Université Paris-Saclay
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M2 Tissue, Cell, and Gene Biotherapies (BTCG)

Master's degree
Specialisation Biologie moléculaire et cellulaire
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English

The aim of the master 2 in Biotherapy Tissular Cellular and Genic (BTCG) is to provide students from different initial training with solid foundations in fundamental research but also to offer varied openings to the professional world of Health. This master offers through two specialties (research or professional) skills applicable to the field of biotherapies, which covers gene therapies, cell therapies, immunotherapy and innovative pharmacotherapies.

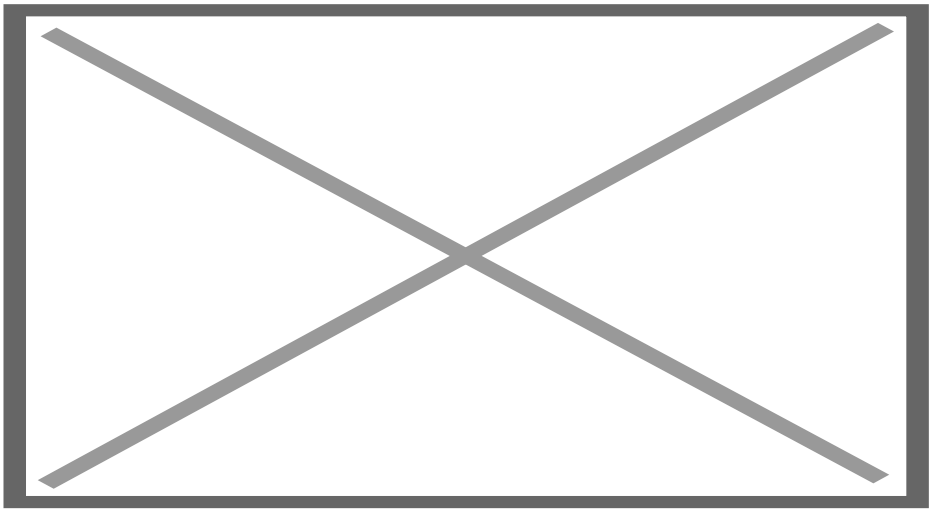
Semester 1

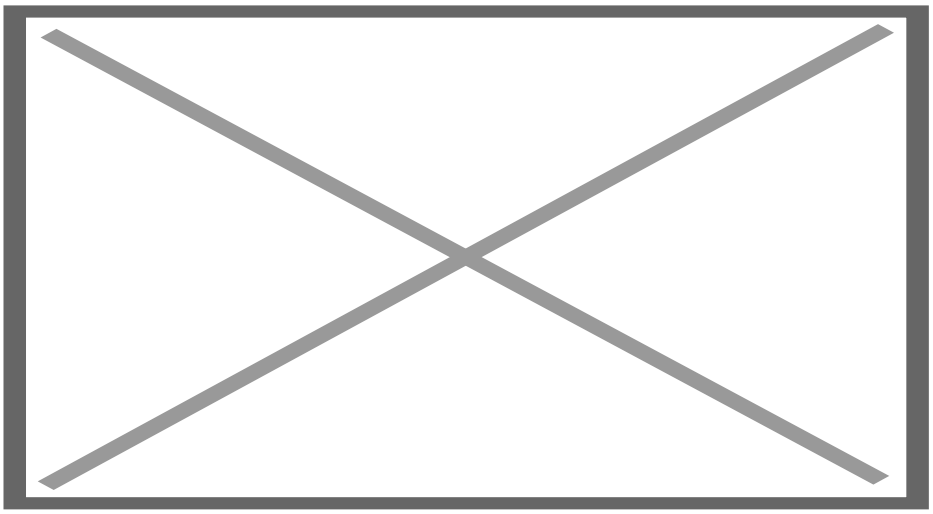
Students choose between two specialties: research or professional. The common basis has 10 European credits (ECTS) and each subspeciality 20 ECTS. Lectures are in English except Industry and corporate life and Clinical research in biotherapies in French.

