Université Paris-Saclay

Partager

Email destinataire :

Vous devez renseigner un email valide

Envoyer

Une erreur est survenue. Merci de réessayer ultérieurement

Le mail de partage a bien été envoyé.

Ajouter au comparateur

M1 International Track in France, Site Orsay

Master
Mentions Microbiologie | Neurosciences | Biologie moléculaire et cellulaire
Régime(s) d'inscription
Formation initiale
Formation continue
Langue(s) d'enseignement
Anglais

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)

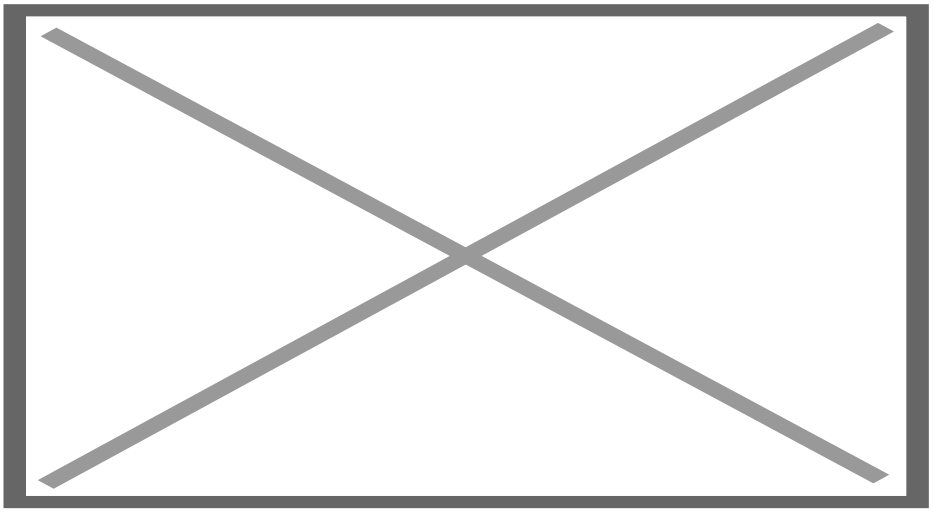
The heart of your M1, giving focus to your studies and allowing you to dive deeper into your chosen scientific area.

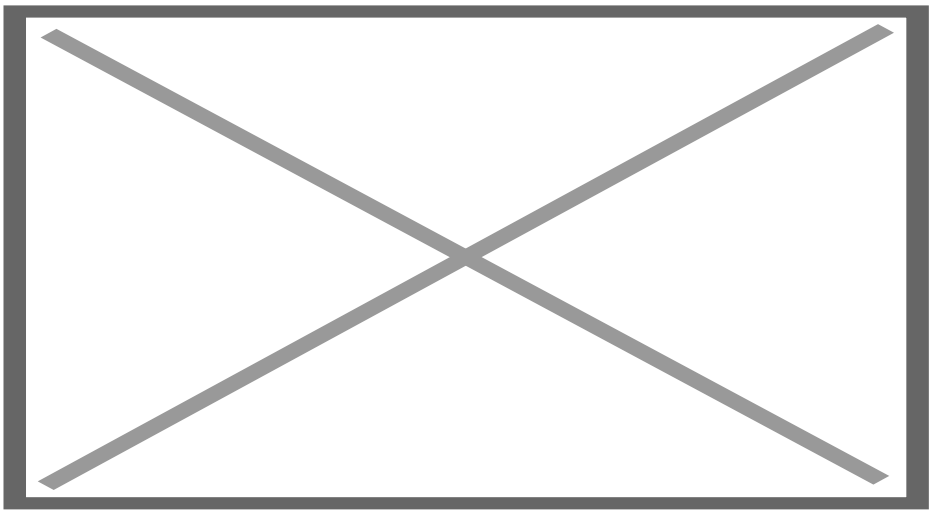
In parallel, expand your horizons! **Explore other disciplines,** broaden your scientific culture, and develop a cross-disciplinary perspective.

