Université Paris-Saclay

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Add to Compare

M2 Pharmacologie Préclinique, Pharmacologie clinique et Pharmacocinétique

Master's degree
Specialisation Pharmaceutical Science
Enrolment type
Formation initiale
Language(s) of instruction
French

The program aims to train scientists skilled in the concepts and methodologies of

- the discovery of new therapeutic targets;
- the design and optimization of the use of effective drugs while ensuring patient safety.

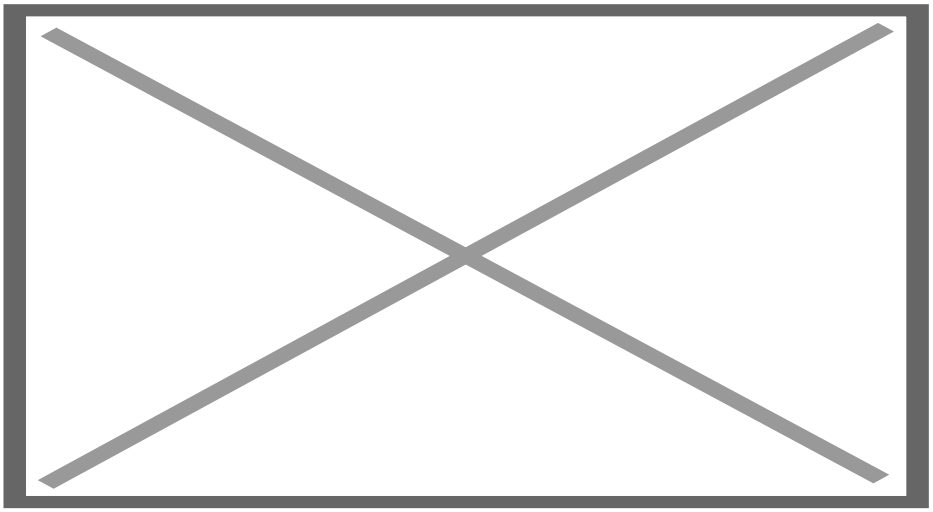
The Master 2 program prepares students for research careers in academic or industrial environments, as well as for various positions where scientific expertise will be valued (medical affairs, innovation , etc.).

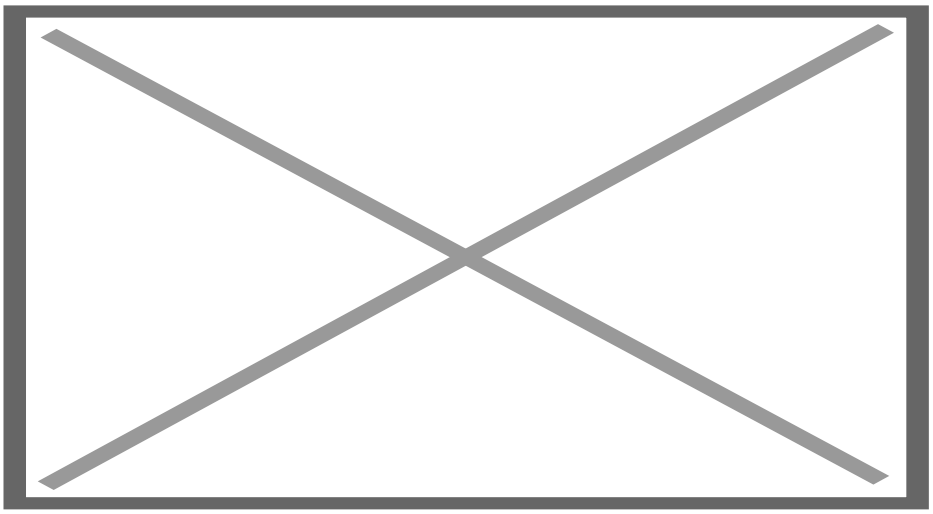
The training is organized into four blocks:

