Université Paris-Saclay

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Add to Compare

M1 International Track in France, Site Orsay

Master's degree

Specialisations Microbiologie | Neurosciences | Biologie moléculaire et cellulaire

Enrolment type

Formation initiale

Formation continue

Language(s) of instruction

English

Designed for international students, this **joint track within our Master's programs in Molecular and Cellular Biology, Neuroscience, and Microbiology** empowers you to build a strong foundation in biology while sharpening transferable skills in a vibrant, international, and multicultural environment.

Along the way, you will **explore various fields**, **personalize your academic path**, and **engage in hands-on research** in cutting-edge scientific fields.

Seize the unique opportunity to pursue a Master 1 program taught entirely in English, leading to a choice of Master 2 in Molecular and Cellular Biology, Neuroscience, or Microbiology. Our flexible program offers a tailored academic path and broad exposure to modern biology in an international setting through four complementary blocks:

Core Courses (17.5 ECTS)

A springboard to acquire essential foundations including language and intercultural competencies, cell and molecular biology, biochemistry, signaling, and genomics along with the key methodological tools needed to explore today’s leading fields in biology.

Electives (30 ECTS)

The heart of your M1, giving focus to your studies and allowing you to dive deeper into your chosen scientific area.

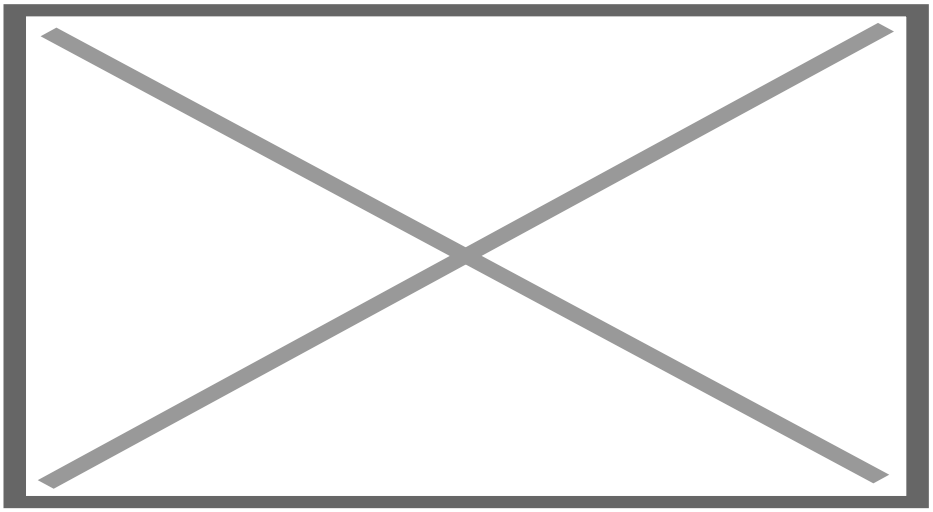
In parallel, expand your horizons! **Explore other disciplines,** broaden your scientific culture, and develop a cross-disciplinary perspective.

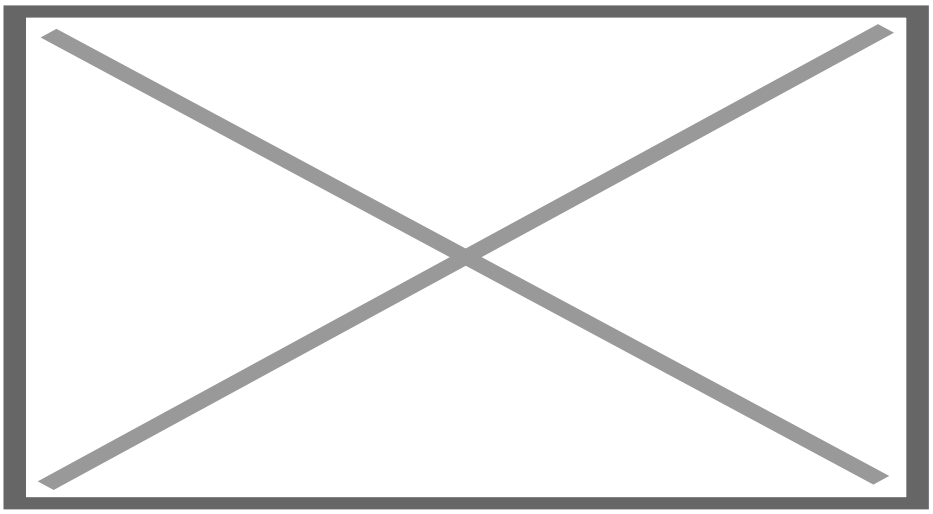
Research Training (12.5 ECTS)

