

Master Biologie

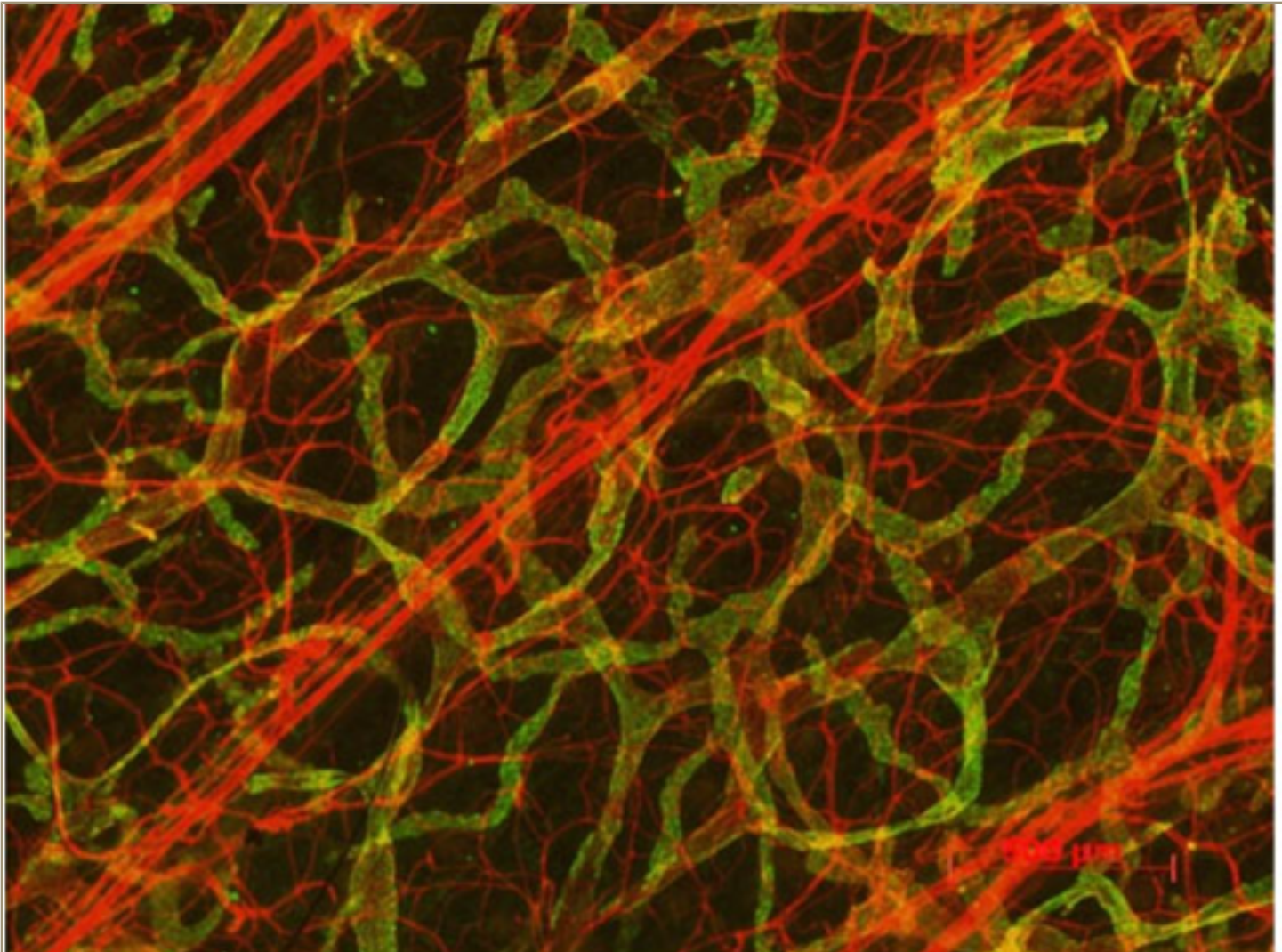
Physiology, Epigenetics, Differentiation and Cancer (PhEDC)

Présentation

After having completed the first year of the Master in Biology program at Université Grenoble Alpes ([M1 "Molecular and Cellular Biology" program](#)) or an equivalent 1st year program in another university, the students will have to apply for admission in 2nd year PhEDC program.

