Université Paris-Saclay
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M2 Reproduction and development

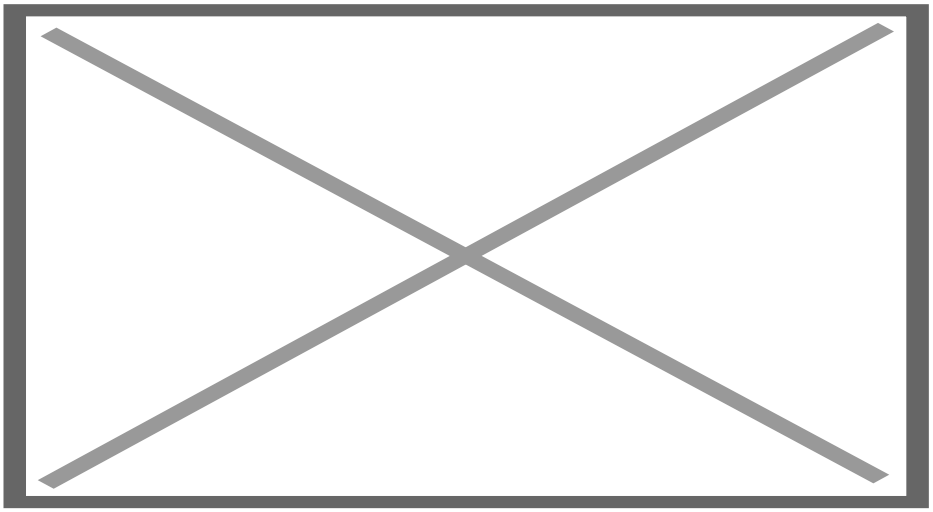
Master's degree
Specialisation Biologie moléculaire et cellulaire
Language(s) of instruction
English
French

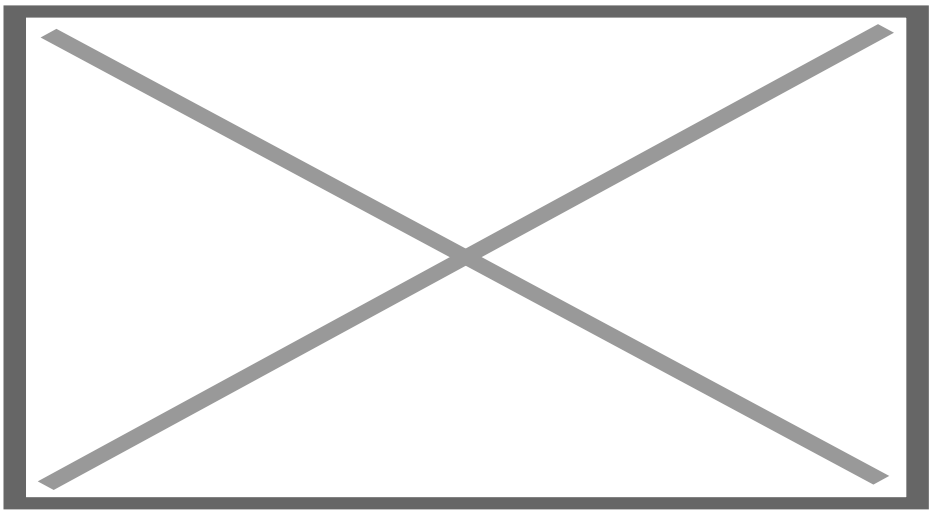
The significant advances in the control of reproduction, along with the importance of fundamental, applied, and medical issues in the fields of reproduction and development, make these two disciplines central to everyone’s life. The ReproDev program offers a multidisciplinary education that encompasses all levels of study, from molecules to phenotypes, within the context of normal, disrupted, or pathological mechanisms. It is training through research and for research.

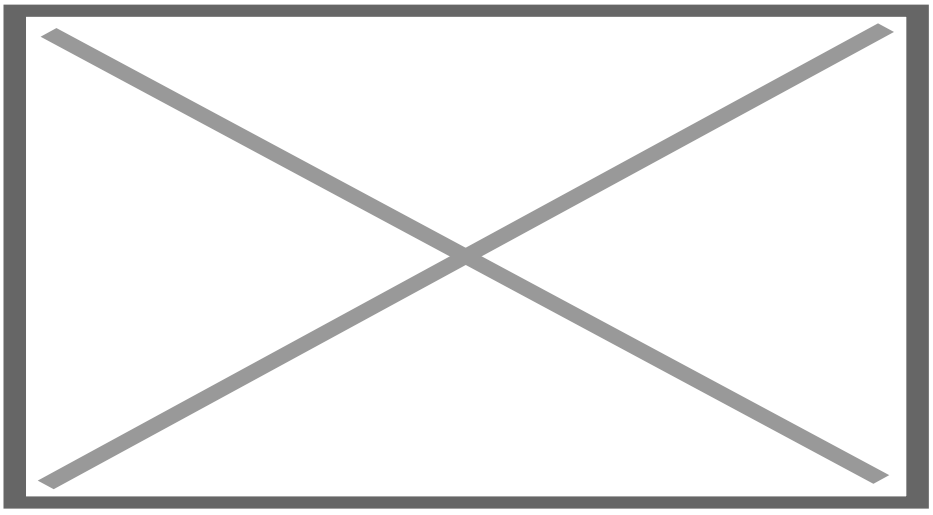
The first semester is dedicated to theoretical instruction, organized across November and December. A total of **10 teaching units (UEs)** are offered. Each UE is worth **3 ECTS credits**, and includes **24 hours of lectures and conferences** and **6 hours of seminar** sessions (*except UE1*). One **seminar project** is worth **6 ECTS**. Students must complete **6 UEs**:

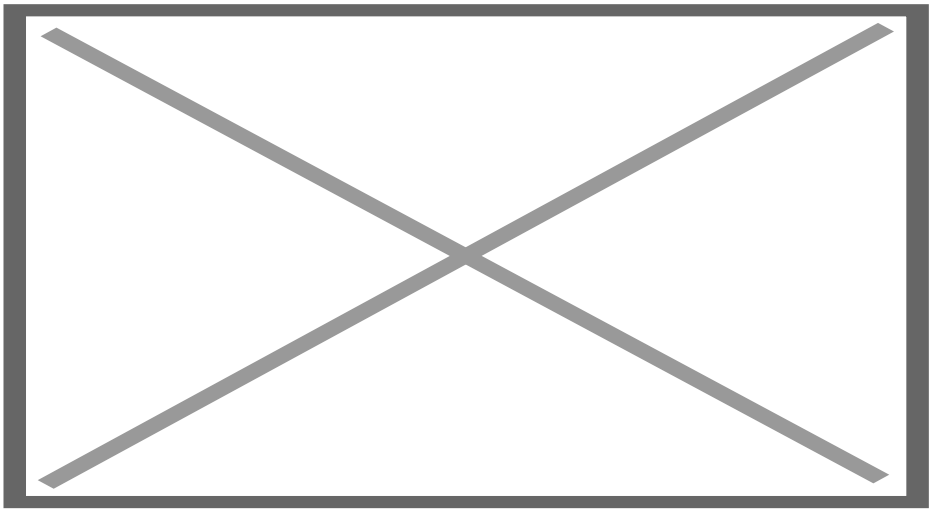
- **UE1 is mandatory**
- **3 UEs** must be selected from the **ReproDev course list**
- The remaining **2 UEs** can be chosen either from:
    - ReproDev offerings,
    - Other tracks of the **BIP Master’s program**,
    - Or another Master’s program (with approval from the track coordinator)

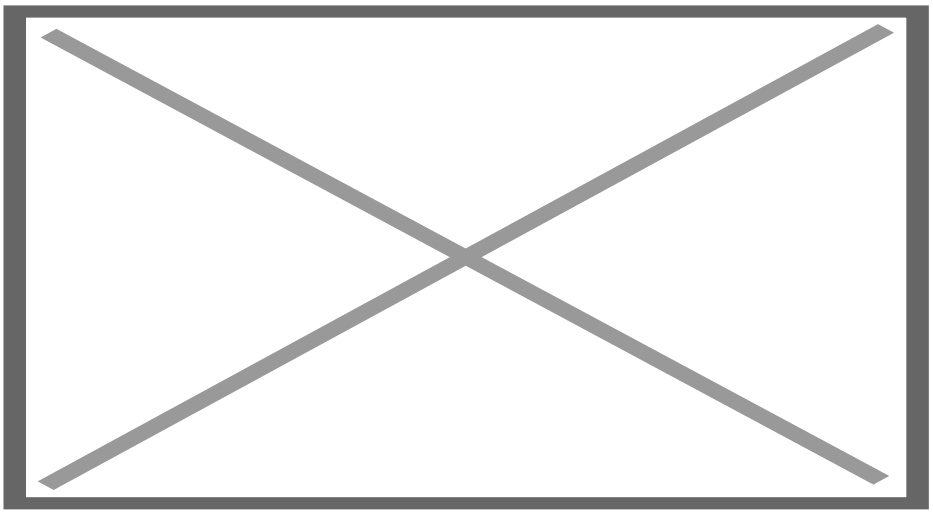
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Information

- Overview
- Application requirements
- Schedule

Présentation

Objectives

To meet research needs in Reproduction and Development, we offer a programme derived from and supporting research in this field. The second year of our Master’s degree aims to train students in the concepts, methods, and practices of fundamental, clinical and applied research.It pursues several goals:

- acquiring modern concepts and multidisciplinary methods of research in Biology and specifically in Reproduction & Development;
- developing critical skills, common sense and intuition;
- developing skills in analysis and synthesis;
- developing teamwork skills and a sense of collective responsibility;

- developing communication and oral skills.This programme is based on the science and health courses of the Master 1 Biology-Health degree. All courses are pooled in Master 1 and organised into platforms (course options), grouped into five main science fields. The recommended platforms in Master 1 are:
- physiology and physiopathology;
- genetics, molecular and cellular biology.