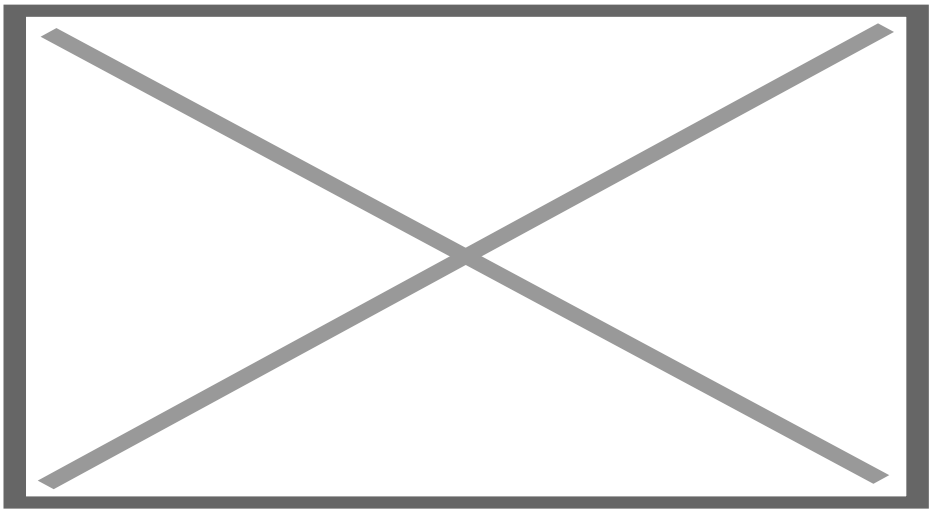
Step into real research with a literature review and a hands-on internship.

