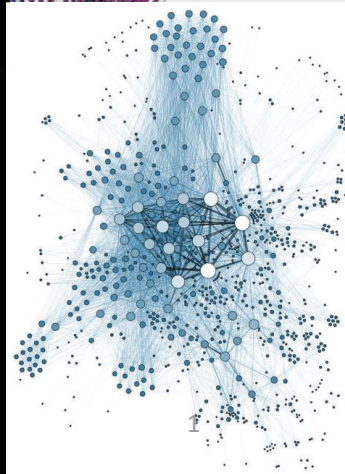
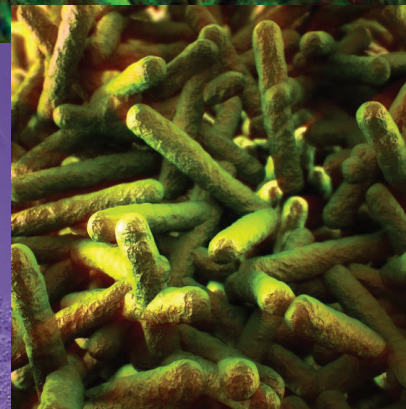
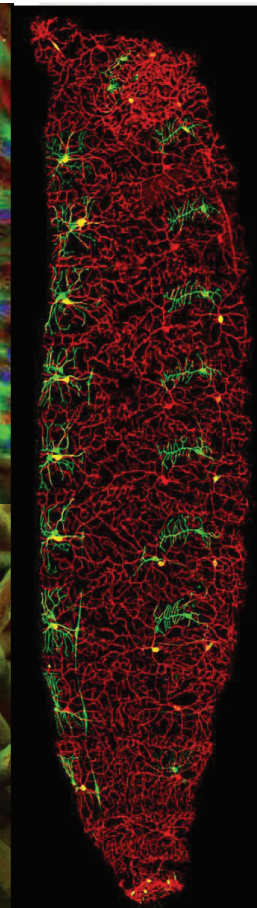
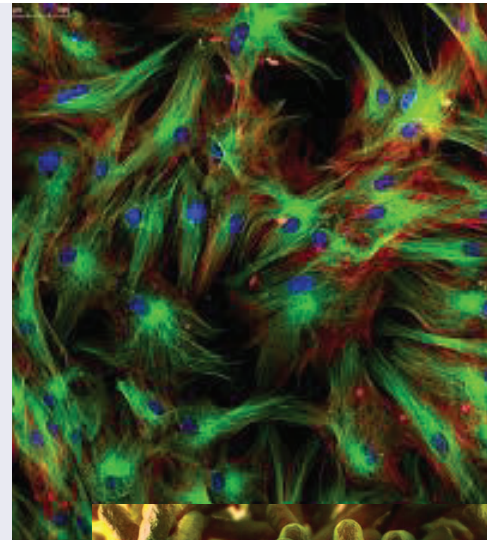
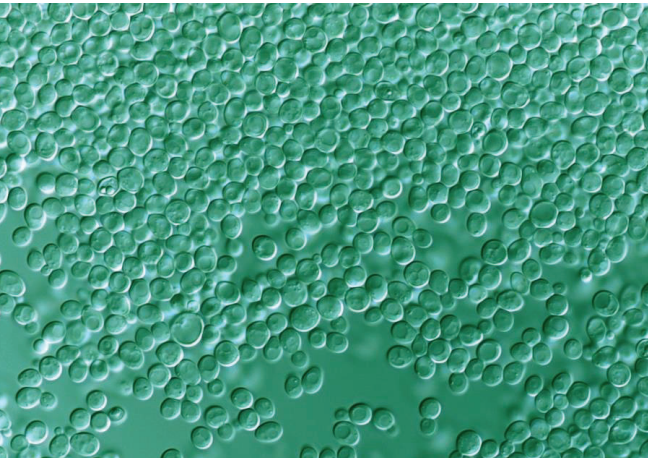
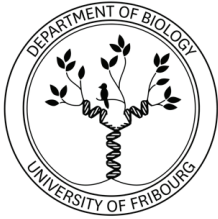


