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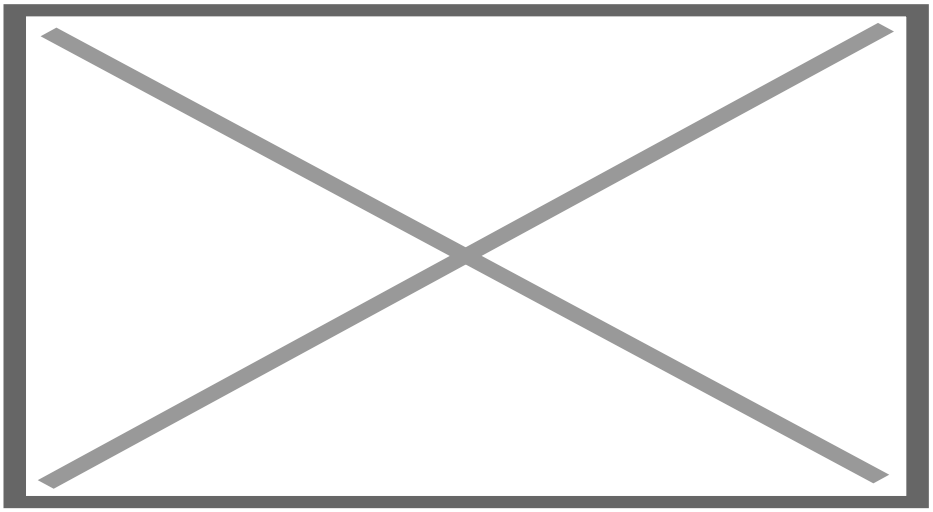
M1 Cancer Biology - Orsay campus

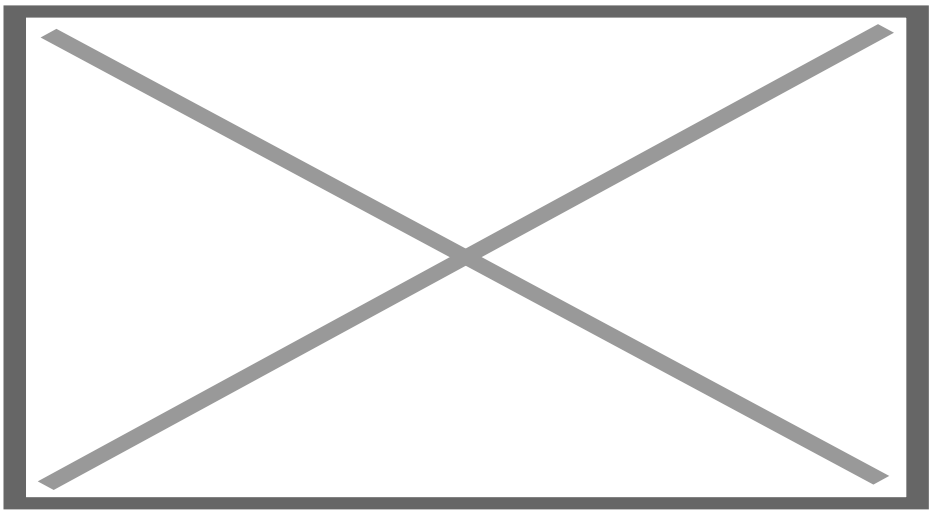
Master's degree
Specialisation Biologie moléculaire et cellulaire
Enrolment type
Formation initiale
Formation continue
Language(s) of instruction
English
French