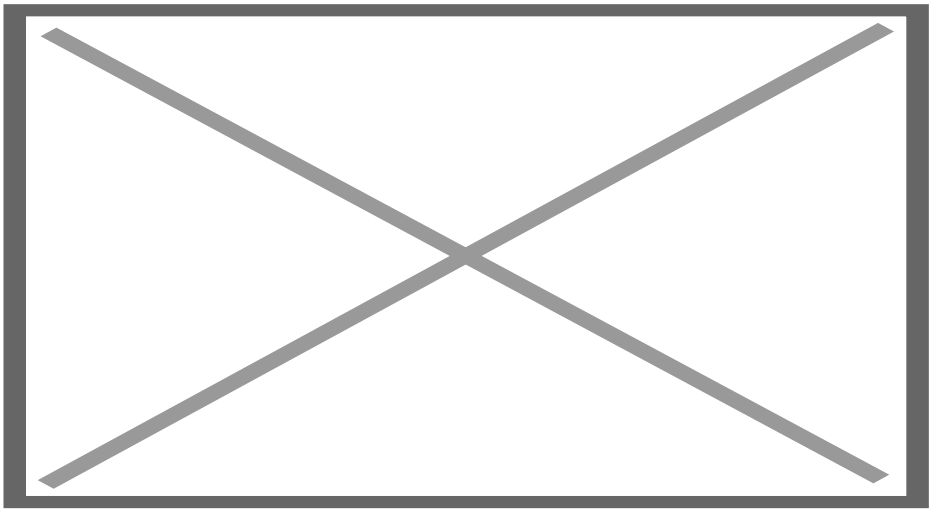
Télécharger la fiche détaillée

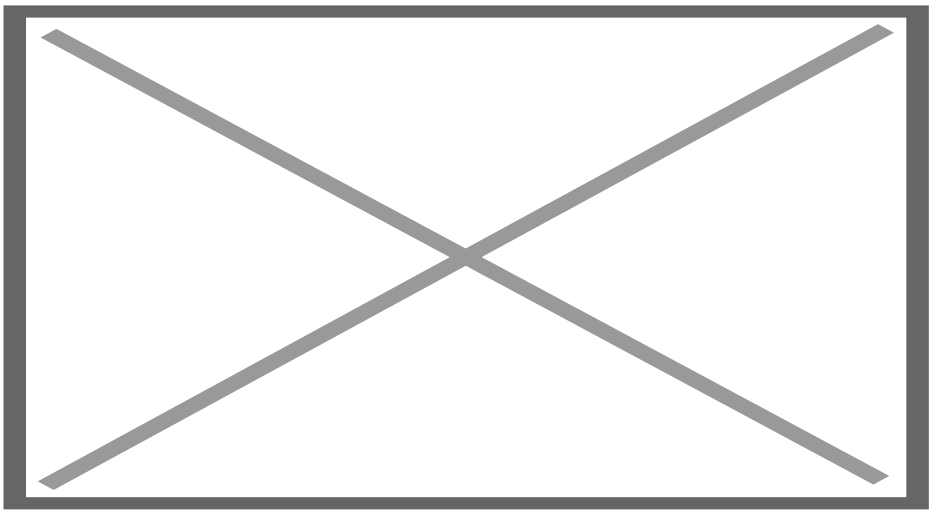
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The Master’s program builds **four essential competencies**:

- **Scientific Approach:** design and conduct research projects, develop innovative ideas, and analyze data responsibly.
- **Expertise**
- - Acquire specialized knowledge in your field and at the interface of multiple disciplines.
- - Continuously update knowledge and stay informed about current research.
- - Synthesize scientific literature and master new technological tools independently.

- **Scientific Communication:** present and discuss results clearly in English or French, using the right tools for reports, presentations, and publications.
- **Professional Skills:** work independently and in teams, interact with diverse partners, plan effectively, and act ethically.

Outcomes: gain a **research-driven mindset**, transferable skills, and international experience to prepare for **PhD programs, research careers, or roles in life sciences and health**.

Objectives

We offer an innovative Master's program designed to provide you with a **solid and broad-based foundation in Life Sciences and Health**, while preparing you for research careers and international opportunities. Entirely taught in English during the first year (Master 1), our program welcomes both international and national students who wish to experience a global academic environment on a **world-class and highly competitive campus** in Europe.

The primary aim of the ITF is to give you **strong disciplinary knowledge across key areas of modern biology** while fostering the ability to analyze scientific literature, design and carry out research projects, and tackle concrete biological questions. **Through a carefully designed curriculum** featuring a **Major** to deepen your expertise, **elective courses** to broaden your perspective, and a **dedicated Research Training block**, you will progressively develop the core competencies, preparing you to further strengthen them and move toward **expert proficiency in Master 2**.

The ITF program at the Orsay site is specifically tailored for students planning to pursue a Master 2 specialization in fields such as microbiology, neuroscience, and molecular and cellular biology. It offers a broad foundation that also encompasses areas like cancer biology, stem cell research, and cutting-edge biotechnologies.

Flexibility is a key feature of the program. A wide range of electives and the possibility to personalize your pathway allow you to adapt the curriculum to your interests and career goals. An intensive internship provides valuable hands-on experience and strengthens both theoretical understanding and practical abilities in your chosen field.

Beyond scientific training, the ITF offers you an immersive international experience that promotes personal growth and professional development. Working and studying in a multicultural environment helps students cultivate transferable skills such as adaptability, teamwork, resilience, and cross-cultural awareness—qualities increasingly sought after by employers worldwide. Graduates benefit from a unique profile that combines advanced scientific expertise with international exposure, making them highly competitive for PhD programs, research positions, and careers across the life sciences and health sectors.

Whether you are an international student seeking a high-level entry into French Master programs or a French student eager to broaden your horizons, the ITF provides a research-driven education, a stimulating environment, and the freedom to design a pathway that matches your ambitions.

Débouchés

Further Study Opportunities

M2 Cognition, behavior and mental disorders
M2 Tissue, Cell and Gene Biotherapies
M2 Systems and Synthetic Biology
M2 Genetics, Genomics, Epigenetics and Evolution
M2 Human Genomics In Biotherapy, Health and Disease
M2 Fundamental Microbiology
M2 Systems Neuroscience : from cells to brain functions
M2 Computational Neuroscience and Neuroengineering
Other M2 Tracks (French C1 + Prerequisites)
2nd year Master's Stem cells, Development & Cancer
M2 Endocrinology and Metabolism

Admission

Admission Route

Life Sciences
Life and Earth Sciences

Capacity

Available Places

15

Target Audience and Entry Requirements

We welcome motivated students from around the world, including France, who hold a degree equivalent to a French National Bachelor’s (Licence) in Life Sciences. Candidates should have a solid background in key areas of biology relevant to the program—molecular biology, biochemistry and signaling, cell biology, and genetics—and an English proficiency at the C1 level.