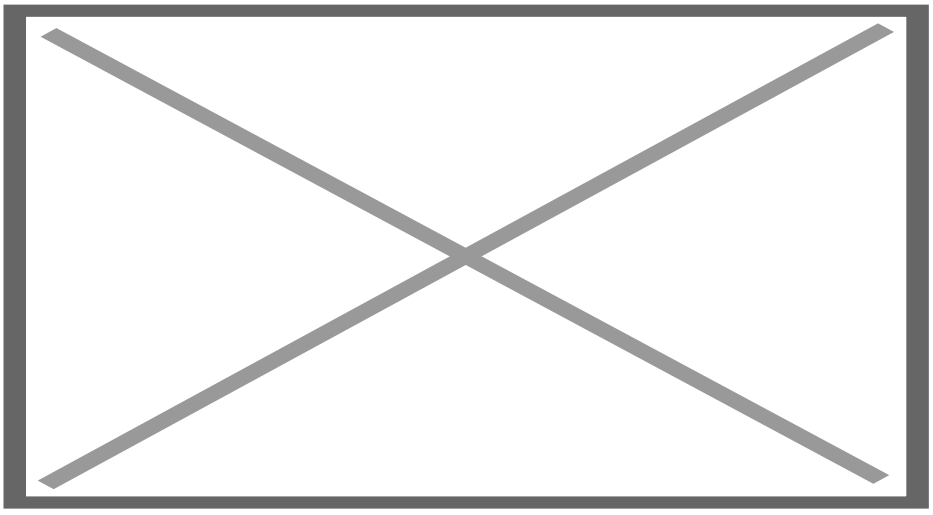
1. Clinical Pharmacology and Pharmacokinetics: Therapeutic Drug Monitoring of the Patient (8 ECTS credits)
2. Experimental Pharmacology Track (choice of Cardiovascular track or Neuropharmacology track) (12 ECTS credits)
3. Designing and Conducting a Research Project (10 ECTS credits)
4. Research Internship (30 ECTS credits)

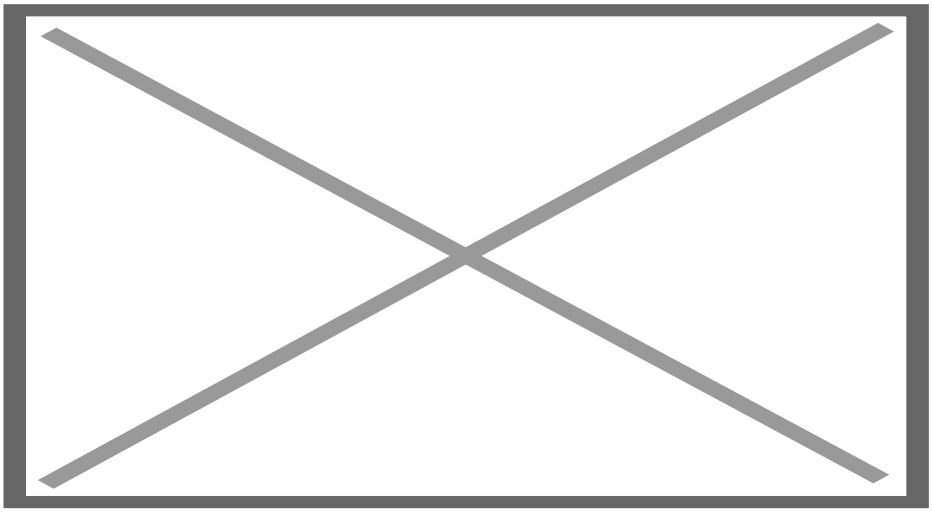
Some courses are shared with the Master 2 Bioinnov program at Paris-Saclay University.

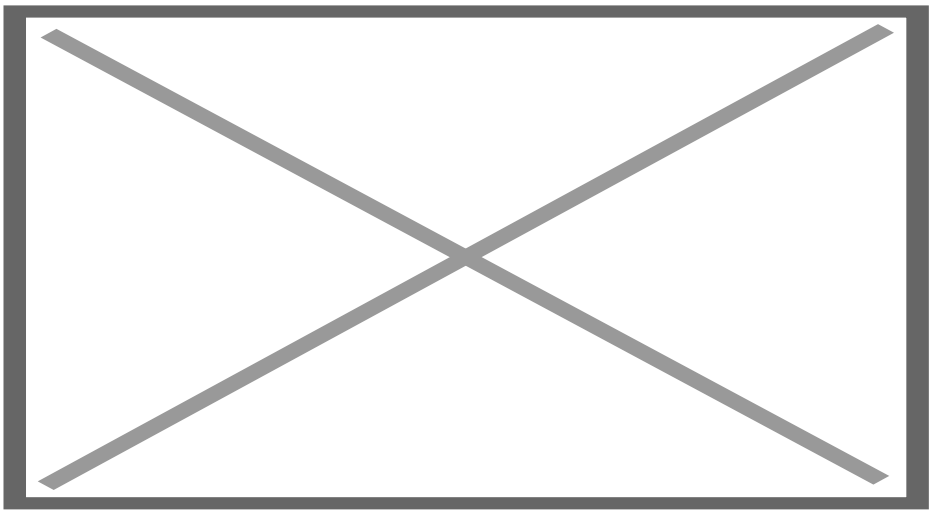
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