Débouchés

Career prospects

After a Master's + PhD: researcher or lecturer
Research and Innovation Manager
Project Manager
Study coordinators or project managers in clinical research
Teacher (after the CAPES or 'agrégation' competitive exam)
Research or Design Engineer
R&D Engineer

Further Study Opportunities

PhD

Admission

Capacity

Available Places

15

Target Audience and Entry Requirements

Students who have completed the Master in Integrative Biology Physiology M1 (Université de Paris), or the Master in Molecular and cellular Biology. (Université Paris-Saclay). INAPG and ENVA students who have completed the Master M1. Students who hold an M1 Master of Science in Biology, Physiology, Biochemistry or Genetics from a University that provides a comparable level of education in France (Ecole de l'INSERM School, ENS) or abroad. Students in Medicine, Pharmacy or Maieutics with an M1 or equivalent

Période(s) de candidature

Inception Platform

From 02/03/2026 to 12/06/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Curriculum Vitae.

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

Additional supporting documents

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

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

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	
Différenciation fœtale et périnatale - Orsay	3	Semestre 1	25	3					

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
Le développement placentaire: De l'implantation à la naissance	3	Semestre 1	27	6					
Charger le détail									
Génétique de la reproduction et de la différenciation sexuelle - Orsay	3	Semestre 1	24	3					
Charger le détail									
De la fécondation à l'implantation - Orsay	3	Semestre 1	24	6					
Charger le détail									
De la cellule germinale souche à la fécondation - Orsay	3	Semestre 1	26	6					
Charger le détail									
UE2 libre à 3 ECTS	3	Semestre 1							
Charger le détail									
UE1 libre à 3 ECTS	3	Semestre 1							
Charger le détail									
Médecine de la reproduction - Orsay	3	Semestre 1	26	6					
Charger le détail									
Toxicologie de la reproduction	3	Semestre 1	30						
Charger le détail									
Biologie du développement	3	Semestre 1	20.5						

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
Charger le détail									
Endocrinologie de la reproduction	3	Semestre 1	19						
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
Projet tutoré - Orsay	9	Semestre 1							
Charger le détail									
Base de la reproduction et du développement - Orsay	3	Semestre 1	30						
Charger le détail									
Anglais P18 - Orsay	3	Semestre 1							
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Stage en laboratoire P18 - Orsay	30	Semestre 2							
Charger le détail									

Teaching Location(s)

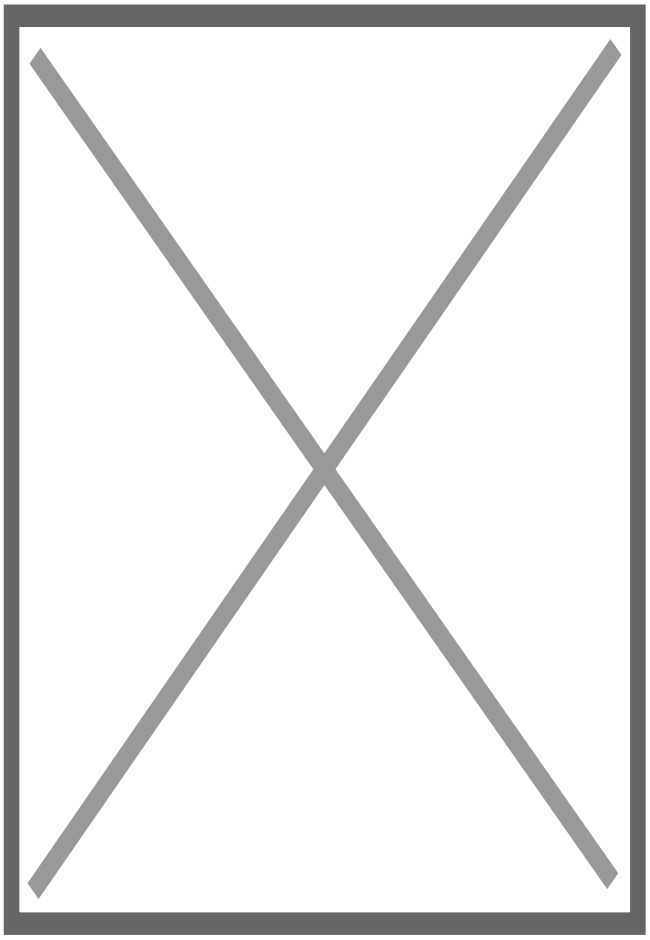
PARIS 15
LE KREMLIN BICETRE

Academic Partner(s)

Paris Cité

Training campus

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Kremlin-Bicêtre

Kremlin-Bicêtre
Bus 125, 186, 323
Métro 14 Hôpital Bicêtre
Voir
Student restaurant (CROUS)

Contact

- ### Gérard TACHDJIAN

  responsable de formation

- ### Secrétariat Master Biologie Santé Médecine

  Gestionnaire scolarité

http://www.universite-paris-saclay.fr/formation/master/biologie-moleculaire-et-cellulaire/m2-reproduction-et-developpement