The first semester of the 1st year program is meant to complete the general scientific background of the enrolled students in various fields of Biology (Physiology, Cell Biology, Genetics, Biochemistry, ...) while the second semester introduces the students to their specific Master 2 program by offering them specialized courses and a 2-month internship in a laboratory.

The 2nd year PhEDC year is divided in two semesters. The PhEDC first semester includes 3 types of classes: i) classes aiming at providing general knowledge or skills that are necessary to researchers (handling of a research project, entrepreneurship, English), ii) specialized classes directly related to the topics of the M2 PhEDC program (Physiology, Epigenetics, Development, Differentiation, Cancer, ...) and iii) optional classes proposing an initiation to other fields of biological sciences (neurosciences, biostatistics, high throughput biology, ...). The PhEDC second semester is entirely constituted of a 6-month research internship in a laboratory.



The blood and lymphatic circulation networks in the mouse ear: a model for studying the development of blood vessels.

Laboratoire de Biologie du Cancer et de l'Infection, INSERM U1036, CEA Grenoble, Université Grenoble Alpes.

At the end of this year of master 2nd year program, the enrolled students should be able to master the theoretical knowledge and the technical expertise in the fields of Physiology, Epigenetics, Development, Differentiation and/or Cancer, be fluent in English (oral communication and writing skills for the preparation of research projects and scientific reports), have acquired an expertise in synthesizing bibliographic data, be able to autonomously propose a research project and develop it using the most advanced technological equipment.

Admission

Second year of the master's degree in Biology: to be eligible to apply, you should have completed (or you should be enrolled in) a first year of a Master's degree in Sciences *i.e.* you should have validated 60 ETCS of a master's degree in Sciences by the end of your current academic year.

Public continuing education : You are in charge of continuing education:

- if you resume your studies after 2 years of interruption of studies,
- or if you followed training under the continuous training regime one of the previous 2 years

- or if you are an employee, job seeker, self-employed.

If you do not have the diploma required to integrate the training, you can undertake a [validation of personal and professional achievements \(VAPP\)](#).

If you want to apply and register, you must know that the procedure is different depending on the diploma you are seeking, the diploma that you have obtained, or your country.

To know more, follow the [link](#)

2 application campaigns are organized for the 2nd year of the master in Biology:

Campaign 1 :

- On the application "e-candidat" for students having completed a M1 in France : **From March 4th to March 22nd, 2019**
- On the application "Portail des études en France" for students having completed a M1 in a foreign country : **From March 4th to March 22nd, 2019**

Campaign 2 :

- On the application "e-candidat" for students having completed a M1 in France : **From April 29th to May 17th, 2019**
- On the application "Portail des études en France" for students having completed a M1 in a foreign country : **From April 29th to May 17th, 2019**

Poursuite d'études

Graduating from a Master degree in "Physiology, Epigenetics, Differentiation, Cancer" (PhEDC) leads to a career as a research engineer in academic or private laboratories.

For the students interested in a career as a research scientist in academic institutions or in private pharmaceutical industries: consecutively to a Master degree in "Physiology, Epigenetics, Differentiation, Cancer" (PhEDC), the students may choose to continue with a PhD program offered by a French Doctoral School or foreign universities, and related to the aforementioned fields of Biology.

After the obtaining of their PhD, the young researchers usually undertake one or two post-doctoral trainings of 2-3 years each, in France or foreign countries, in order to diversify their expertise. They can then apply to permanent positions as:

- full time researchers at the national French organizations of research ("CNRS", "INSERM", "INRA", "IRD", etc);
- project managers in R&D laboratories from private biotech companies;
- researchers-teachers in French or foreign universities.

Infos pratiques :

- > **Composante** : UFR Chimie-Biologie
- > **Durée** : 1 an
- > **Type de formation** : Formation initiale / continue
- > **Lieu** : Grenoble - Domaine universitaire
- > **Contacts** :

Responsable(s) pédagogique(s)

Gilles Faury
gilles.faury@univ-grenoble-alpes.fr

Contact administratif

Service Formation Chimie-Biologie
ufrchimiebiologie-formation@univ-grenoble-alpes.fr

Programme

Master 2e année

Semestre 9

UE Research project	6 ECTS	38h
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Semestre 10

UE Communication in scientific english (part II)	3 ECTS	
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UE Business plan of your start-up (entrepreneurship and science)	3 ECTS	24h
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UE Laboratory internship PhEDD (part II)	24 ECTS	
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