+ Cross-functional Skills

- Mobilize and produce highly specialized knowledge
- Implement specialized communication for knowledge transfer

+ Scientific Skills

- Identify targets or biomarkers through the analysis of biological mechanisms and pathological processes
- Plan, design, and conduct biological assays to evaluate a health product

- Design and implement a non-clinical or clinical study of a health product
- Evaluate the benefit-to-risk ratio of a health product
- Conduct a Therapeutic Pharmacologic Monitoring approach
- Argue the relevance of scientific and strategic choices, including ethical and/or professional conduct aspects

Objectives

+ Scientific Objectives:

To train students in the research and development of health products by providing them with the scientific background necessary to understand the continuum from the discovery of biological targets to therapeutic pharmacological monitoring of patients.

+ Professional Objectives:

To acquire the scientific and cross-disciplinary skills required by future executives in the pharmaceutical research and development sector in academia, industry, or hospitals.

This master's degree is not intended to train students in the organization and monitoring of clinical trials (clinical research assistants/attaches, clinical study technicians, etc.)

Débouchés

Career prospects

After a Master's or Master's + PhD: researcher or lecturer
Design engineer in the research / scientific sector
Design engineer industry / public research
Research and Innovation Manager
Research or Design Engineer
Research professions
Coordination of studies in an agency or research institution

Further Study Opportunities

PhD thesis
Further curricula in innovation management

Specialised Master’s programmes (MBA in Project Management, Business, and Innovation Management in the Bio-industries)

Calendar

Start of programme (indicative date)
01/10/2026
End of programme (indicative date)
30/09/2027
Admission

Admission Route

Life Sciences
Health sciences

Capacity

Available Places

20

Target Audience and Entry Requirements

- students who have completed a Master's degree in Health Product and Drug Sciences or a related field (e.g., Biology, Biology-Health) at a university offering a level of education comparable to that of the Université Paris-Saclay, in France or in European Union countries;
- students who have completed studies in Health (Pharmacy, Medicine, Dentistry, Veterinary Science) in the European Union (and universities with an agreement), having completed the fifth year of study or an equivalent Master's degree;
- students with an engineering degree equivalent to a Master's degree;
- students from the INSERM School for research-oriented programs.

In all cases, admission will require validation of specific knowledge prerequisites by the Master's degree director: pharmacology, pharmacokinetics, drug and health product R&D. In this context, an interview with the candidate may be considered.

Période(s) de candidature

Inception Platform

From 01/04/2026 to 01/07/2026

Supporting documents

Compulsory supporting documents

Copy of identity document.

Motivation letter.

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

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

Curriculum Vitae.

Additional supporting documents

Certificate of English level.

Certificate of English level (compulsory for non-English speakers).

obligatoire

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

Recommendation letters.

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/practi class
Pharmacocinétique	4	Semestre 1	19	9				
Charger le détail								
Pharmacologie Clinique et Pharmacogénétique	4	Semestre 1	14	14				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practi class

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Parcours Pharmacologie Expérimentale: AU CHOIX : NEUROPSYCHO OU CARDIOVASC - 6 ECTS								
UEs BIOINNOV : 1 UE AU CHOIX selon parcours NEUROPSYCHO ou CARDIOVASC								
Cardiologie : Physiopathologie et Stratégies Thérapeutiques	3	Semestre 1	24					
Charger le détail								
Neuro/Psychiatrie : Pathologie, biomarqueurs et cibles thérapeutiques	3	Semestre 1	20	4				
Charger le détail								
UEs PHARMACOLOGIE : 1 UE AU CHOIX selon parcours NEUROPSYCHO ou CARDIOVASC								
Pharmacologie du Système Nerveux Central	3	Semestre 1	24	0				
Charger le détail								
Pharmacologie Cardiovasculaire	3	Semestre 1	18	3	0			
Charger le détail								
UEs Hors parcours - 6 ECTS								
1 UE libre au choix								
Nouveaux concepts en innovation diagnostique et thérapeutique	3	Semestre 1	24	0	0			
Charger le détail								
UE libre S1	3	Semestre 1						
Charger le détail								
UE libre S2	3	Semestre 2						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Pharmacologie Moléculaire OBLIGATOIRE								
Pharmacologie moléculaire	3	Semestre 1	8	12				

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Analyse article et élaboration d'un poster	4	Semestre 1	3	15				

Charger le détail

Présentation du projet de Recherche	2	Semestre 1		6				

Charger le détail

Statistiques et plans d'experiences	2	Semestre 1	2	7	7			

Charger le détail

English- Developping and communicating on a Research project	2	Semester 1	3	13				

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 de Recherche	30	Semestre 2							

Charger le détail

Teaching Location(s)

