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M1 Development of Drugs and Health Products

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

The master D2HP "Development of Drugs and Health Products" is part of the path “Sciences du Médicament et des Produits de Santé” offered at the Université Paris-Saclay. It is an international master totally taught in English (M1 and M2) with a "research" purpose (pursuit of a Doctorate) or "professional" (direct integration into the socio-economic world at the master level).

In M1 and M2 D2HP, the program is divided into 3 axes:

- Axis 1: Current issues in the major pathologies
- Axis 2: Pharmacist’s toolbox
- Axis 3: Transversal pharmaceutical disciplines

The M1 is composed of 2 semesters:

- the first semester offers theoretical and practical courses (including core and optional courses, group works, practical works and case studies) and an online competition, a serious game called “Rush Pharmaceutical Business Game”

- and the second semester is dedicated also to theoretical and practical courses and a 2-month internship. During the whole semester, the students will work on the organization of an international symposium that will last 2 days at the beginning of July. They will have also to present the results of their internship project under the format of a flash presentation.

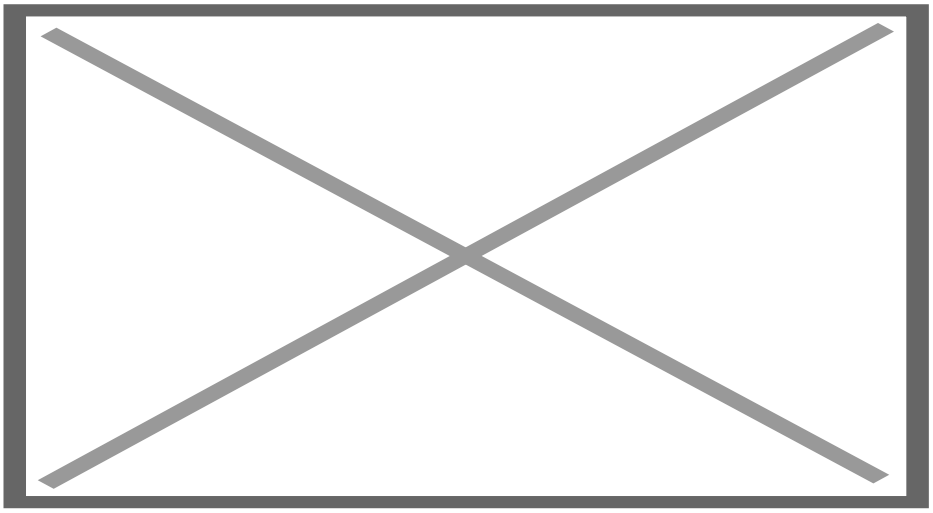
At the M2 level, the students specialize by choosing 2 of the 3 axes:

