Université Paris-Saclay

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M1 Biotherapies and Stem Cells - Evry campus

Master's degree

Specialisation Biologie moléculaire et cellulaire

Enrolment type

Formation initiale

Formation continue

Language(s) of instruction

English

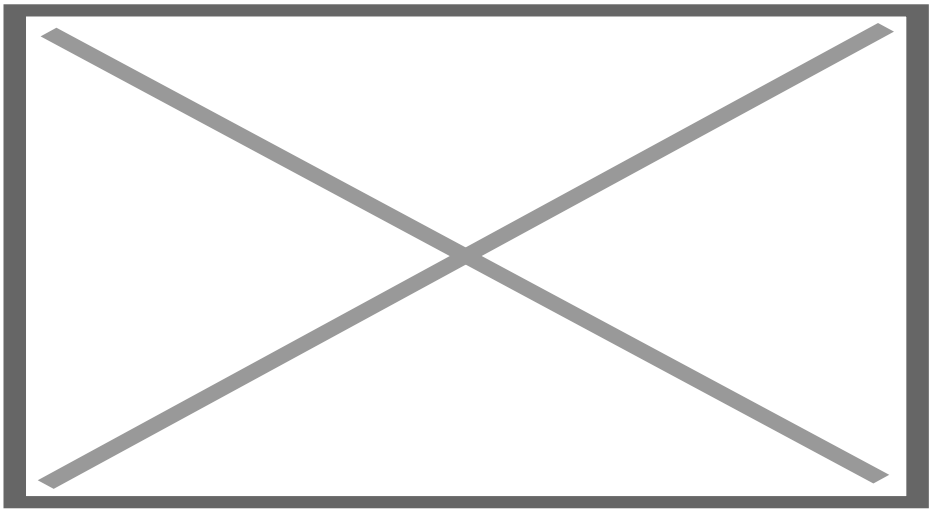
French

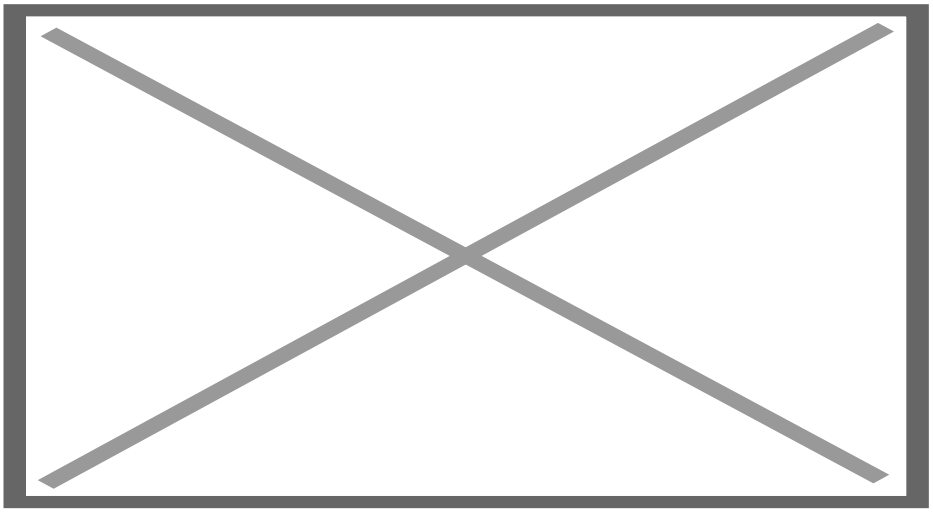
Explore the molecular and cellular foundations of stem cell biology and learn about the latest approaches to innovative therapies, cell engineering and translational research!