Admission is a two-step process:

1. Application review based on academic performance, motivation, and career goals.
2. Online interview for shortlisted candidates.

Période(s) de candidature

Inception Platform

From 15/01/2026 to 31/03/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

Completed questionnaire (to download on the master's web page).

PJ en bas de page

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

Certificate of English level.

Curriculum Vitae.

Additional supporting documents

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

compulsory ONLY for someone applying for validation of professional experience in order 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.

Questionnaire

This document is mandatory for your application to be processed :

Word version: Download the master 2 specialisation selection sheet

PDF version: Download the master 2 specialisation selection sheet

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Compulsory								
Core courses : Genes, proteins and cells	10	Semestre 1	56.5	41	46			
Charger le détail								
Core courses : Transdisciplinary project	2.5	Semestre 1		10	15			
Charger le détail								
Masteriales	2.5	Semestre 1	2	15				
Charger le détail								
Languages and communication								
English for Sciences ORSAY	2.5	Semester 1		25				
Charger le détail								
Intercultural communication: "Let's Talk, How university students see the world"	2.5	Semestre 1		6	24			
Charger le détail								
Français Langue Etrangère	2.5	Semestre 1	11	10				
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	7.5	Semestre 2	4						
Charger le détail									
Scientific project	5	Semestre 2	4						
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	distan learn cour

Optional Internship	0	Semestre 1
Charger le détail		
UE libre_2 S2 - 2,5 ECTS	2.5	Semestre 1
Charger le détail		
EUGLOH events	0	Semestre 1
Charger le détail		
UE libre_1 S1 - 2,5 ECTS	2.5	Semestre 1
Charger le détail		
UE libre_2 S1 - 2,5 ECTS	2.5	Semestre 1
Charger le détail		
UE libre_1 S2 - 2,5 ECTS	2.5	Semestre 2
Charger le détail		

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Ecological transition	2.5	Semester 2	8	14				
Charger le détail								
Introduction to human genetics	2.5	Semester 2	12	11				
Charger le détail								
Animal transgenesis	2.5	Semestre 2	14	9				
Charger le détail								
Cellular economics	2.5	Semestre 1	13		10			

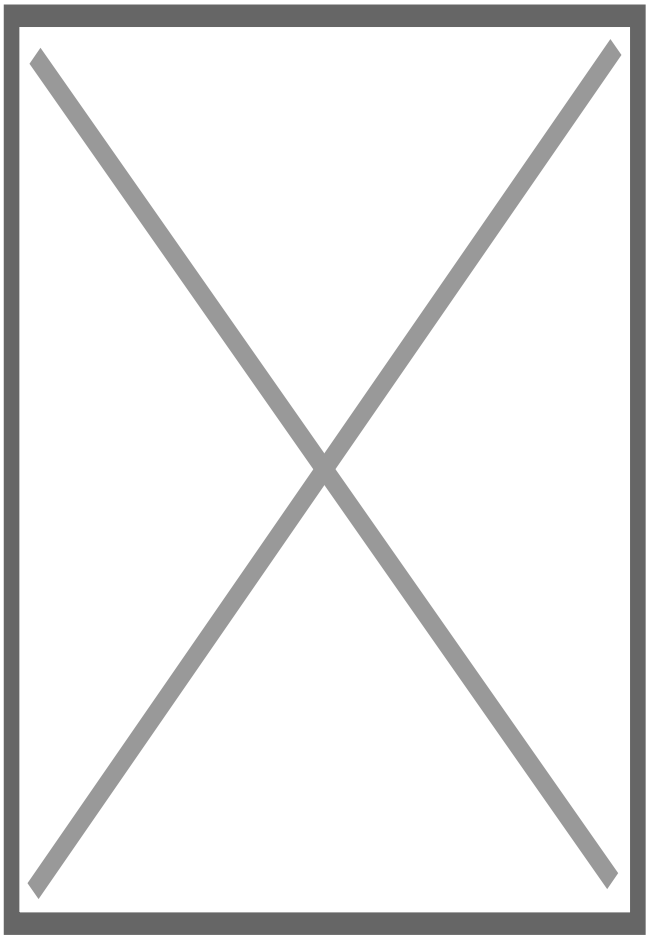
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practic class
Charger le détail Systems Biology I	2.5	Semestre 1	14	9				
Charger le détail Workshop on model organisms / HELIX1	2.5	Semester 1	2		23			
Charger le détail Workshop on model organisms / HELIX2	5	Semester 1	4		48			
Charger le détail Technologie des neurosciences / Methods in Neuroscience	5	Semester 1		5	41			
Charger le détail Molecular and cellular endocrinology	5	Semester 1	42					
Charger le détail Introduction to biotherapies, from stem cells to organoids	2.5	Semestre 2	6	5	12			
Charger le détail Immuno-pathophysiology	2.5	Semestre 2	14	9				
Charger le détail Functional (epi)genomics and precision medicine	2.5	Semestre 2	14	9				
Charger le détail Systems Biology II	2.5	Semestre 1	14	9				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
Epigenetics Charger le détail	2.5	Semestre 2	13	10				
Synthetic Biology Charger le détail	2.5	Semestre 2	14	9				
Current Questions in Evolution Charger le détail	5	Semestre 2	37					
Lipids and membranes in patho-physiology Charger le détail	2.5	Semester 2	13	10				
Integrative microbiology Charger le détail	2.5	Semestre 2	10	10				
Physiopathologie endocrinienne Charger le détail	2.5	Semester 2	19	4				
Neurobiology of emotions and decision making Charger le détail	2.5	Semester 2						
Neurobiology of Integrated Systems Charger le détail	5	Semester 2						
In vivo stem cells dynamics and function Charger le détail	2.5	Semestre 1	14	9				
Cell reprogramming and regeneration Charger le détail	2.5	Semester 2	14	9				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed	Lecture/practical	directed study/practic class
DNA Damage Repair in Normal and Cancer Cells Charger le détail	2.5	Semester 1		23				
Current Topics in Neuropathology and Research Design Charger le détail	5	Semester 1	22	24				
Chromatin control of Gene expression Charger le détail	2.5	Annualized	10	6	7			