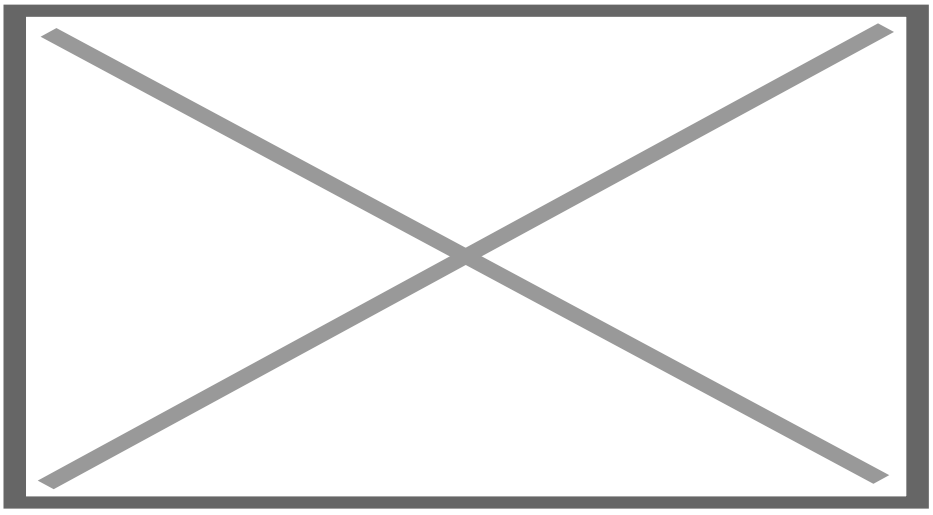
Delve into the heart of cancer research with the *Cancer Biology* course in the Master's in Molecular and Cellular Biology at Université Paris-Saclay. This course offers immersion in the mechanisms of tumour transformation, from the onset of cancers to innovative therapeutic approaches. Under the guidance of renowned lecturers and experts, you will discover the major advances in modern oncology and its clinical applications.

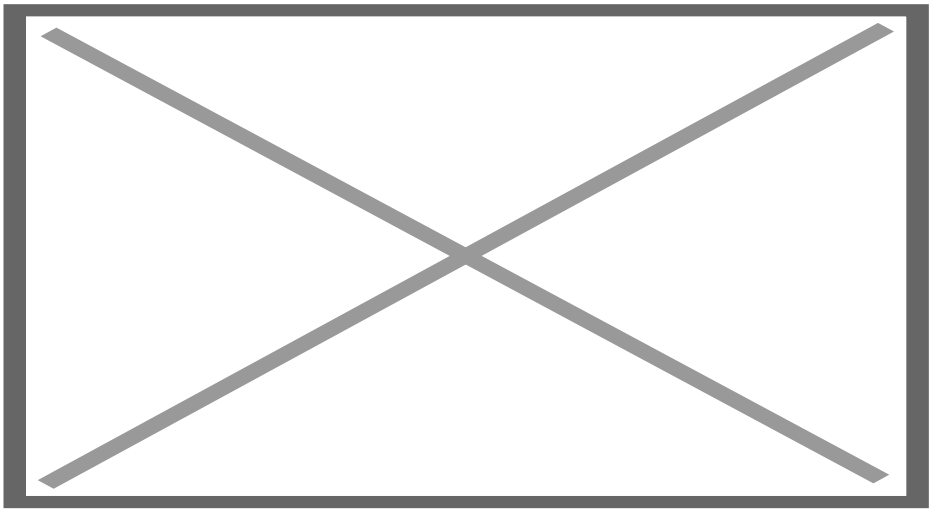
The **1st year Master's BMC Cancer Biology** is organised around four blocks of knowledge and competencies: **Methods and Fundamentals for the Study of Living Organisms** (12.5 ECTS) A springboard to an integral understanding of the life sciences! Strengthen key disciplines (scientific English, cellular and molecular biology, biochemistry, cell signalling and genomics) whilst developing the methodological competencies essential for analysing biological systems. **Major in Cancer Biology** (25 ECTS) Give your 1st year Master's a specific focus by freely choosing from the many modules offered as part of your core programme. **Minor** (10 ECTS) Broaden your scientific knowledge to develop a cross-disciplinary perspective. **Research Immersion (12.5 ECTS)** Immerse yourself in the heart of research: Draft a bibliographic dissertation and complete an 8-week laboratory internship. For the more inquisitive, combine the core TUs of two Majors to develop a double course.