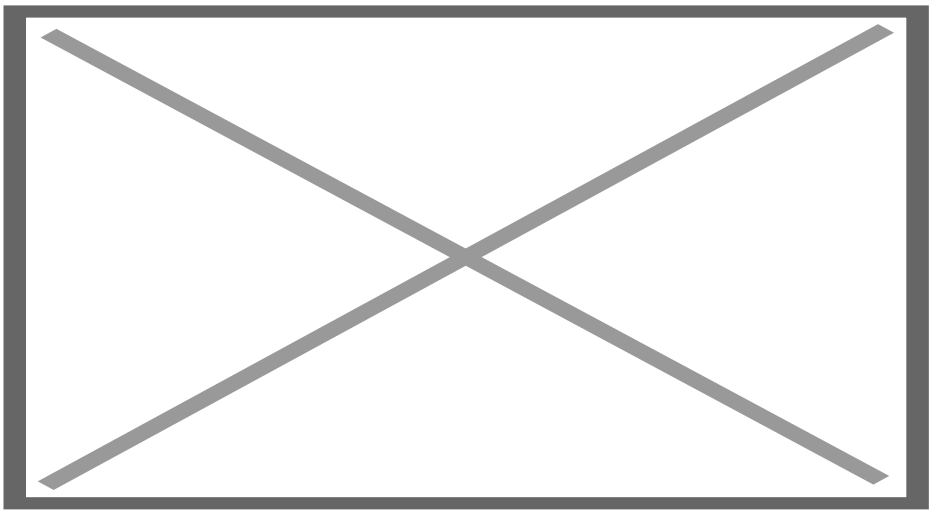
The **1st year Master's BMC Biotherapies and stem cells** is organised around **four blocks of knowledge and competencies**: **Methods and Fundamentals for the Study of Living Organisms** (12.5 ECTS) **A springboard to an integral understanding of the life sciences**! Strengthen key disciplines (scientific English, cellular and molecular biology, biochemistry, cell signalling and genomics) while developing the essential methodological competencies for analysing biological systems. **Biotherapies and stem cells Major** (25 ECTS)** Give your 1st year Master's a specific focus by choosing from among the many TUs offered in the core of your course. **Minor (10 ECTS)** Broaden your **scientific culture** to develop a cross-disciplinary approach. **Immersion in Research (12.5 ECTS)** Dive right into the heart of research: Draft a **bibliographic dissertation** and complete an **8-week laboratory internship**. For the more inquisitive, combine the core TUs of two Majors to develop a double course.

