

## Master 1

# Development of Drugs and Health Products

+ Initial training

**université**  
**PARIS-SACLAY**

## GRADUATE SCHOOL

Health and  
Drug Sciences

## Prerequisites & Public

- + Bachelor of Sciences in Pharmacy, Biology, Chemistry or Biotechnology
  - + PharmD, MD, continuing education
  - English proficiency:** TOEFL, IELTS, Cambridge English Certificate or equivalent
  - + International students
  - + French students
- Selection by admission jury

## Application process

Application online at:

[www.universite-paris-saclay.fr/formation/master](http://www.universite-paris-saclay.fr/formation/master)

- + Select Graduate School: « Health and Drug Sciences »
- + Master: « Health and Drug Sciences »
- + Master 1: « Development of Drug and Health Products (D<sup>2</sup>HP) »

**APPLICATION DEADLINE : MAY 1<sup>st</sup> 2022**

## Objectives

The M1 is intended to provide students with basic and advanced knowledge on:

- 1- The current major pathologies
- 2- The biotechnological, formulation and medicinal chemistry tools
- 3- The pharmaco-toxicological and analytical methods with extension to environmental impacts in order to implement diagnosis, treatment and prevention

## Course objectives

Training of future managers in the pharmaceutical field with a versatile, scientific and technical expertise, and an opening-up to business life or research laboratories.

The programme includes courses into 3 axes:

- 1- Basic and advanced knowledge of the current diseases and the dysregulation of major functions
- 2- Pharmacist's toolbox: chemistry, biotechnology, formulation, production
- 3- Transversal methods: pharmaco-toxicological, analytical sciences

## Professional skills

- + Scientific knowledge to understand the continuum from the discovery of a health product to a medicine
- + Identification of the current issues in the major pathologies
- + Knowledge of methodologies for the screening of therapeutic targets, the synthesis, formulation and production of health products, and the associated analytical control and biological tests
- + Project management
- + Oral and written communication

## Organization

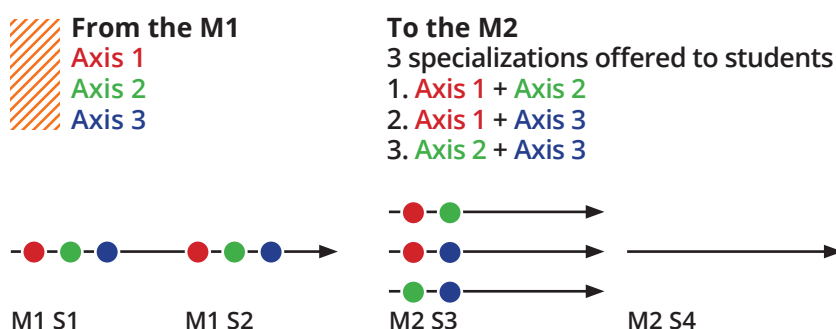
The M1 is composed of core and optional courses, a research specialization course and a symposium.

The program is split into 3 axes:

- **Axis 1:** Current issues in the major pathologies
- **Axis 2:** Pharmacy and biotechnology
- **Axis 3:** Transversal pharmaceutical disciplines

PROGRAM	ECTS
<b>Core courses M1S1</b> <ul style="list-style-type: none"> <li>• 001 Cohesion week</li> <li>• 101 Physiopathology of major functions</li> <li>• 102 Immunopathology and haemostasis dysregulations</li> <li>• 103 Cancer cell biology</li> <li>• 201 Pharmaceutical engineering 1</li> <li>• 202 Biotechnology 1</li> <li>• 300 Rush: Pharmaceutical business game</li> <li>• 301 Analytical sciences 1</li> </ul>	26
<b>2 optional courses M1S1</b> <ul style="list-style-type: none"> <li>• 201b Pharmaceutical Engineering PW</li> <li>• 202a Biotechnology PW1: Bioreactors</li> <li>• 320 Hospital internship</li> <li>• 321 Marketing 1</li> </ul>	4
<b>Core courses M1S2</b> <ul style="list-style-type: none"> <li>• 104 Infectiology</li> <li>• 203 The medicinal chemist's toolbox 1</li> <li>• 302 Environment 1</li> <li>• 303 Pharmacology 1 / Toxicology 1</li> </ul>	18
<b>Research specialization course 1, M1S2</b> <ul style="list-style-type: none"> <li>• 002a Bibliographic work</li> <li>• 002b Lab internship</li> <li>• 323 Scientific English: oral and written communication</li> </ul>	8
<b>Core courses M1S2</b> <ul style="list-style-type: none"> <li>• 104a Diagnosis of infectious diseases</li> <li>• 202b Biotechnology PW2: Gene cloning</li> <li>• 203a Basic structural elucidation applied to natural and synthetic compounds</li> </ul>	2
<b>Research specialization course 2, M1S2</b> + 003 Symposium	2

## Toward the Master 2 D<sup>2</sup>HP



## Informations

### Heads

Dr. Dorine BONTE

Prof. Imad KANSAU

Dr. Éric MOREL

Prof. Véronique ROSILIO

m1-d2hp.gs-heads@universite-paris-saclay.fr

### Secretary

Emeline PHILIPPE - emeline.philippe@universite-paris-saclay.fr

+33 (0)1 46 83 59 64

### Main teaching location

Faculté de Pharmacie - Université Paris-Saclay - Orsay, France

### More information:

<http://www.master-d2hp.universite-paris-saclay.fr/>