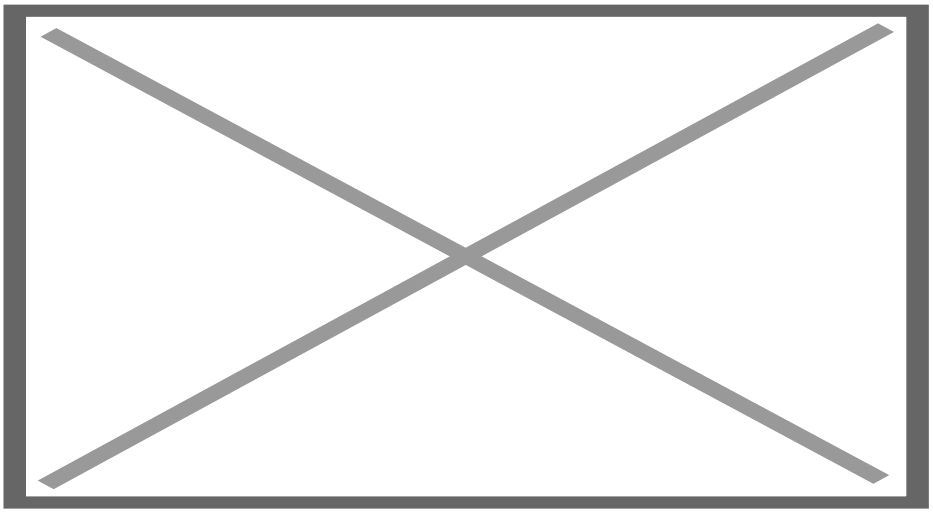
Semester 2

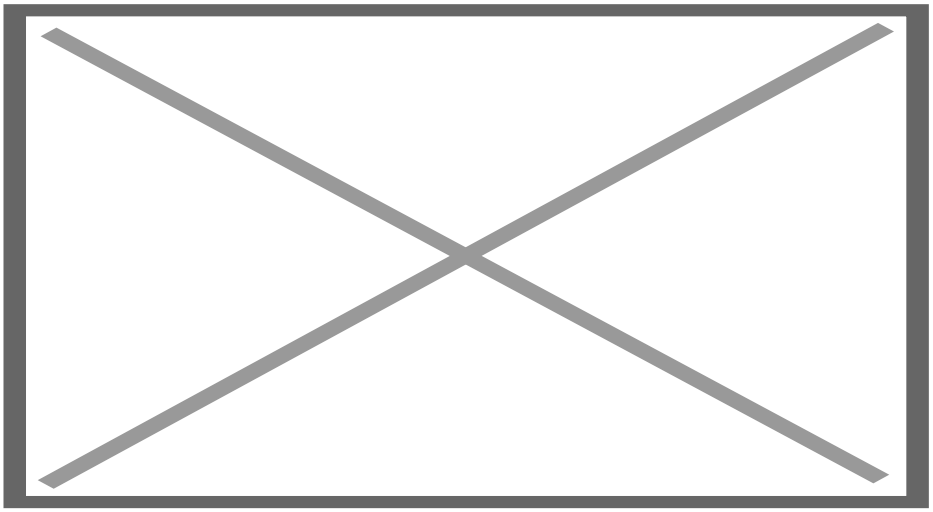
•A 6–months training takes place in academic laboratories or biotechnology, pharmarceutical companies located on site or abroad, in Europe, North America, .. It gives right to 30 ECTS