Welcome to the Master studies in Biology



Biology Master programs at UniFr

Research MSc in Molecular Life and Health Sciences, 120 ECTS

Master thesis 60 ECTS

Teaching MSc in Molecular Life and Health Sciences, 90 ECTS

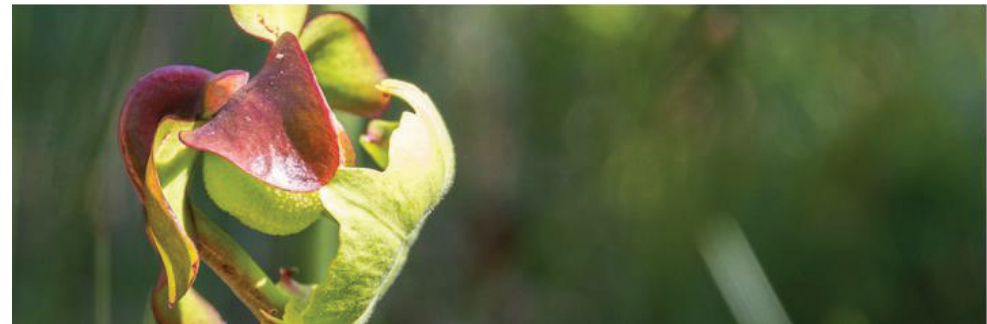
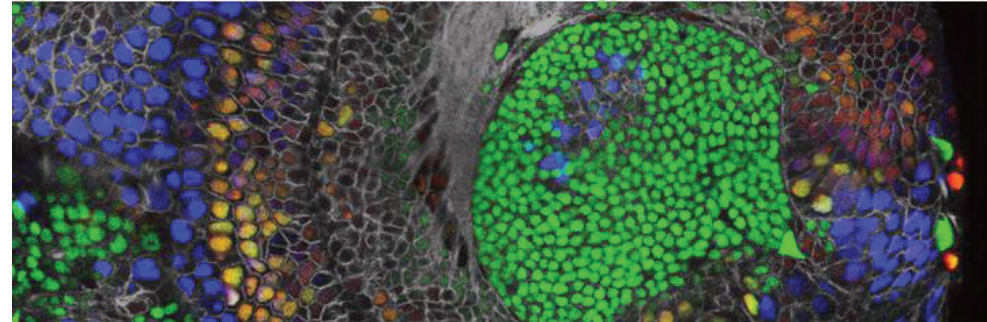
Master thesis 45 ECTS

Research MSc in Environmental Biology, 120 ECTS

Master thesis 60 ECTS

Teaching MSc in Environmental Biology, 90 ECTS

Master thesis 45 ECTS





Master in Molecular Life and Health Sciences

Molecular mechanisms govern the fate and the function of every cell, from archaea living in the remotest trench in the ocean, to the highly connected cells of our brain. Interestingly, cells of various origins share common genes, and therefore use similar proteins and molecular pathways. These can be explored in a variety of model organisms and cultured cells, which you will discover in this exciting Master programme that bridges fundamental molecular science and potential applications to understanding human health and disease.

The Department of Biology of the Faculty of Science and Medicine offers a multidisciplinary study programme leading to the degree of

Master of Science in Molecular Life and Health Sciences

with four research options.

The programme consists of **120 ECTS credits** and corresponds to **24 months of full-time study**.

Students aiming at becoming **high school teachers** and having to acquire 30 additional ECTS credits in a different study domain, can choose the **option "Teaching"** consisting of 90 ECTS (18 months).

Available options

1. [Developmental Biology and Regeneration](#) | 120 ECTS
2. [Neurobiology](#) | 120 ECTS
3. [Biochemistry and Cell Biology](#) | 120 ECTS
4. [Marine Biology](#) | 120 ECTS
5. [Teaching](#) | 90 ECTS

Study Plan

[↓ Study Plan of the Master in Molecular Life and Health Sciences](#)

[↓ Information booklet](#)

Degree Conferred

Master of Science in Molecular Life and Health Sciences

Language(s) of Study

English

Programme Structure

120 ECTS credits

4 semesters full-time

or

90 ECTS credits

3 semesters full-time

Programme Start

September or February

Student Advisor

Dr Steve Robatel

bio-scimed@unifr.ch

Additional Information

[→ Regulations](#)

[Apply for Admission →](#)



<https://www.unifr.ch/bio/en/studies/master/master-in-molecular-life-and-health-sciences/>

Master in Environmental Biology



Major environmental problems, in particular global change and its consequences for biodiversity and ecosystem functioning, are intimately interconnected and pose a threat to our future. Solving these problems requires an integrative and synergistic approach in terms of both fundamental and applied research.

The Department of Biology of the Faculty of Science and Medicine offers a multidisciplinary **Master of Environmental Biology**. The program ranges from fundamental concepts in **ecology and evolution, molecular aspects of plant and microbial sciences to applied solutions for environmental policies and sustainable development**. It provides students with state-of-the-art training and background in conceptual, technical, and applied aspects of environmental biology, from genes to ecosystems.

Master students are integrated into active research teams and can thus gain extensive experience in basic and applied academic research in environmental biology. Students will have the opportunity to choose between four options. English is the official language for all activities.