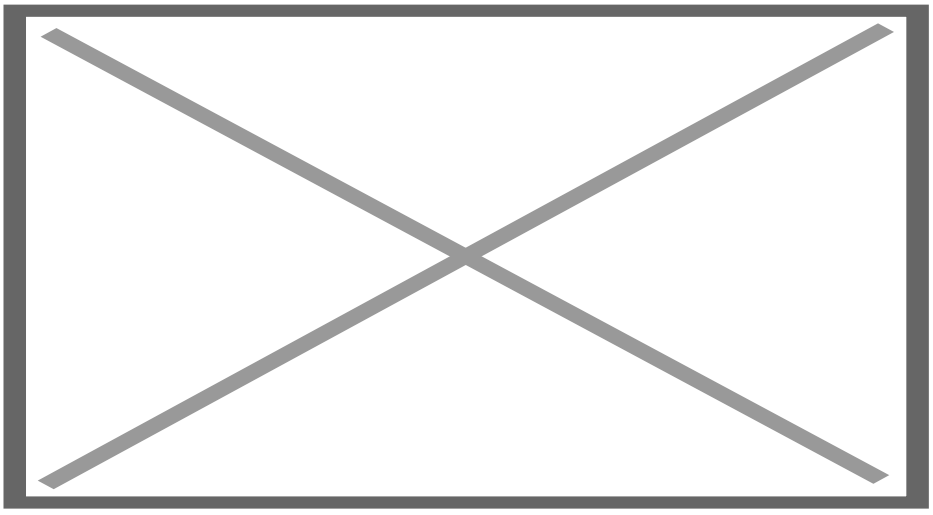
Télécharger la fiche détaillée

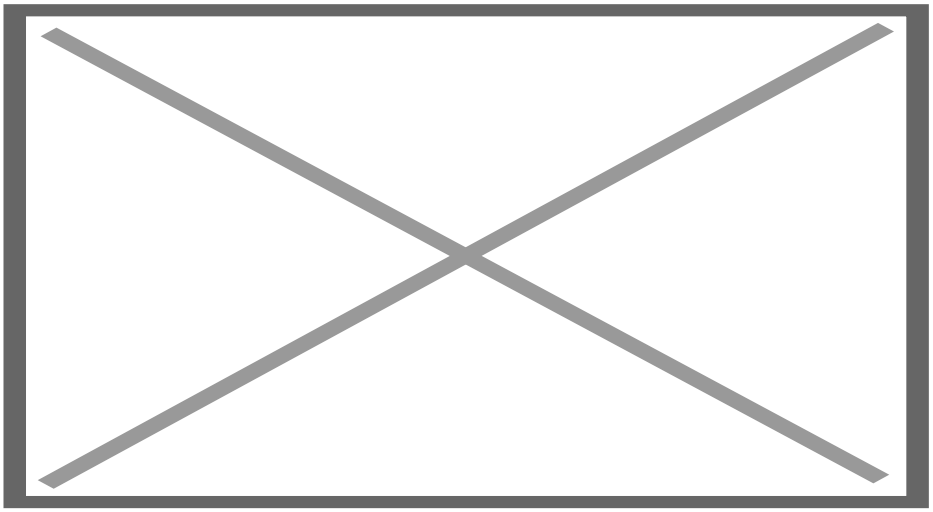
Apply Now











Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Competency 1: Scientific approach C1. Take a scientific approach, develop innovative ideas and produce new knowledge. Competency 2: Expertise, critical thinking and self-training C2. Acquire highly specialised disciplinary knowledge and methodologies in one field and at the interface of several fields of work (complex interdisciplinarity) Competency 3: Scientific communication C3.3: Extract and scrutinise relevant information from scientific documents or lectures in English. Competency 4: Professional soft skills C4. Analyse and adapt actions to a professional context

Objectives

The **Biotherapies and stem cells** course in the Master of Molecular and Cellular Biology offers a curriculum in and through research. You will **consolidate your disciplinary foundations**, learn to **analyse scientific literature**, **lead projects** and **work on specific problems**, while enjoying the freedom to **personalise your course** according to your preferences and ambitions. *Plan your course now using the online tool: \https://master-biologie-sante.eu/parcours/index.php]*. In particular, the **Biotherapies and Stem Cells** Major allows you to explore the links between fundamental biological processes and **innovative therapies**. You benefit from a **unique freedom to plan your course through a wide choice of TUs**. You will learn about the **study of stem cells** *in vitro* or *in vivo*, the mechanisms that govern **development, differentiation, tissue regeneration or the emergence of cancers**, and discover the main principles of **cell therapy**, **gene therapy** or **precision medicine**. Other TUs allow you to delve deeper into cross-disciplinary themes in cell biology, genetics or genomics, or to discover innovations such as **organoids**, **immunotherapy strategies**,

transgenesis and **vectorisation** techniques. This flexibility allows you to plan your course and start developing targeted expertise in the disciplines that interest you and where you plan to pursue your studies for your 2nd year Master's.

Débouchés

Career prospects

Research & Development Engineer
Research and Innovation Manager
Research or Design Engineer
Research professions

Further Study Opportunities

M2 Gene, Cell, Development and Diseases
M2 Genetics, Genomics, Epigenetics and Evolution
M2 Human Genomics In Biotherapy, Health and Disease

Admission

Admission Route

Life Sciences
Life and Earth Sciences

Capacity

Available Places

7

Target Audience and Entry Requirements

Hold a National undergraduate degree in Life Sciences or Life and Earth Sciences, obtained before September 1st of the academic year for which you are applying. Have a solid foundation in the fundamentals of biology: Molecular biology, cell biology, biochemistry, genetics. Must have validated TUs in the 2nd/3rd year undergraduate degree in line with the themes of the relevant course. For international French-speaking students: Have a diploma equivalent to an undergraduate degree in Life Sciences, guaranteeing the same

prerequisites, obtained before 1st September of the academic year for which you are applying. If your full-time academic programme is highly specialised, we recommend that you first apply for a 3rd year undergraduate degree in Life Sciences (National diploma). Required level of French: C1 (certification). For English-speaking international students: You may apply to the International track in France if you graduated with a Bachelor degree, major in Biology, or if you will graduate before Sept 1st of the academic year for which you apply.