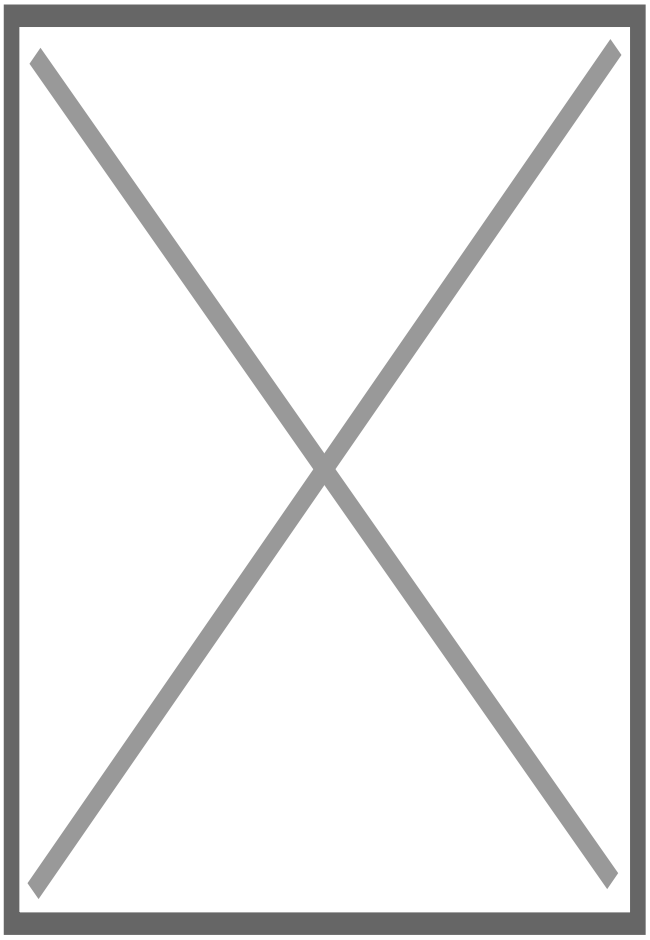
ORSAY
LE KREMLIN BICETRE

Programme

Detail of the programme

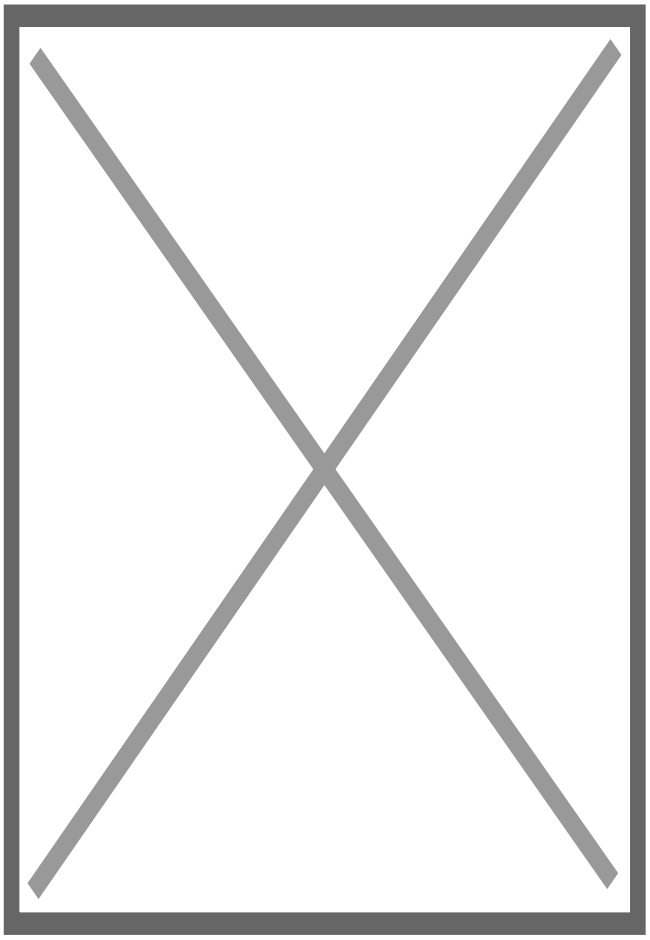
Training campus

Javascript est requis pour visualiser cette carte.



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



Kremlin-Bicêtre

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

Contact

- **Jean-Philippe GUILLOUX**

  PU
- **Boris Manoury**

  MCF

http://www.universite-paris-saclay.fr/formation/master/sciences-du-medicament-et-des-produits-de-sante/m2-pharmacologie-preclinique-pharmacologie-clinique-et-pharmacocinetique