Available options

1. [Ecology and Evolution](#) | 120 ECTS
2. [Plant and Microbial Sciences](#) | 120 ECTS
3. [Applied Environmental Biology](#) | 120 ECTS
4. [Teaching](#) | 90 ECTS

Study Plan

↓ [Study Plan of the Master in Environmental Biology](#)

↓ [Information booklet](#)

Degree Conferred

Master of Science
in Environmental Biology

Language(s) of Study

English

Programme Structure

120 ECTS credits
4 semesters

or

90 ECTS credits
3 semesters full-time

Programme Start

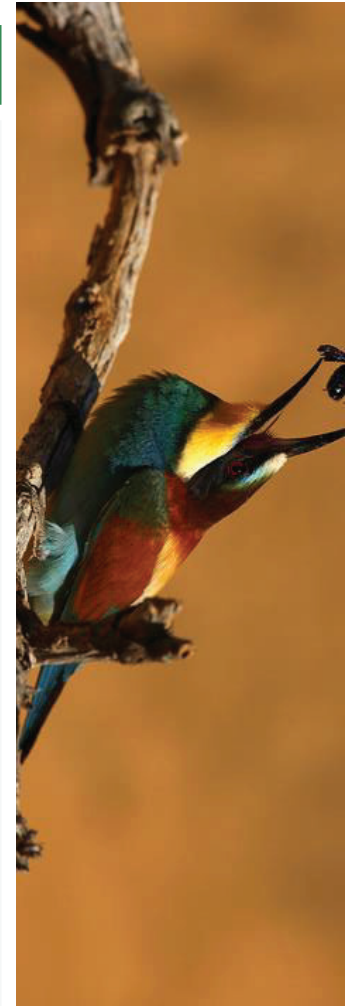
September or February

Student Advisor

Dr Steve Robatel
bio-scimed@unifr.ch

Additional Information

→ [Regulations](#)

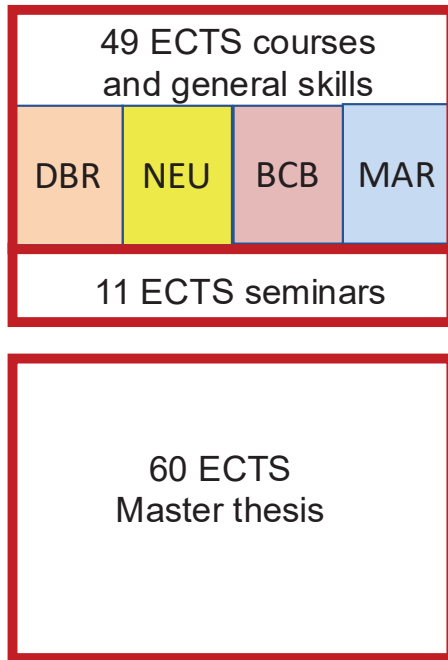


<https://www.unifr.ch/bio/en/studies/master/master-in-environmental-biology/>

Structure of Biology MSc Programs

MSc in Molecular Life and Health Sciences

4 options
120 ECTS



DBR : Developmental Biology and Regeneration

NEU: Neurobiology

BCB: Biochemistry and Cell Biology

MAR: Marine Biology

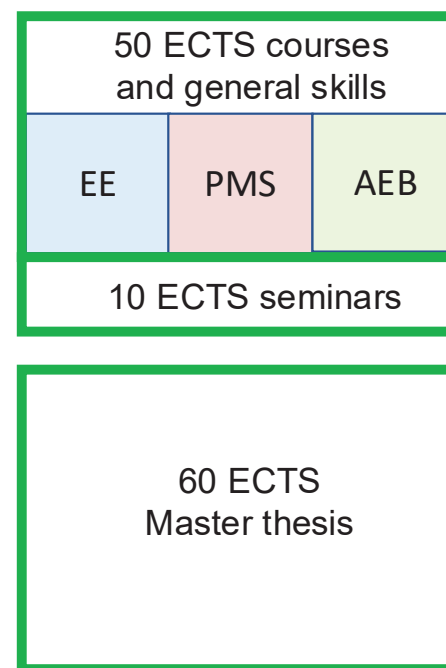
MSc in Molecular Life and Health Sciences