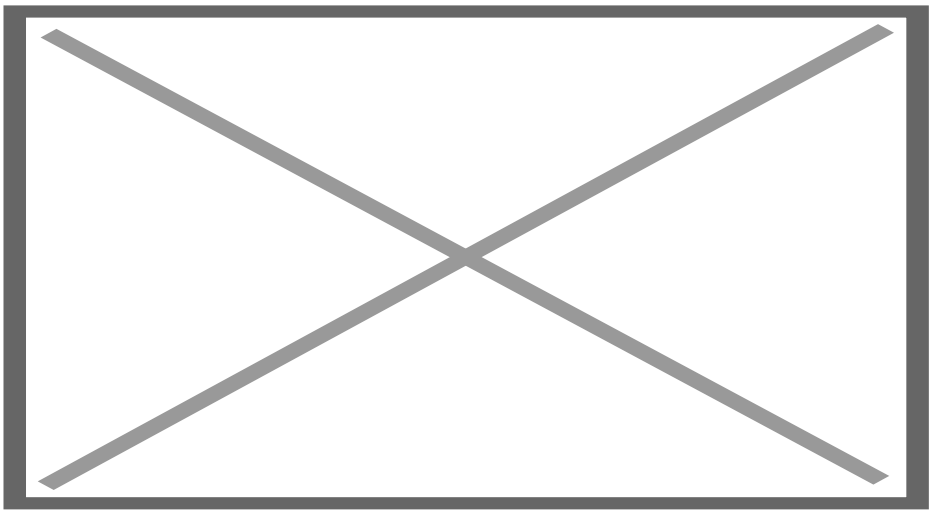
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

•Analysis and criticism of scientific results, comparison with the literature, summary presentation of results

•Analysis of the potential impact of scientific results in terms of development and application

•Acquisition and knowledge of the methodology and evaluation of practices in the field

•Implementation of collaborative strategies for the development of translational research

• Industrial design of biotherapy products (validation, production and scale-up, preparation of clinical trials), and monitoring of regulatory affairs in industry and regulatory agencies.

Objectives

The aim of the master 2 in Biotherapy Tissular Cellular and Genic (BTCG) is to provide students from different initial training with solid foundations in fundamental research but also to offer varied openings to the professional world of Health. This master offers through two specialties (research or professional) skills applicable to the field of biotherapies, which covers gene therapies, cell therapies, immunotherapy and innovative pharmacotherapies

Débouchés

Career prospects

After a Master's or Master's + PhD: engineer (R&D, control, production, etc.)
R&D Project Manager
Academic staff
Research & Development Engineer
Research and Innovation Manager
Project Manager
Research professions
Lecturer (after a PhD)
Scientific / public health project manager
Design engineer

Further Study Opportunities

PhD
Engineering, research and development
PhD bio

Calendar

Start of programme (indicative date)
02/10/2025
End of programme (indicative date)

17/07/2026
Admission

Admission Route

Life Sciences
Health sciences
Engineering Sciences

Capacity

Available Places

15

Target Audience and Entry Requirements

Master 1 level or equivalent with basics in cellular and molecular biology

Période(s) de candidature

Inception Platform

From 01/04/2026 to 27/06/2026

Supporting documents

Compulsory supporting documents

Motivation letter.

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

Curriculum Vitae.

Document indicating the list of local M2 choices available here : https://urlz.fr/i3Lo.

Additional supporting documents

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

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.

M2 BTCG - track choice

Programme

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practica class
Elective courses								
UE6: Clinical Research in Biotherapies Charger le détail	4	Annualized						
UE5: High Throughput Analysis and Gene Editing Charger le détail	4	Annualized						
Core								
UE3: Immunotherapy Charger le détail	4	Annualisé						
UE8: Scientific Watch and Communication Research Charger le détail	10	Annualized						
UE7: Presentation of Training Project Charger le détail	2	Annualized						

| Subjects | ECTS | Semester | Lecture | directed study | practical class | Lecture/directed study | Lecture/practical class | directed study/practica class |

UE9: Scientific Watch and Communication Professionnal (SWCP)	7	Annualized

Charger le détail

UE4: Industry and Corporate Life (ICL) in French	9	Annualized

Charger le détail

UE6: Clinical Research in Biotherapies (CRB)	4	Annualized

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	d l
Fundamental basics of Biotherapy (FBB)	5	Annualized							

Charger le détail

UE2: Biotherapy Scopes (BS)	5	Annualisé

Charger le détail

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class	dis lea co
UE10: Insternship	30	Annualized							

Charger le détail

Teaching Location(s)

CRETEIL
EVRY
BOBIGNY

Contact

- **Christine Baldeschi**

http://www.universite-paris-saclay.fr/formation/master/biologie-moleculaire-et-cellulaire/m2-tissue-cell-and-gene-biotherapies-btcg