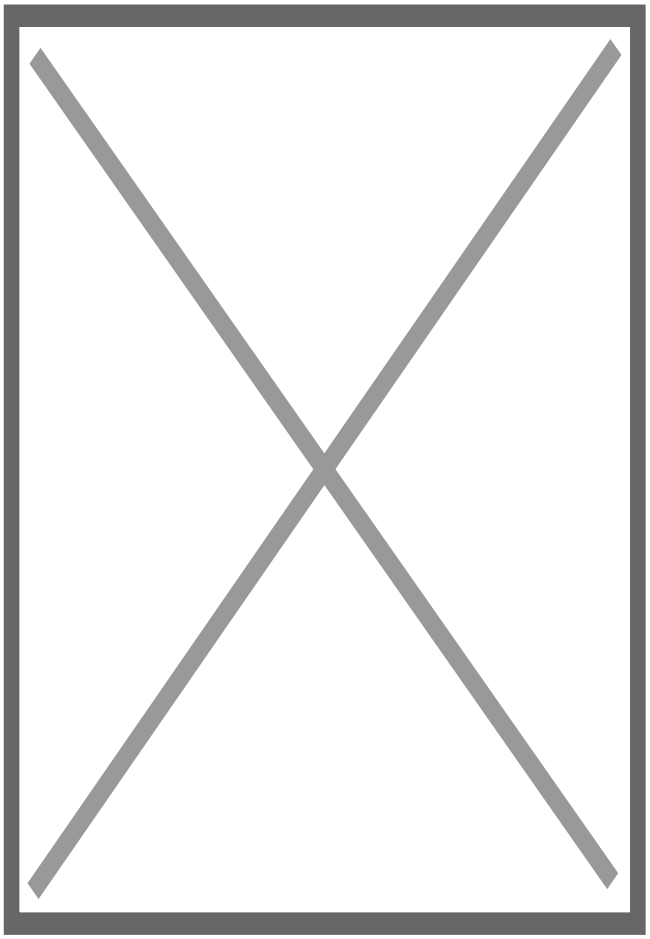
Training campus

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Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Student restaurant (CROUS)
Library
Sports facilities
Student residence



Evry

Evry
Bus 9105, 4504
RER D Evry Courcouronnes
Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Odile Bronchain**

  PR

- **Laurent THEODORE**

  PR

http://www.universite-paris-saclay.fr/formation/master/microbiologie/m1-international-track-france-site-orsay