Teaching
90 ECTS



MSc in Environmental Biology

3 options
120 ECTS



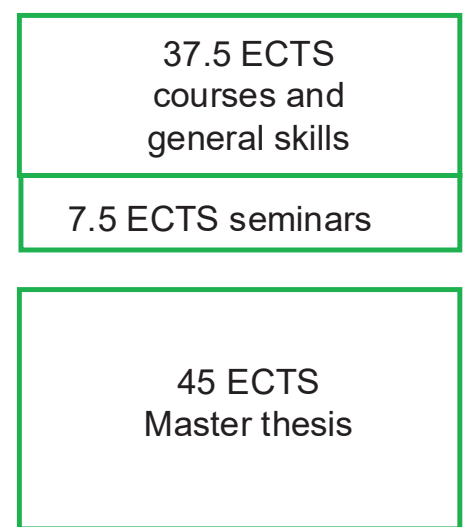
EE : Ecology and Evolution

PMS: Plant and Microbial Sciences

AEB: Applied Environmental Biology

MSc in Environmental Biology

Teaching
90 ECTS



Study plans/Curricula

For every option:

- Compulsory courses*
- Recommended / Elective courses# 36.5 / 49 ECTS
- Thesis related activities 8 / 11 ECTS
- Master thesis 45 / 60 ECTS

* Check table at the end of the study plan

<https://www.unifr.ch/scimed/en/plans>

Elective courses:

You can also take many teaching units from the MSc in Environmental Biology

Curriculum for the award of the Degree of

Master of Science in Molecular Life and Health Sciences

options:

- Developmental Biology and Regeneration
- Neurobiology
- Biochemistry and Cell Biology
- Marine Biology
- Teaching

Accepted by the Faculty of Science and Medicine on 30.05.2022
Revised version of 13.04.2026

Study plans/Curricula

For every option:

- Compulsory courses*
- Recommended / Elective courses# 37.5 / 50 ECTS
- Thesis related activities 7.5 / 10 ECTS
- Master thesis 45 / 60 ECTS

* Check table at the end of the study plan

<https://www.unifr.ch/scimed/en/plans>

Elective courses:

You can also take many teaching units from the MSc in Molecular Life and Health Sciences

Curriculum for the award of the Degree of

Master of Science in Environmental Biology

options:

- Ecology & Evolution
- Plant & Microbial Sciences
- Applied Environmental Biology
- Teaching

Accepted by the Faculty of Science and Medicine on 30.05.2022
Revised version of 13.04.2026

MSc in Molecular Life and Health Sciences						AUTUMN SEMESTER 2026					
Options Developmental Biology and Regeneration; Neurobiology; Biochemistry and Cell Biology; Marine Biology; Teaching											
	MONDAY		TUESDAY		WEDNESDAY		THURSDAY		FRIDAY		
8.15 - 9.00	SBL.30001 (w.5-6 WD) SBC.07110 (w.1-2 WD) SBC.07107 (w.8-10 WD) SBL.00125 (w.11-12 WD)		SBL.00115 (w. 5-8)		SBL.30001 (w.5-6 WD) SBC.07110 (w.1-2 WD) SBC.07107 (w.8-10 WD) SBL.00125 (w.11-12 WD) HPC (w. 3-4 WD)		SBC.04202 (w.9-14)		SBL.00125 (w.11-12 WD)		
SBL.00114 (w.1-4) SBL.00115 (w.5-8) SBL.00130 (w.9-13)											
9.15 - 10.00			SBL.00431 SBL.00432				SBL.20001 or SBL.20002 (w. 6-14)		SBL.00453 (w.2-10) SBL.00125 (w.11-12 WD)		
10.15 - 11.00											
11.15 - 12.00					SME.05001						
12.00 - 13.15			SBL.00117		SBL.20004 (w. 3-10)		SBL.30001 (w.5-6) SBL.00451 (w.13) Reserved for <i>topical courses</i> * SBL.00411 SBL.00412 SBL.00414 SBL.10006 SBL.10008		SBL.30001 (w.5-6) SBL.00451 (w.13) SBC.07104 (w. 3, 4, 7, 8) SBC.07105 (w. 8, 10, 12, 13) Reserved for <i>topical courses</i> * SBL.00411 SBL.00412 SBL.00414 SBL.10006 SBL.10008		
13.15 - 14.00	SBL.10105 (except w. 1, 2, 11, 12)										
14.15 - 15.00											
15.15 - 16.00			SBL.00119								
16.15 - 17.00											
17.15 - 18.00											
18.15 - 19.00											

Topical courses* : refer to **moodle page SBL.04000 for details

w: week of the semester. If not specified, whole semester. WD : whole day

SBC.04203 block course: schedule will be arranged with the participants

Block courses SBL.00118; SBL.10009; SBL.30004 are not shown in this weekly schedule

HPC: Introduction to High-Performance Computing (UniBe) please see <https://www.philnat.unibe.ch/> given on week 3 and week 4