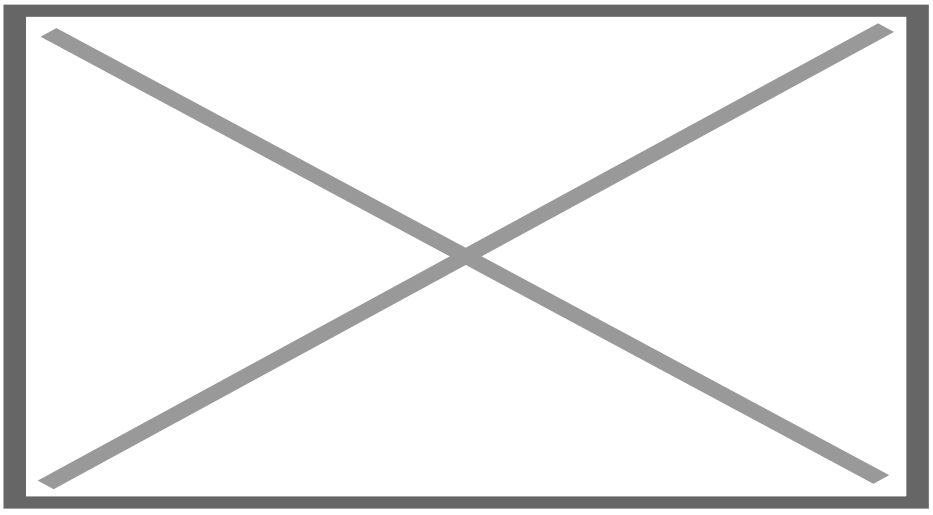
Research Training (12.5 ECTS)

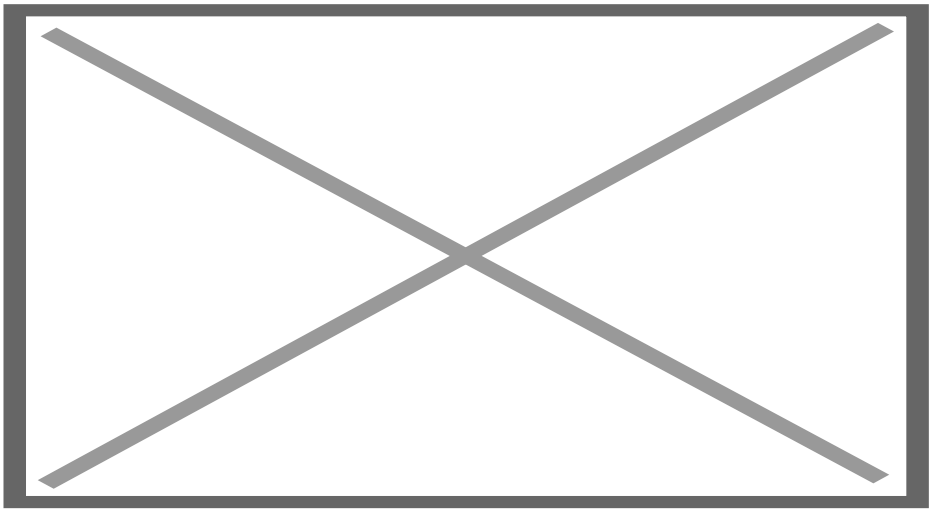
Step into real research with a literature review and a hands-on internship.

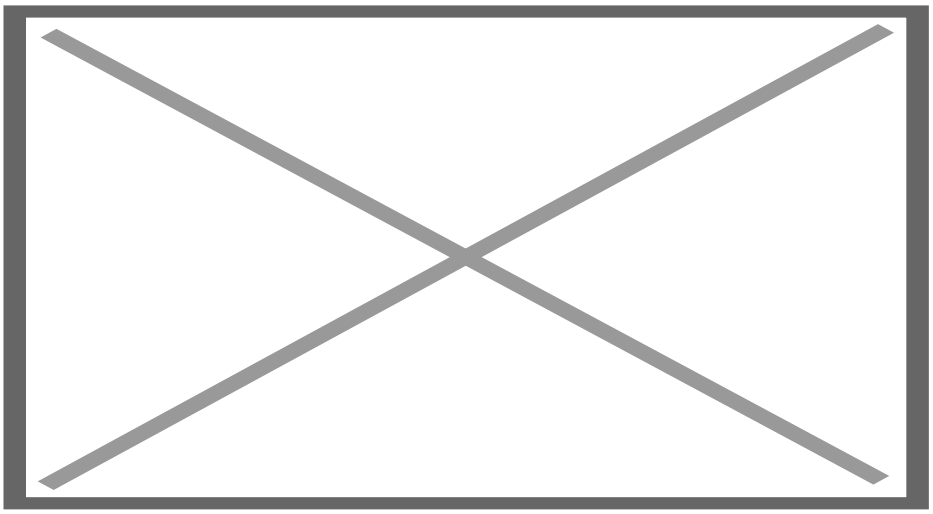
Télécharger la fiche détaillée
Je candidate











Informations

- Présentation
- Admission
- Programme

Présentation

Compétences

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**.