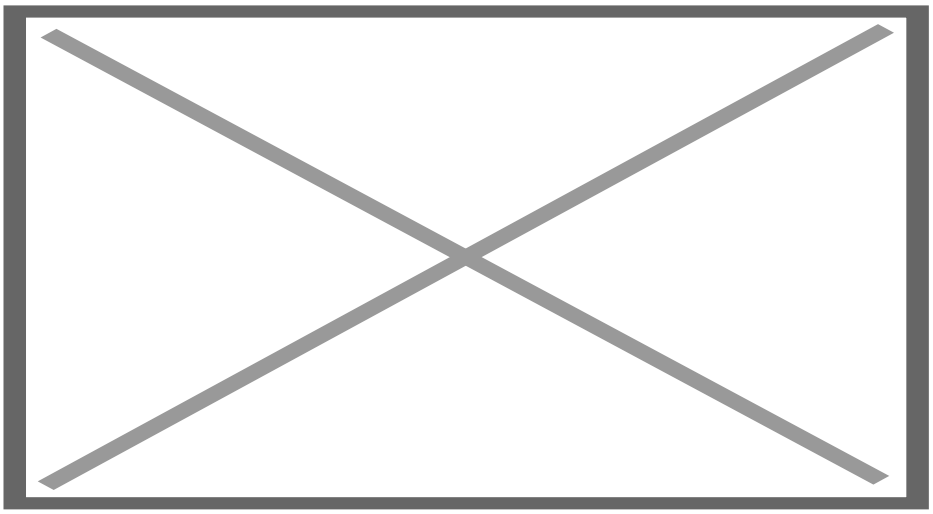
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Information

- Overview
- Application requirements
- Schedule

Présentation

Skills

Competency 1: Scientific approach C1. Take a scientific approach, develop innovative ideas and produce new knowledge. Competency 2: Expertise, critical thinking and self-training C2. Acquire highly specialised disciplinary knowledge and methodologies in one field and at the interface of several fields of work (complex interdisciplinarity) Competency 3: Scientific communication C3.3: Extract and scrutinise relevant information from scientific documents or lectures in English. Competency 4: Professional soft skills C4. Analyse and adapt actions to a professional context

Objectives

Le parcours *Biologie des cancers* du Master Biologie Moléculaire et Cellulaire propose une formation par et à la recherche. Vous y consoliderez vos bases disciplinaires, vous apprendrez à analyser la littérature scientifique, à mener des projets et travailler sur des problématiques concrètes, tout en ayant la liberté de personnaliser votre parcours selon vos envies et vos ambitions. *Construisez dès maintenant votre parcours à l'aide de l'**outil en ligne :** [https://master-biologie-sante.eu/parcours/index.php]**.***

En particulier, la majeure *Biologie des cancers* vous offrira une formation approfondie, à l'interface entre biologie fondamentale, recherche translationnelle et applications cliniques. Elle vous permettra de comprendre les mécanismes moléculaires et cellulaires de l'oncogenèse tout en ouvrant la voie vers les innovations thérapeutiques les plus récentes.

Les objectifs de ce parcours sont triples :

1. Acquérir des connaissances solides sur les bases fondamentales de l'oncogenèse, du niveau moléculaire à l'organisme entier.
2. Développer une vision intégrée de la recherche en cancérologie, grâce à l'articulation entre approches fondamentales, translationnelles et cliniques.
3. Former des étudiants capables de relier la biologie du cancer aux grandes thématiques actuelles (immunothérapie, biothérapies, ingénierie cellulaire, médecine de précision) et de s'initier aux approches innovantes dans ce domaine.

Vous choisirez parmi un large ensemble d'Unités d'Enseignement qui vous permettront d'explorer la biologie des cancers sous de multiples angles, en reliant compréhension mécanistique et implications thérapeutiques. Cette flexibilité vous permet de composer un parcours sur mesure et de commencer à développer une expertise ciblée dans les domaines qui vous passionnent et dans lesquels vous envisagez une poursuite en M2.

Débouchés

Career prospects

Research & Development Engineer
Research and Innovation Manager
Research or Design Engineer
Research professions

Further Study Opportunities

M2 Gene, Cell, Development and Diseases

M2 Genetics, Genomics, Epigenetics and Evolution
M2 Human Genomics In Biotherapy, Health and Disease
2nd year Master's Study coordinators in the healthcare field

Admission

Admission Route

Life Sciences
Life and Earth Sciences

Capacity

Available Places

10

Target Audience and Entry Requirements

Hold a National undergraduate degree in Life Sciences or Life and Earth Sciences, obtained before September 1st of the academic year for which you are applying. Have a solid foundation in the fundamentals of biology: Molecular biology, cell biology, biochemistry, genetics. Must have validated TUs in the 2nd/3rd year undergraduate degree in line with the themes of the relevant course. For international French-speaking students: Have a diploma equivalent to an undergraduate degree in Life Sciences, guaranteeing the same prerequisites, obtained before 1st September of the academic year for which you are applying. If your full-time academic programme is highly specialised, we recommend that you first apply for a 3rd year undergraduate degree in Life Sciences (National diploma). Required level of French: C1 (certification). For English-speaking international students: You may apply to the International track in France if you graduated with a Bachelor degree, major in Biology, or if you will graduate before Sept 1st of the academic year for which you apply.

