Université Paris-Saclay
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M2 Biology of Aging

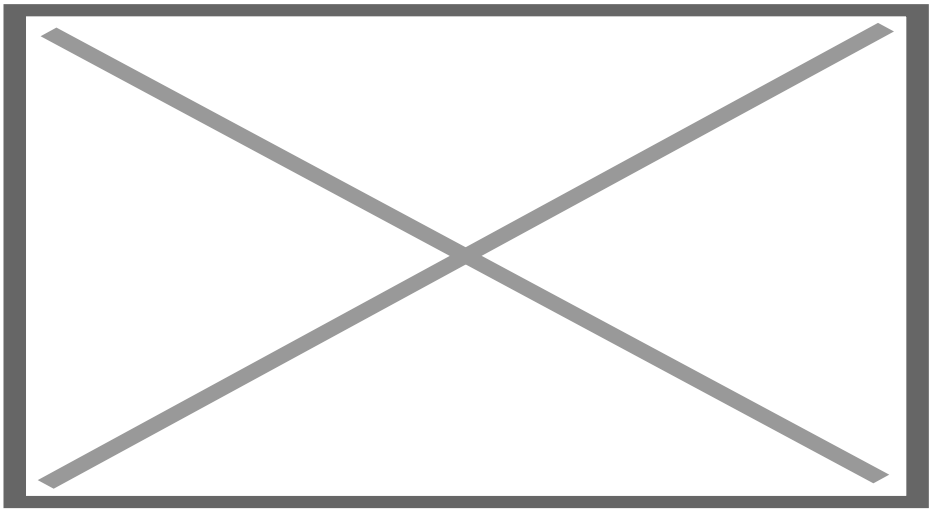
Master's degree
Specialisation Biologie moléculaire et cellulaire
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
French

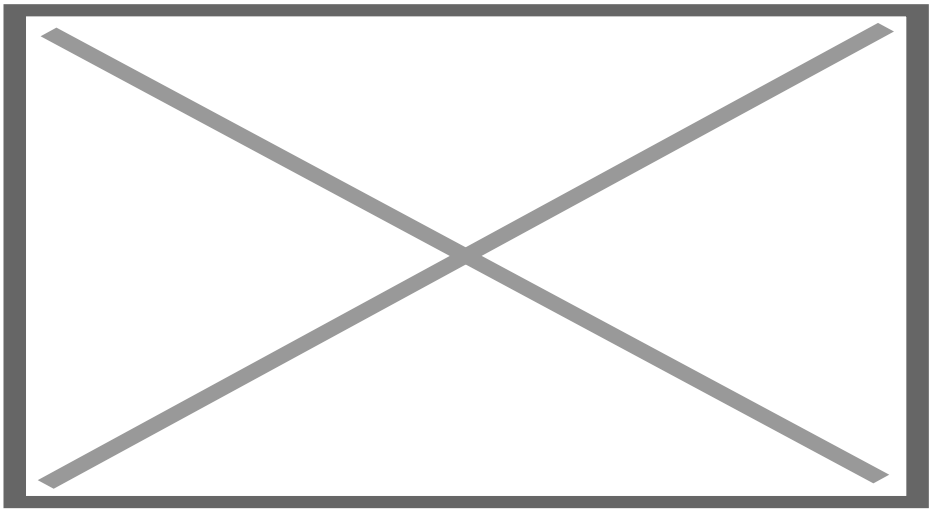
Aging is characterized by the gradual deterioration of bodily functions over time, associated with an increased risk of developing age-related diseases (neurodegenerative diseases, cardiovascular diseases, cancers, etc.). The biology of aging aims to better understand the mechanisms involved in these processes and to identify interventions that promote healthy aging, which are major public health issues.