This course is also named "HPC and cloud computing", code 46747

Master in Environmental Biology - Autumn semester - Overview

	Block courses Monday	Weekly courses Tuesday	Block courses Wednesday	Weekly courses Thursday	Weekly/Block courses Friday	
8h15 – 9h	Introduction to UNIX and BASH SBL.07110 Weeks 1 to 2 – whole day		Introduction to UNIX and BASH SBL.07110 Weeks 1 to 2 – whole day		Introduction to UNIX and BASH SBL.07110 Weeks 1 to 2 – afternoon	Legend: Obligatory courses for at least one options are in roman Recommended courses are in italic Colour: Research skills Scientific core courses Thesis related activities In case of discrepancy with the official TimeTable, the latter is authoritative Topical courses are not included (usually on Thursday and Friday afternoon). See the corresponding Moodle page Recommended topical courses: Signalling and Transport SBL.00411 HPC and cloud computing (recommended course) Weeks 3 to 4 UniBe
9h15 – 10h	Introduction to R SBL.30001 Weeks 5 to 6 – whole day	Scientific writing SBL.00410 (9h15 to 11h – weeks 1, 2, and 14) in alternance with Critical reading SBL.20005 (10h15 to 11h)	Introduction to R SBL.30001 Weeks 5 to 6 – whole day		Introduction to R SBL.30001 Weeks 5 to 6 – afternoon	
10h15 – 11h				Biostatistics I - generalized linear models and mixed effects models SBL.20001 in alternance with Biostatistics II - multivariate analysis SBL.20002	Principles of environmental ethics (advanced) SSE.00433	
11h15 – 12h		Seminars in Biology SBL.00431 & SBL.00432	Organization and annotation of Eukaryote genomes SBL.30004 Weeks 5 to 10 – whole day			
12h15 – 13h	Bioinformatics (practical + in silico) SBC.07107 Weeks 8 to 10 – whole day		Bioinformatics (practical + in silico) SBC.07107 Weeks 8 to 10 – whole day		In vivo biochemistry: visualization of transport SBL.20039 Weeks 1 to 4 – 10h15 to 13h	
13h15 – 14h		Methods in plant pathogen interactions SBL.20003	Introduction to metabolomics: data acquisition and processing SBL.20004 Weeks 3-10 – 13:15 to 17:00	Global change biology SBL.20041 in alternance with Invasion biology SBL.20037	Basics in biostatistics SBL.00504 Weeks 1 to 10	
14h15 – 15h						
15h15 – 16h				Research Seminars in Environmental Biology SBL.20081 & SBL.20082		
16h15 – 17h	Light and fluorescence microscopy for Life Sciences SBL.00125 Weeks 11 to 12 – whole day		Light and fluorescence microscopy for Life Sciences SBL.00125 Weeks 11 to 12 – whole day		Light and fluorescence microscopy for Life Sciences SBL.00125 Week 11 – whole day	
17h15 – 18h				Introduction to mass spectrometry and proteomics SBL.00451 Week 13 – afternoon	Introduction to mass spectrometry and proteomics SBL.00451 Week 13 – afternoon	

Registration to teaching units

Use your MyUniFr account

Registration for the teaching units is strongly recommended, in particular to guarantee you a spot in the courses, and especially in the practicals.

[↗ To course registration](#)

[↓ Calendar 26-27 in ics format](#)

Academic Year 2026-2027

Autumn semester

Spring semester

Registration: 24.08.26 - 20.09.26

Late registration/changes: 21.09.26 - 16.10.26

Start and end of courses: 14.09.26 - 18.12.26

Notes:

- New students are asked to wait until the "Starting Days" welcome event before registering.
- In order to register to classes, you must have paid your tuition fee for the semester. Make sure that you register correctly for the course and check your enrolment data under "cursus".
- If you follow a personalized study plan, some courses may not appear in the offer list. In this case, select "Register outside of study plan" and explain why you are registering to this class. Please note that if you do not provide an explanation, your registration might be denied.
- If you decide to not follow a class, please unregister. For courses with continuous assessment, please contact the [reference person](#) of the corresponding field.

<https://www.unifr.ch/scimed/en/studies/register>

Registration to exams

Use your MyUniFr account

Registration to exams is mandatory and does not automatically happen if you are registered to a class. Please observe the deadlines. Each teaching unit is assessed 2-3 times a year.

At each session, you choose which of the available exams you wish to register for.

