#### Master 1

# Development of Drugs and Health Products

+ Initial training



#### **GRADUATE SCHOOL**

# **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/en/education/master

- + Select « Pharmaceutical sciences »
- + Master's path: « Development of Drug and Health Products (D<sup>2</sup>HP) »

**APPLICATION DEADLINE: MAY 1st 2023** 

### **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

#### **Assessment method**

The assessment method, depending on the teaching units, will rely on written final exams, oral final exams or continuous evaluation.

Success rate: 100% (promotion 2020-2021)

# **Organization**

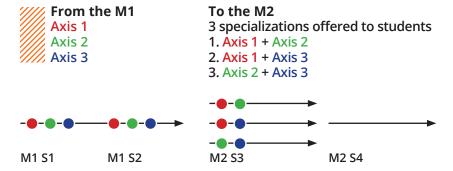
The M1 is composed of core and optional courses, a research specialization course and a symposium.

The program is split into 3 axes:

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

PROGRAM	<b>ECTS</b>
Core courses M1S1  • 001 Cultural week  • 101 Physiopathology of major functions  • 102 Immunopathology and haemostasis dysregulations  • 103 Cancer cell biology  • 201 Pharmaceutical engineering 1  • 202 Biotechnology 1  • 300 Rush: Pharmaceutical business game  • 301 Analytical sciences 1	26
<ul> <li>2 optional courses M1S1</li> <li>201b Pharmaceutical Engineering PW</li> <li>202a Biotechnology PW1: Gene cloning</li> <li>320 Hospital internship</li> <li>321 Marketing 1</li> </ul>	4
Core courses M1S2  • 104 Infectiology  • 203 The medicinal chemist's toolbox 1  • 302 Environment 1  • 303 Pharmacology 1 / Toxicology 1	18
Research specialization course 1, M1S2  • 002a Bibliographic work  • 002b Lab internship  • 323 Scientific English: oral and written communication	8
<ul> <li>Core courses M1S2</li> <li>104a Diagnosis of infectious diseases</li> <li>202b Biotechnology PW2: Bioreactors</li> <li>203a Basic structural elucidation applied to natural and synthetic compounds</li> </ul>	2
Research specialization course 2, M1S2 + 003 Symposium	2

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





**GRADUATE SCHOOL** 

Health and Drug Sciences

**Start date: October** 

**Duration: 2-year program** 

#### **Informations**

Heads

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Secretary

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Main teaching location

Faculté de Pharmacie - Université Paris-Saclay - Orsay, France (91400)

More information:

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

	EU Student	Non EU Student	Student holder of a UPSaclay bachelor
Student fees	4 243 €	6 243 €	243 €
CVEC *	95 €	95 €	95 €
Total **	4 338 €	6 338 €	338 €

#### Reduced tuition fees (fee waivers):

- Non-EU students with scholarship (BGF Campus France, Eiffel): 4000€
- · Students with CROUS grant: 0€, full waiving
- \* compulsory fees to contribute to student life and campuses
- \*\* amount for 1 year.