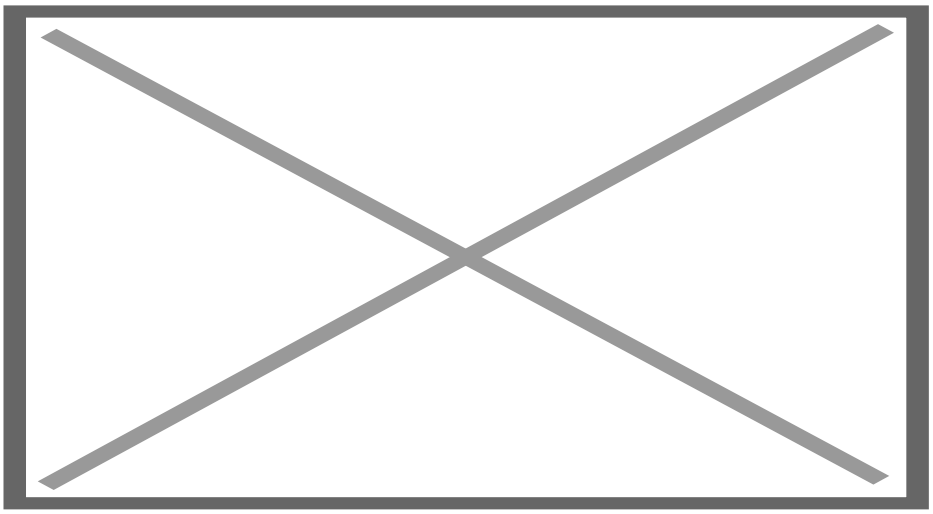
The M2 program in biology of aging is a multidisciplinary course that enables students to acquire knowledge about the mechanisms involved in aging and associated pathologies at different levels, from molecules to organisms. It thus provides training in fundamental and translational research in the field of aging.

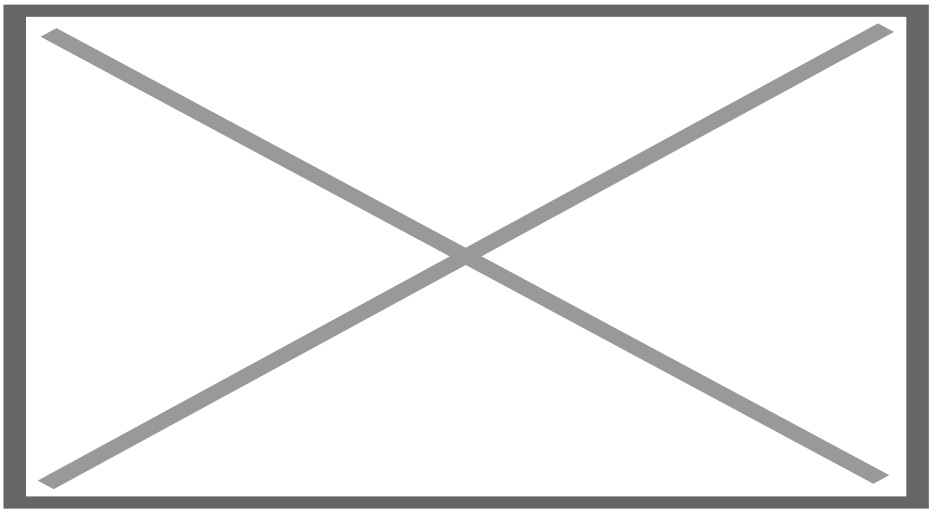
This program has been developed in partnership with Paris Cité University and University of Lille.

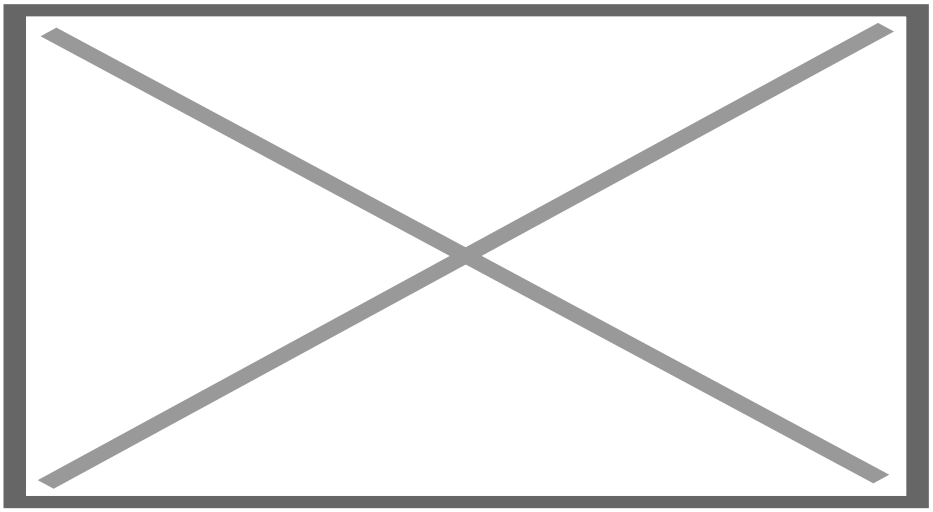
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