Objectifs pédagogiques de la formation

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

Poursuite d’études

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)
M2 Stem cells, Development & Cancer
M2 Endocrinology and Metabolism

Admission

Voie d’accès

Sciences de la vie
Sciences de la vie et de la Terre

Capacité d’accueil

Places

15

Public visé et prérequis

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

Plateforme Inception

Du 15/01/2026 au 31/03/2026

Pièces justificatives

Obligatoires

Lettre de motivation.

Questionnaire rempli (à télécharger sur la page web du master).

PJ en bas de page

Tous les relevés de notes des années/semestres validés depuis le BAC à la date de la candidature.

Attestation de niveau d'anglais.

Curriculum Vitae.

Facultatives

Dossier VAPP (obligatoire pour toutes les personnes demandant une validation des acquis pour accéder à la formation) https://www.universite-paris-saclay.fr/formation/formation-continue/validation-des-acquis-de-lexperience.

compulsory ONLY for someone applying for validation of professional experience in order to enter the diploma.

Document justificatif des candidats exilés ayant un statut de réfugié, protection subsidiaire ou protection temporaire en France ou à l'étranger (facultatif mais recommandé, un seul document à fournir) :
- Carte de séjour mention réfugié du pays du premier asile
- OU récépissé mention réfugié du pays du premier asile
- OU document du Haut Commissariat des Nations unies pour les réfugiés reconnaissant le statut de réfugié
- OU récépissé mention réfugié délivré en France
- OU carte de séjour avec mention réfugié délivré en France
- OU document faisant état du statut de bénéficiaire de la protection subsidiaire en France ou à l'étranger.

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

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet Tutorat
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										

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet Tutorat
Internship	7.5	Semestre 2	4							
Charger le détail										
Scientific project	5	Semestre 2	4							
Charger le détail										

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet Tutorat
Optional Internship	0	Semestre 1								
Charger le détail										
UE libre_2 S2 - 2,5 ECTS	2.5	Semestre 1								

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet	Tutorat
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									

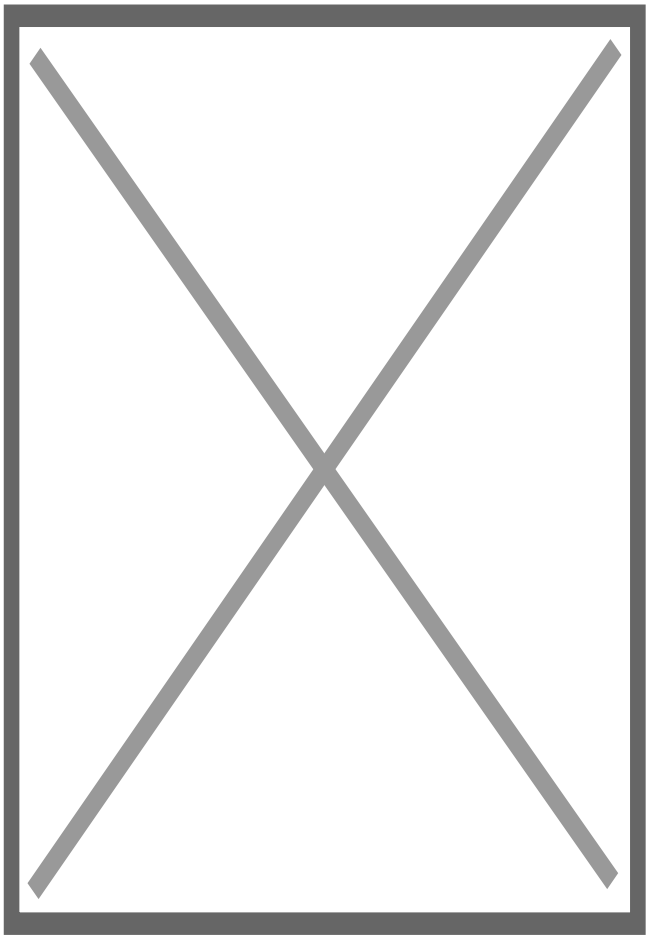
Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet	Tutorat
Charger le détail Ecological transition	2.5	Semester 2	8	14							
Charger le détail Introduction to human genetics	2.5	Semester 2	12	11							
Charger le détail Animal transgenesis	2.5	Semestre 2	14	9							
Charger le détail Cellular economics	2.5	Semestre 1	13		10						
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						

