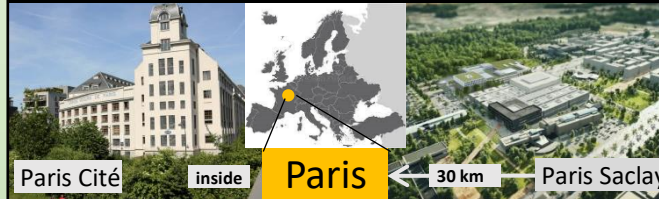


## A great scientific environment



more than 50 research teams in Plant Science  
(at IPS2 and other institutes of the Saclay Plant Sciences network)

## Two modern university campuses



high-quality study facilities for studies (including libraries and open access computer areas), transport, sport, eating, culture...

## Contacts

### Pedagogic supervisors

Dr Sophie Filleur  
*sophie.filleur@i2bc.paris-saclay.fr*  
Dr Christine Lelandais-Brière  
*christine.lelandais@u-paris.fr*

### Scolarity / Administration

Mrs Anicette Anon  
*anicette.anon@u-paris.fr*

## Applications

### EU students:

M1 : MonMaster procedure (national) from February 26th to March 24th 2024

M2: Ecandidate procedure (U. Paris Cité) March 1st to June 6th 4

Non-EU students: CampusFrance website before Febr 29th 2024



Master of Integrative Biology and Physiology (BIP)

# Master in Plant Sciences

<https://master-bip-universite-paris.fr/sv-recherche/>



Welcome to study in Paris !

In partnership with



# A Master degree dedicated to “Plant Sciences” in Paris, the French capital

- Cutting-edge knowledges in Plant Integrative Physiology, sustainable crop breeding and health
- Two specializations in Master 2: “Research in Plant Sciences” or “Professional: Innovations and Quality of crop productions”
- An exceptional scientific environment (5 associated research institutes, a large network of companies and alumni, partnership with Paris Saclay University and SPS graduate school)

## First year of Master (M1)

semester 1	ECTS
Integrative Biology	3
Methods in biological analyses (biostatistics, bioinformatics, molecular biology)	6
English	3
Genome evolution and organization*	3
Biodiversity and Genetics*	3
Plant integrative biology workshop*	4
Plant sciences practical course* OR Fonctionning of a company*	4
Plant integrative physiology* OR Biotechnologies / Plants-insects*	4
semester 2	ECTS
System physiology	3
Research project	3
Applied genetics for plant breeding*	4
Crop genomics and bioinformatics*	4
Plant nutrition and agronomy* OR Genome engineering/RNAi*	4
Seeds : from biology to industry* OR How to build a plant*	4
<b>Internship</b>	<b>8</b>
from mid-april to mid-june, minimum 2 months	

ECTS = European Credit Transfer and Accumulation System

\* Education program (M2) or courses (M1) common with University Paris Saclay



In collaboration with



## Second year of Master (M2-R)\* « Research in Plant Sciences »

semester 1	ECTS
Plant genomics and breeding	5
Cellular biology : from imaging to function	5
Metabolic physiology	5
Signaling mechanisms in plants	5
Pathogenesis and symbiosis	5
Plant epigenetics	5
semester 2	ECTS
<b>Research internship</b>	<b>30</b>
6 months, from january to june	

## Second year of Master (M2- Pro)\* « Innovations and Quality of crop productions »

semester 1	ECTS
Plant genomics and breeding	5
Key business functions	2.5
Strategic marketing and communication	5
Plant protection	5
Accreditation of plant protection products	5
Sustainable agronomy	2.5
Technological and competitive Intelligence	5
semester 2	ECTS
<b>Project in private company</b>	<b>30</b>
6 months, from march to august	

## Some highlights

*Excellent professionnall insertion*  
*Possibilities of fellowships*  
*Individual student tutoring*  
*Numerous internships, practical courses, workshops*