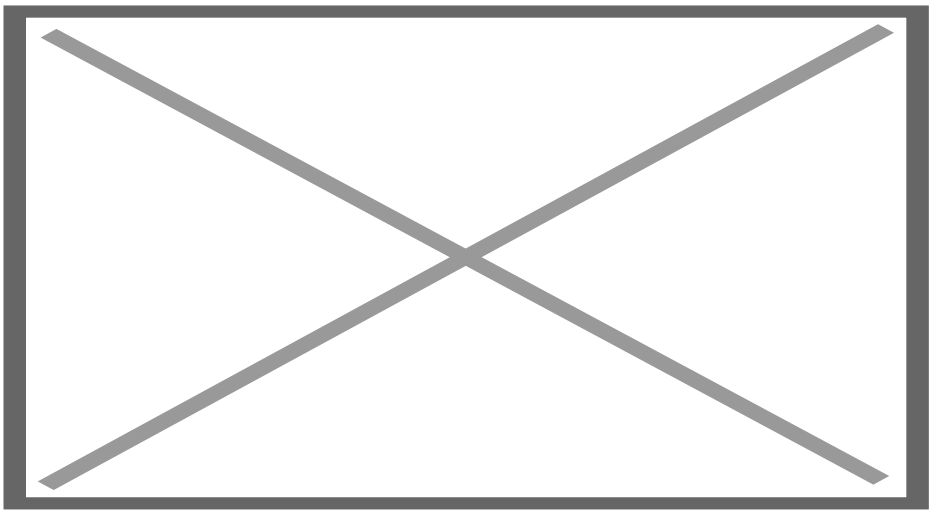
1- Axis 1 + Axis 2

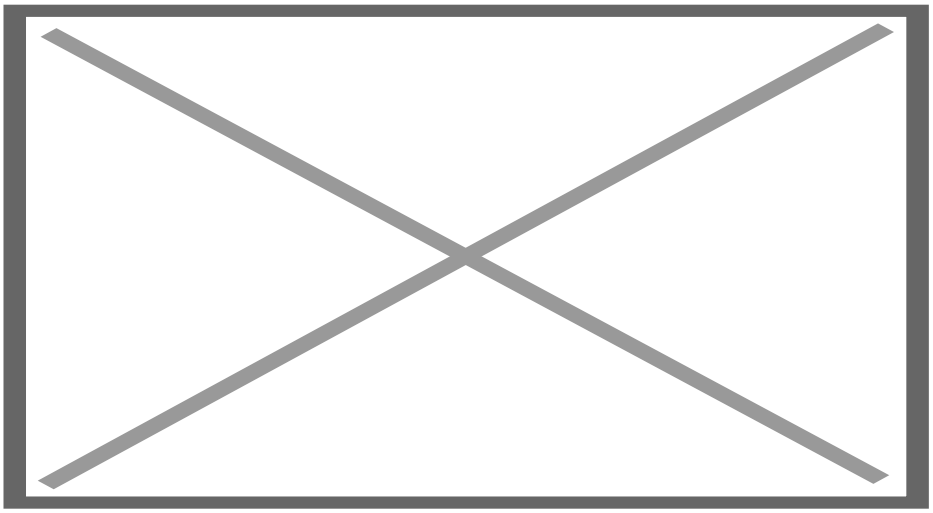
2- Axis 1 + Axis 3

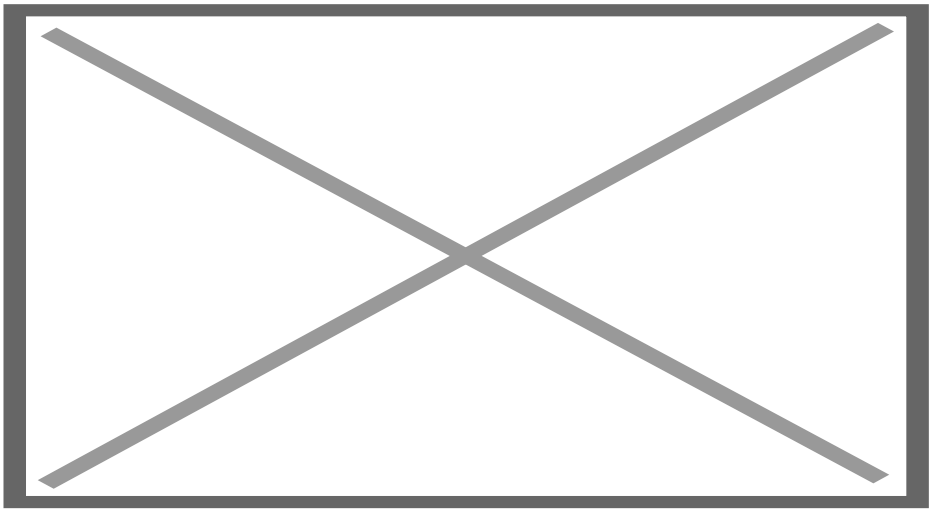
3- Axis 2 + Axis 3

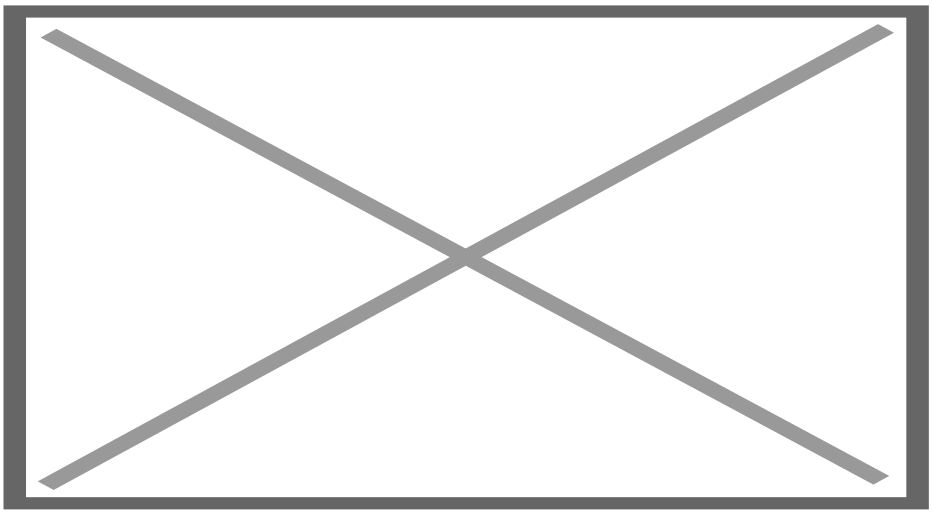
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

The M1 D2HP will allow the development of the following skills:

- Understand the continuum from the discovery of a health product to the development of a medicine

- Identify the current challenges of major pathologies, the underlying molecular mechanisms and dysregulations of physiological functions in a logic of targeting and molecular drugability

- Know the methodologies and existing models for screening therapeutic targets, synthesis, formulation and production of health products

- Know the analytical control and biological tests used for drug production

- Know the principles of scientific ethics

- Analyze and present the results of a scientific publication

- Develop one’s critical thinking

- Use advanced and specialized digital tools

- Adapt communication for research, knowledge transfer or scientific popularization

- Work as a team

- Acquire project management skills

- Being able through their knowledge (hard and soft skills) to integrate into a team of collaborators in the public or private environment

Objectives

The objective of this multidisciplinary master D2HP is to train future managers in the pharmaceutical field with a versatile, scientific and technical expertise, and an opening-up to socio-economic world and/or research laboratories. The master provides advanced knowledge on the main pathologies and their underlying mechanisms in order to improve strategies to implement diagnosis, innovative treatment and prevention.