Période(s) de candidature

Inception Platform

From 15/01/2026 to 16/03/2026

MonMaster Platform

From February 17th to March 16th, 2026

To find out which platform you should apply through, please see the Masters' applications and enrolment page.

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.

Additional supporting documents

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

Cette fiche n'est pas demandée si vous êtes ou serez diplomé·e d'une Licence ou d'un Bachelor obtenu en France ou à l'international.
Programme

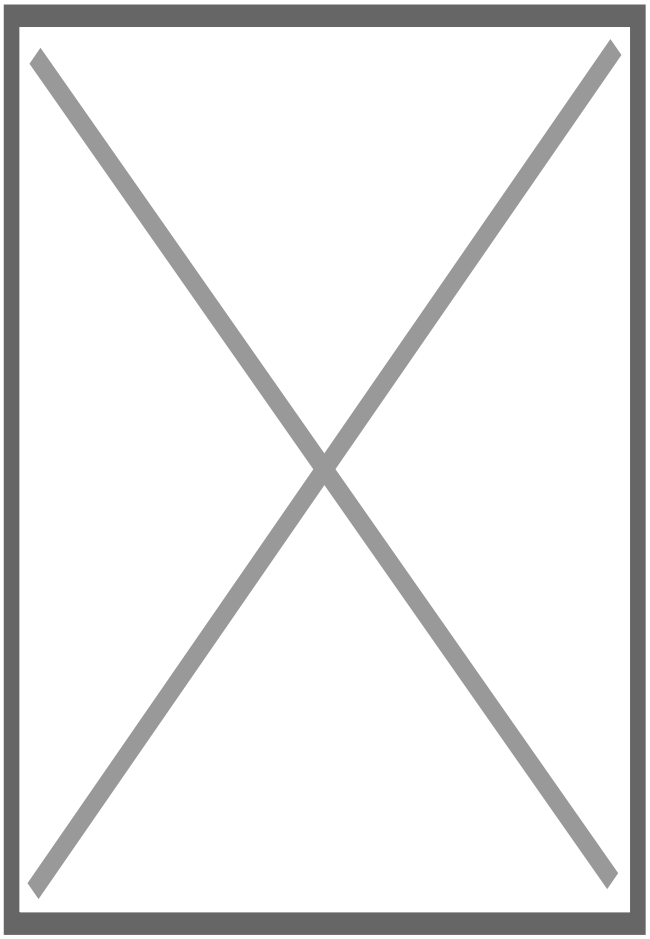
Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Formation Préparatoire	0	2	22,5	7,5				
Méthodes et Fondamentaux pour l'Exploration du Vivant	0	2	22,5	7,5				
Immersion Recherche	0	3	22,5	7,5				
Majeure BDC	0	1	22,5	7,5				
Mineure (parcours BDC)	0	9	22,5	7,5				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Formation Préparatoire	0	2	22,5	7,5				
Méthodes et Fondamentaux pour l'Exploration du Vivant	0	2	22,5	7,5				
Immersion Recherche	0	3	22,5	7,5				
Majeure 1 (Double Majeure BDC)	0	1	22,5	7,5				

Subjects	ECTS	Semester	Lecture	directed study	practical class	Lecture/directed study	Lecture/practical class	directed study/practical class
Majeure 2 (Double Majeure BDC)	0	5	22,5	7,5				
Mineure (parcours BDC)	0	9	22,5	7,5				

Training campus

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Orsay Bures

Orsay / Bures-sur-Yvette
Bus 4607, 4626
RER B Orsay ville ou Bures-sur-Yvette
Voir
Library
Community center

Contact

- **Marie Regairaz**
- **Boris BARDOT**

  PR

http://www.universite-paris-saclay.fr/formation/master/biologie-moleculaire-et-cellulaire/m1-biologie-des-cancers-site-orsay