[↗ To exam registration](#)

[↓ Calendar 26-27 in ics format](#)

[→ Regulations](#)

2025-2026 Exam sessions

Winter session	Summer session	Autumn session
Registration: 24.11.25 - 12.12.25 Publication of dates on MyUniFR: 12.01.26 Exam dates: 26.01.26 - 14.02.26 Results: by 27.02.26 Unregister: 1) on Myunifr: until 12.12.25 2) by form: until 16.01.26 3) letter to the Dean: until 15 days after the exam		

<https://www.unifr.ch/scimed/en/studies/register>

Lecture support

Moodle: <https://moodle.unifr.ch/>

Registration to moodle is not
equivalent to registration via
MyUniFr

SBL.00115 The RNA World [SA-2026]

Enrolment options

[SBL.00115 The RNA World \[SA-2026\]](#) ➔

The RNA World

The flow of genetic information goes from DNA to RNA, and from RNA to proteins. How could the first proteins be made if these are needed for transcription and translation? The hypothesis of the RNA world suggests that catalytic RNAs (ribozymes) may have preceded proteins. This lecture will briefly describe the origins of life and emphasize the importance of ribozymes, their mode of action and their roles in today's world. The following, and main part of the lecture covers the mechanism of RNAi interference, the importance of non coding RNAs and the implications of RNA technology.

Teacher: [Alessandro Puoti](#)

Self enrolment (Student)

No enrolment key required.

Enrol me

Block courses and topical courses

Moodle page SBL.04000 (SA26-SP27)

You can also find the information for a specific course on:

Timetable: <https://www.unifr.ch/timetable/en/>

This Moodle page has the purpose to coordinate block courses given during the semesters of the

MSc in Molecular Life and Health Sciences Master programme

MSc in Environmental Biology

Topical courses are given by external speakers on Thursday and Friday afternoon.

Block courses are given over several days, once every year or every second year.

For the organisers: Before planning your course, please check if the dates are not already taken. In general, we do not show the rooms on this moodle page. Please refer to the courses on GeFri/Timetable.

Title	Code	Responsible	Semester	Timing	Topical course
Signalling and transport	SBL.00411	Geisler	Autumn	2 afternoons	yes
Introduction to protein function and structure	SBL.00412	Falquet	Autumn	2 afternoons	yes
Cell fate and tissue regeneration	SBL.00414	Jazwinska	Autumn	2 afternoons	yes
Developmental biology of marine animal models (biennial)	SBL.10006	Sprecher	Autumn	2 afternoons	yes
Omics approaches in marine sciences (biennial)	SBL.10008	Sprecher	Autumn	2 afternoons	yes
Introduction to mass spectrometry and proteomics	SBL.00451	Dengjel	Autumn	2 afternoons	yes
Cell proliferation	SBL.00415	De Virgilio	Spring	2 afternoons	yes
Biological rhythms	SBL.00416	Albrecht	Spring	2 afternoons	yes
Microbial metabolism and genetics	SBL.00418	Reinhardt	Spring	2 afternoons	yes
Advanced imaging	SBL.00419	Egger	Spring	2 afternoons	yes
Oceanography and marine ecosystems (biennial)	SBL.00421	Sprecher	Spring	2 afternoons	yes
Polar biology (biennial)	SBL.10007	Sprecher	Spring	2 afternoons	yes
Altered carbohydrate metabolism in disease	SBL.10010	Dengjel	Spring	2 afternoons	yes
Advanced quantitative proteomics	SBL.00452	Dengjel	Spring	2 afternoons	yes
BeFri research colloquium in cell and developmental biology I	SBL.00127	Egger	Spring	1 afternoon	no
BeFri research colloquium in cell and developmental biology II	SBL.00128	Egger	Spring	1 afternoon	no
Light and fluorescence microscopy	SBL.00125	Egger	Autumn	5 days, split	no
Established and emerging organisms for marine science	SBL.00126	Sprecher	Spring	10 days, block	no
BeFri research retreat in cell and developmental biology	SBL.00129	Egger	Spring	2 days, block	no
Advanced marine biology practical course	SBL.10009	Sprecher	Autumn	7 days, block	no

Location, dates and time of teaching units

Timetable: <https://www.unifr.ch/timetable/en/>



UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG

Timetable

[Studies](#) [Campus](#) [Research](#) [University](#) [Faculties](#) [Continuing Education](#)

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Course catalogue

Found: 2

Teacher, Lesson, code

sbl.00431

Days and hours

Filter by day

Filter by time

MASTER | AS-2026 | UE-SBL.00431

Seminars in biology

📅 Tuesday 11:15 - 13:00 PER 04, Room 0.110
👤 Wicky Collaud Chantal
🏛️ Faculty of Science and Medicine, Biology
🌐 English

MASTER | SS-2027 | UE-SBL.00431

Seminars in biology

📅 Tuesday 11:15 - 13:00 PER 04, Room 0.110
👤 Wicky Collaud Chantal
🏛️ Faculty of Science and Medicine, Biology
🌐 English

Location, dates and time of teaching units

Timetable: <https://www.unifr.ch/timetable/en/>

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UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG

Studies Campus Research University Faculties Continuing Education

Timetable

🏠 · Timetable

Seminars in biology

Teaching

Dates and rooms

Evaluation

Assignment

Date	Hour	Type of lesson	Place
15.09.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
22.09.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
29.09.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
06.10.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
13.10.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
20.10.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
27.10.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
03.11.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
10.11.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
17.11.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
24.11.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
01.12.2026	11:15 - 13:00	Cours	PER 04, Room 0.110
15.12.2026	11:15 - 13:00	Cours	PER 04, Room 0.110

UE-SBL.00431

Master
2 ECTS
AS-2026

Download calendar file

Back

Weekly Newsletter: announces special and irregular events



UNIVERSITÉ DE FRIBOURG
UNIVERSITÄT FREIBURG



Tuesday

15.09.2026

11:15

Zoology Seminar
PER04 0.109

Dr. Leila Alieh
EPFL, Lausanne

*Lipids in Development and
Regeneration*

Host: Anna Jazwinska

Thursday

17.09.2026

13:15 - 15:00

Topical Course
PER04 room 0.109
SBL.00414

**Cell fate and tissue
regeneration**

Lecturer: Dr. Marie-Noelle
Giraud

Host: Anna Jazwinska

15:15 - 16:00

**Research seminars in
environmental biology**
PER04 room 0.110
SBL.20081 / SBL.20082

Speaker: **Mario Desallais**

*Biodiversity cannot but be
beneficial to ecosystems:
How underyielding
predicts species
extinctions*