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet Tutorat
Charger le détail Endocrinologie moléculaire et cellulaire / 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 Epigenetics	2.5	Semestre 2	13	10						
Charger le détail Synthetic Biology	2.5	Semestre 2	14	9						
Charger le détail Current Questions in Evolution	5	Semestre 2	37							
Charger le détail Lipids and membranes in patho-physiology	2.5	Semester 2	13	10						
Charger le détail Integrative microbiology	2.5	Semestre 2	10	10						
Charger le détail Physiopathologie endocrinienne	2.5	Semester 2	19	4						
Charger le détail Neurobiology of emotions and decision making	2.5	Semester 2								

Matières	ECTS	Semestre	Cours	TD	TP	Cours-TD	Cours-TP	TD-TP	A distance	Projet	Tutorat
Charger le détail Neurobiology of Integrated Systems	5	Semester 2									
Charger le détail In vivo stem cells dynamics and function	2.5	Semestre 1	14	9							
Charger le détail Cell reprogramming and regeneration	2.5	Semester 2	14	9							
Charger le détail DNA Damage Repair in Normal and Cancer Cells	2.5	Semester 1		23							
Charger le détail Current Topics in Neuropathology and Research Design	5	Semester 1	22	24							
Charger le détail Chromatin control of Gene expression	2.5	Annualized	10	6	7						
Charger le détail											

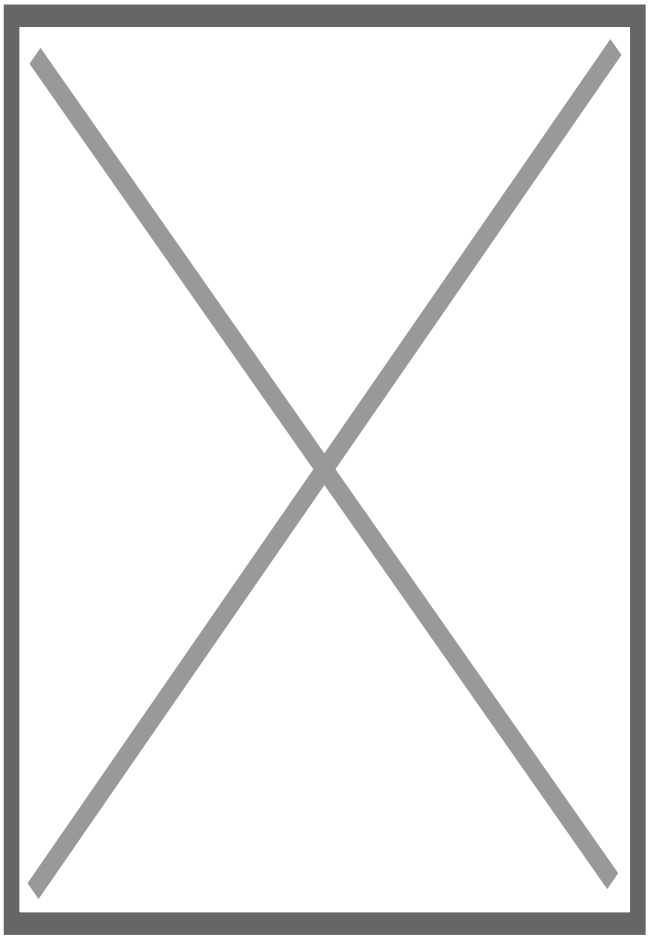
Campus de la formation

Javascript est requis pour visualiser cette carte.



Saclay Moulon

Saclay / Gif-sur-Yvette / Orsay
Bus 4606 / 4609 / 4611 / 5154
RER B Le guichet
Voir
Restaurant CROUS
Bibliothèque
Equipements sportifs
Résidence étudiante



Evry

Evry
Bus 9105, 4504
RER D Evry Courcouronnes
Voir
Restaurant CROUS
Bibliothèque
Résidence étudiante
Equipements sportifs

Contact(s)

- **Odile Bronchain**

  PR
- **Laurent THEODORE**

  PR

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