

# MASTER SCIENCES DU MÉDICAMENT ET DES PRODUITS DE SANTÉ - SMPS

## *Parcours*

ADVANCED BIOMEDICINE AND CELL THERAPY - ABCT

120 ECTS

2 ANS



### UFR3S

UFR3S – Département de  
Pharmacie

Lieu d'enseignements :  
Lille (campus Santé)

### Responsables pédagogiques du parcours :

Christophe CARNOY  
christophe.carnoy@univ-lille.fr

Nicolas SIMON  
nicolas.simon@univ-lille.fr

### Contact administratif

Tél. 03 20 96 40 40  
pharma-scolarité@univ-lille.fr

### Organisation du parcours

2 ans organisés en 4 semestres en  
M1 & M2

### Régimes d'étude

Formation Initiale  
Formation Continue

### Langue d'enseignement

Anglais

### Stages et alternance

5 à 6 mois

## PRESENTATION OF THE TRAINING COURSE

### PRESENTATION OF THE SMPS MASTER'S PROGRAMME

The SMPS Master's programme aims to bring together specialised higher education courses on medicines, biotherapies and medical devices, particularly digital devices, in a set of multidisciplinary and coherent courses.

The SMPS Master's programme is organised over two years, providing a solid foundation in pharmaceutical sciences and related techniques in the first year (M1) and specialised courses organised into seven pathways in the second year (M2), as shown in the diagram opposite.

### ABCT COURSE OVERVIEW

Advanced Biomedicines and Cell Therapies master's program is organized in two years:

- year 1 (M1) "from bench" focuses on biological drugs, their mechanism of action, production, exploratory methods, and control stages. The objective is to provide the fundamental scientific and technical basis necessary for understanding biology-based therapies
- year 2 (M2) "to bedside" places biologically derived medicines in the context of their clinical use. The objective is for students to understand the use of these biological drugs in human medicine and the challenges that remain in patient care.

## THE ADVANTAGES OF THE TRAINING COURSE

The two-year ABCT master is an international program (all courses will be taught in English) developed in collaboration with Ramon LLULL University in Barcelona. This unique program offers specialization in therapies based on biological drugs, with a particular focus on the clinical use of these innovative molecules and their positioning in clinical practice. Finally, the two-year ABCT master's degree gives students an international dimension to their future career path.

# MASTER SMPS - ADVANCED BIOMEDICINE AND CELL THERAPY – ABCT

## ORGANISATION DE LA FORMATION DU MASTER

1<sup>ère</sup> année Master Sciences du médicament et des produits de santé – Tronc commun



## GENERAL SKILLS

The objective of this master's degree is to provide the fundamental knowledge and skills required to properly understand the various applications and issues related to biomedicines, cell and gene therapies. The aim is to provide students with high-quality multidisciplinary training (biochemistry, molecular biology, bioinformatic, cell biology, immunology...) enabling them to acquire the skills, competency and expertise in the field of biological drugs and cellular therapies. This international course offers a solid training for future professionals in academic, clinical and industrial research.

The competencies developed during the two-year ABCT master's program are as follows:

- Design a biomedicine and validate its use in clinical practice
- Design a tissue, cell or gene therapy medicinal product and validate its use in clinical practice
- Understand and analyze the role of microbiota in therapeutics
- Evaluate and optimize the performance of a biomedicinal product and an ATMP
- Promote a scientific project and communicate its results

knowledge in the field of biomedicine and cell therapy. Overall, various professions can be targeted with the ABCT master's degree, such as:

- Research and development executives
- Specialists in quality assurance and related fields
- Researcher or research professor

Several sectors of activities can be targeted:

- Biopharmaceutical industries involved in production of therapies derived from biology
- Both national and international regulatory authorities (ANSM, HAS, EMA, WHO...)
- Research laboratories (academic and industrial)
- Hospitals

## AND AFTER

Entering professional life is the natural outcome of this program. However, our graduates will have acquired skills that are useful for pursuing higher education, for example in a PhD program, thereby deepening their

## MODALITÉS D'ACCÈS

### MASTER 1

> Procédure et calendrier national de recrutement via [www.monmaster.gouv.fr](http://www.monmaster.gouv.fr)

Pour les personnes de nationalité étrangère (hors UE et assimilés) > RDV sur <https://international.univ-lille.fr/>

### MASTER 2

Déposez votre candidature sur la plateforme ecandidat de l'université de Lille

> RDV sur [ecandidat.univ-lille.fr](http://ecandidat.univ-lille.fr)

Retrouvez les informations sur toutes les conditions d'accès au M1 et M2 sur

<https://formation.univ-lille.fr/fr/index.html>