Période(s) de candidature

Inception Platform

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

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

Motivation letter.

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

Curriculum Vitae.

Additional supporting documents

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

Cette fiche n'est pas demandée si vous êtes ou serez diplomé·e d'une Licence ou d'un Bachelor obtenu en France ou à l'international.
Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Formation Préparatoire	0	2	22,5	7,5				
Mineure (parcours BTCS)	0	9	22,5	7,5				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Méthodes et Fondamentaux pour l’Exploration du Vivant	0	2	22,5	7,5				
Immersion Recherche	0	3	22,5	7,5				
Majeure 1 (Double Majeure BTCS)	0	1	22,5	7,5				
Majeure 2 (Double Majeure BTCS)	0	5	22,5	7,5				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Formation Préparatoire	0	2	22,5	7,5				
Majeure BTCS	0	1	22,5	7,5				
Mineure (parcours BTCS)	0	9	22,5	7,5				
Méthodes et Fondamentaux pour l’Exploration du Vivant	0	2	22,5	7,5				
Immersion Recherche	0	3	22,5	7,5				

Training campus

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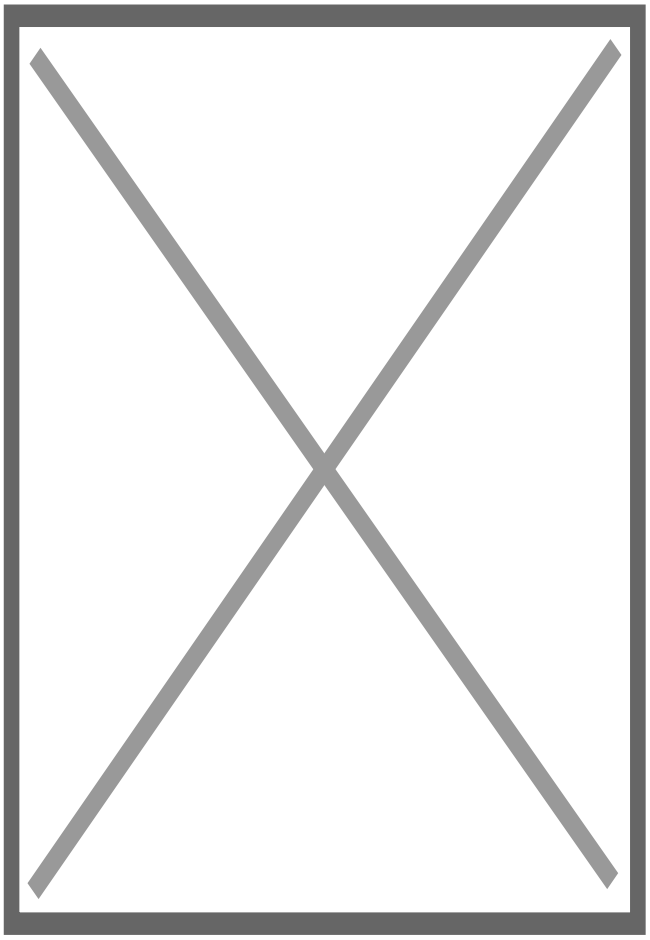

Evry

Evry
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Voir
Student restaurant (CROUS)
Library
Student residence
Sports facilities

Contact

- **Laetitia AUBRY**
- **Nathalie HOLIC**

http://www.universite-paris-saclay.fr/formation/master/biologie-moleculaire-et-cellulaire/m1-biotherapies-et-cellules-souches-site-evry