- Acquisition of knowledge on the cellular and molecular mechanisms involved in the aging of organs and tissues, as well as on the pathophysiological mechanisms involved in age-related diseases.
- Acquisition of knowledge on experimental methods and approaches in the field of aging and degenerative diseases.
- Ability to analyze experimental data.
- Documentation and bibliographic synthesis.
- Written and oral scientific communication.
- Ability to formulate research objectives.
- Ability to debate, particularly between healthcare professionals and researchers.
- Proficiency in scientific English.
- Participation in a research project as part of a team.
- Learning to work in a team while demonstrating autonomy and initiative.
- Carrying out the experimental procedures necessary to complete a research project and analyzing the data produced.
- Ability to critically analyze and synthesize scientific information from the literature.
- Oral communication in French and English. Writing a thesis.
- Ability to argue and debate.

Objectives

Training future leaders in fundamental and translational research on the mechanisms of aging and age-related diseases: engineers, researchers, and research professors from public institutions and industry, as well as university hospital clinicians in the health sciences.

Preparation for doctoral school entrance exams on thesis projects related to this field.

Débouchés

Career prospects

Design engineer industry / public research
Research professions
Lecturer (after a PhD)

Further Study Opportunities

PhD

Admission

Admission Route

Life Sciences

Capacity

Available Places

14

Période(s) de candidature

Inception Platform

From 02/05/2026 to 04/07/2026

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

Certificate of French (compulsory for non-French speakers).

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
Science en anglais Charger le détail	3	Semestre 1	20					
Projet de recherche Charger le détail	6	Semestre 1	15					
Présentation bibliographique Charger le détail	3	Semestre 1	15					

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dista learn cou
Stage en laboratoire	30	Semestre 2							

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/pract class
UEs Obligatoires								
Mécanismes fondamentaux du vieillissement	3	Semestre 1	15		14.5			
Charger le détail								
Maladie neurodégénératives, vieillissement neuroendocrinien	3	Semestre 1	25					
Charger le détail								
Vieillissement des organes et systèmes intégrés	3	Semestre 1	25					
Charger le détail								
Cancer et vieillissement, longévité et prévention	3	Semestre 1	25					
Charger le détail								
Nutrition et vieillissement	3	Semestre 1	25					
Charger le détail								
UE au choix								
Immunité et vieillissement : de la physiologie à la pathologie	3	Semestre 1	24					
Charger le détail								
Development and Cancer Colloquium (Institut Curie International Course)	3	Semestre 1	18	0				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/pract class
Charger le détail Neural stem cells and neurogenesis	3	Semestre 1	15	5				
Charger le détail Autre UE	3	Annualisé						
Charger le détail								

Teaching Location(s)