The M1 D2HP provides extensive training in the field of pharmaceutical sciences with a specialization in drug and health product development. It covers the basic and up to date knowledge on:

1- Current diseases and the dysregulations of major physiological functions, the associated fine mechanisms as well as the main associated systemic consequences

2- The biotechnological, formulation and medicinal chemistry tools

3- Pharmaco-toxicological and analytical methods with an extension to environmental impacts in order to implement diagnosis, treatment and prevention in a virtuous logic of sustainability and reduction of the impact on the environment

Débouchés

Career prospects

After a Master's + PhD: researcher or lecturer

After a Master's or Master's + PhD: engineer (Research & Development, control, production, etc.)
R&D Engineer

Further Study Opportunities

Master of Pharmaceutical and Health Products Sciences

Calendar

Start of programme (indicative date)
21/09/2026
Admission

Capacity

Available Places

25

Target Audience and Entry Requirements

Admission in M1 D2HP is possible for:

- students having validated a Bachelor of Sciences in Global Health (Pharmacy, Biology, Chemistry, Biotechnology or Biochemistry)

- PharmD, MD

- Engineers in the field of Health

- People in continuous training in the field of Health. The file will be evaluated on a case-by-case basis according to the professional project and career plan.

after validation of the specific knowledge prerequisites by the M1 co-heads

and after proof of English proficiency: TOEFL, IELTS, Cambridge certifications or equivalent

Période(s) de candidature

Inception Platform

From 21/01/2026 to 10/04/2026

Supporting documents

Compulsory supporting documents

Copy diplomas.

Copy of the last diploma.

Copy of passport.

Copy of identity document.

Motivation letter.

Letter of recommendation or internship evaluation.

Document at your convenience.

Indicate sources of funding envisaged (own funding, funds from the country of origin, Campus France or Paris-Saclay Scholarship, etc.)

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

Certificate of English level.

Curriculum Vitae.

Cambridge English certificate ou equivalent.

If courses in previous grade were all in English, upload a certificate from the University. No other certificate of English level is required.

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

Recommendation letters.

Additional supporting documents

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

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
RU 01 Symposium : communication science across levels	1	Semestre 2		22				
Charger le détail								
TU 00 Immersive cultural and scientific exchanges	1	Semestre 1	10	32				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practic class
TU 02 Infectiology	5	Semestre 2	27	6				
Charger le détail								
TU 03 Physiopathology of major functions : a cornerstone to drug discovery	4	Semestre 1	22	2				
Charger le détail								
TU 05 Cancer Cell Biology	3	Semestre 1	13.5	8.5				
Charger le détail								
TU 04 Hemato- and immunopathology	4	Semestre 1	24					
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	
TU 06 Pharmaceutical engineering I	5	Semestre 1	15						
Charger le détail									
TU 07 The Medicinal Chemist's Toolbox I	5	Semestre 2	28	4					
Charger le détail									
TU 08 Biotechnology I	5	Semestre 1	25	5					
Charger le détail									

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	di study
TU 01 Introduction to research and entrepreneurship	3	Semestre 2	12	33	6			
Charger le détail								
TU 09 Analytical sciences I	4	Semestre 1	19	8				
Charger le détail								
TU 10 Environment - pharmaceuticals and sustainable development	3	Semestre 1	13	11.5				
Charger le détail								
TU 11 Pharmacology/Toxicology I	5	Semestre 2	12	12				
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
OTU 01 Diagnosis of infectious diseases	2	Semestre 2	2	6	12			
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
OTU 02 French as foreign langage	2	Semestre 2						
Charger le détail								
OTU 03 Gene cloning	2	Semestre 1		2	20			
Charger le détail								
OTU 05 Pharmaceutical engineering	2	Semestre 1	3	3	12			
Charger le détail								
OTU 11 Vaccinology	2	Semestre 1						
Charger le détail								
OTU 15 Nanomedicine	2	Semestre 1						
Charger le détail								
Free teaching Unit X	2	Annualized						
Charger le détail								

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
ORU 01 Bibliographical work	8	Semestre 2	0					
Charger le détail								
ORU 02 Internship	8	Semestre 2						
Charger le détail								

Teaching Location(s)

ORSAY
GIF SUR YVETTE

Contact

- **Secrétariat Pédagogique**

  Manager Web

http://www.universite-paris-saclay.fr/formation/master/sciences-du-medicament-et-des-produits-de-sante/m1-development-drugs-and-health-products