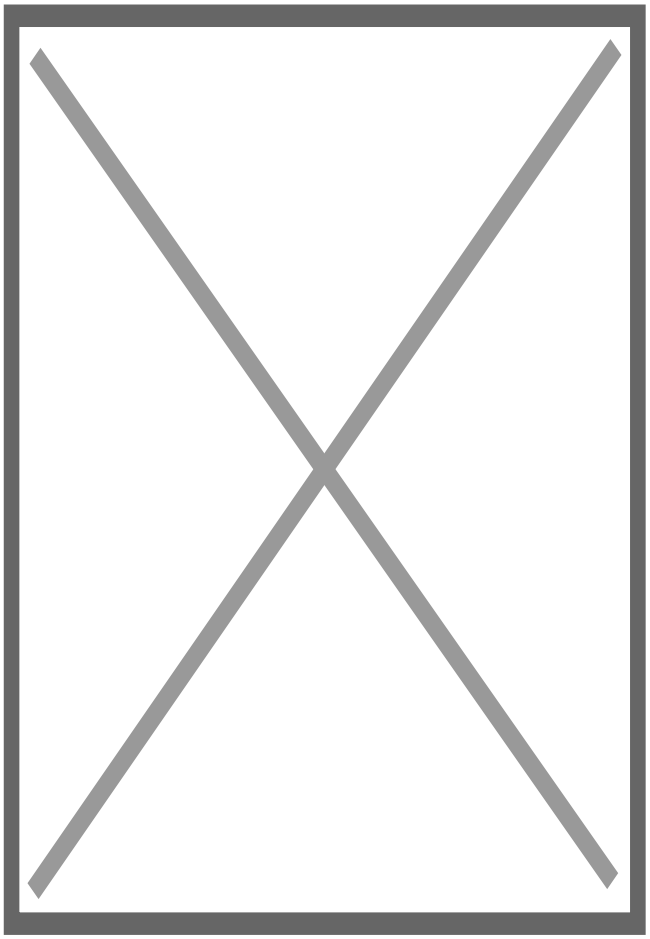
MONTIGNY LE BRETONNEUX
PARIS 06
PARIS 13
VERSAILLES

Academic Partner(s)

Université de Lille et Paris Cité

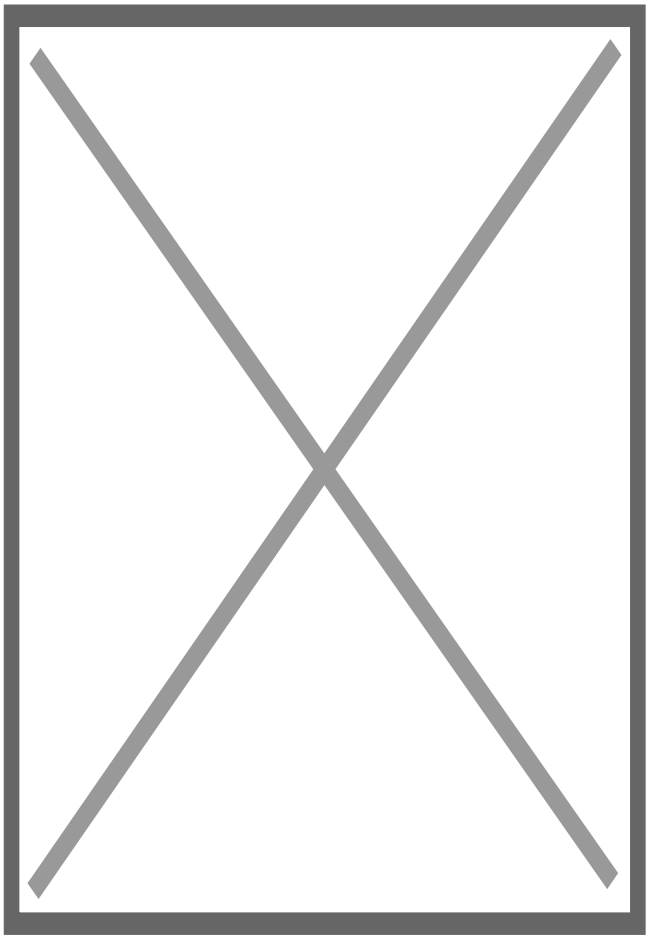
Training campus

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Versailles

Versailles
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Versailles Rive Droite - Ligne L
RER C Versailles Château Rive gauche
Voir
Student restaurant (CROUS)
Library
Student residence



Saint-Quentin-en-Yvelines

Saint-Quentin-en-Yvelines
Bus 5103, 5150, 5198, 7807
RER C Saint-Quentin-en-Yvelines
Voir
Student restaurant (CROUS)
Student residence
Library

Contact

- **Jean-Marc CORSI**

  Responsable M2 Biologie du Vieillissement

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