Group: Rohr

Friday

18.09.2026

13:15 - 15:00

Topical Course
PER04 room 0.109
SBL.00414

**Cell fate and tissue
regeneration**

Lecturer: Dr. Marie-Noelle
Giraud

Host: Anna Jazwinska

Plans

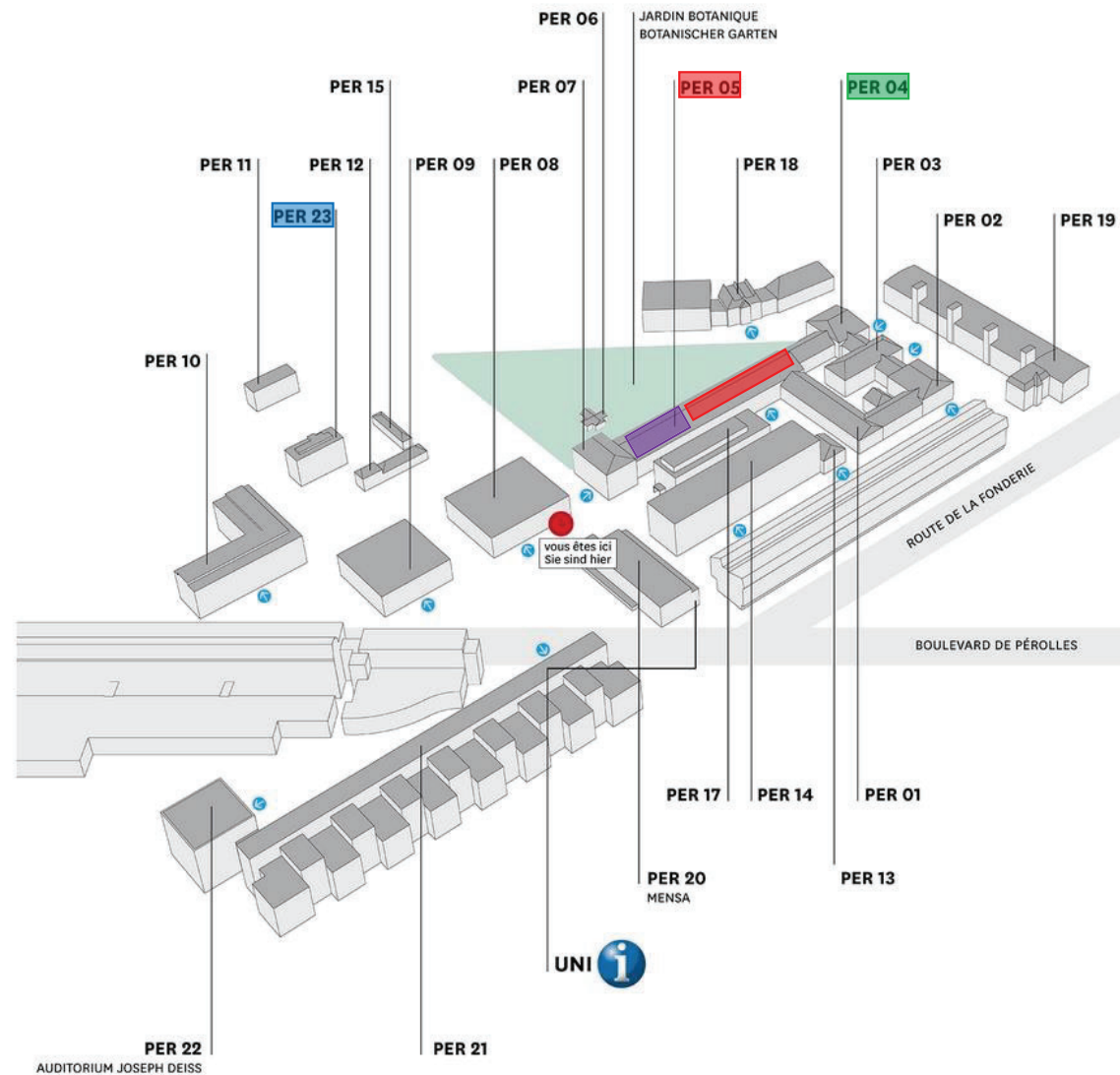
Site Miséricorde

Site Pérolles

Site Beauregard

Site Regina Mundi

Site Pérolles



PER 23 : Ecology and Evolution

PER 05 : Biochemistry

PER 05 : Zoology

PER 04 : Plant and Microbial Sciences

Additional important information

<https://www.unifr.ch/scimed/en/studies/practical/>

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Transcripts and validations

Reference persons

Register a minor or change study field

Student requests

Complaints and Appeals

Continuing education

Teacher education

Regulations and Curricula

Mobility

Frequently asked questions

Practical information

Here, you will find information about registrations, validations, switching you study field, student requests, and complaint procedures.



Study advisors

Advice about study choices and organization as well as mobility.



Registration

Information about registration to classes, exams and minors.



Attestations and Validations

Information on how to obtain transcripts and attestations, and how to validate credits.



Reference persons

Persons to contact with administrative questions about courses and exams



Register a minor or Change study field

Switching major or minor. Registering a minor



Student requests

Requesting recognition of previous studies or exemptions to curricula



Complaints and appeals

Appealing exam results or other decisions

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Language courses

<https://www.unifr.ch/centredelangues/en/courses/semester/>

Semester Courses

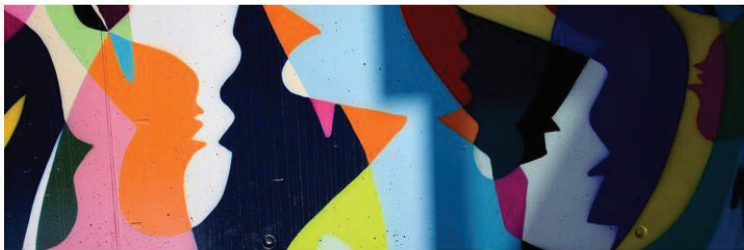
Language Courses

Semester courses

Intensive Courses

Specific Course Law

Testimonials



Semester courses

Registration for students and employees Unifr

Language courses are open to students from all faculties **except**:

- auditors
- visiting students from other universities (also including BeNeFri), unless they are part of a Mobility Programme
- persons from outside the university (except [partner institutions](#))

[↓ Admission requirements](#)

- 📍 German, French, English, Italian
- 👥 Students and employees Unifr and [partner institutions](#)
- 📅 Weekly courses, during the semester
- 📈 A1 - C2

📅 Autumn Semester 2026 - Course Registration Information →

Registration period: 31.08. - 27.09.2026

Beginning of classes: first week of the semester

📌 Students of the University of Fribourg can register directly via **MyUnifr**. For all other groups (employees of Unifr, employees and students of our [partner institutions](#)), course registration takes place via our website.

NB: Only ECTS for English courses can be credited

MSc Biology students often take:

**B2-C1 Academic English
for Master's Students:
Presentation, discussion
and team-working skills**

📅 19.09.2023 - 19.12.2023

🗣 Séminaire

🗣 English

Courses in Bern and Neuchâtel

BeNeFri

Presentation

The BeNeFri network, as the result of the collaboration between the Universities of Bern, Neuchâtel and Fribourg, allows you to attend courses at both partner universities. This way, you have the opportunity to follow a wide-range of courses and to discover student life at another university.

Legal basis

- [🔗 Framework agreement of October 27, 2014 on the BENE弗里 network](#)
- [🔗 Directive of April 29, 2008 for the reimbursement of travel expenses within the BENE弗里 network](#)

Registration

Registration to the BeNeFri network is possible for study fields mentioned in the annex to the framework convention.

For further information (study fields, courses, recognitions, etc.), please contact the [faculty](#) involved.

Registration requests to BeNeFri courses must be submitted on the [MyUnifr](#) portal within the following deadlines:

- Autumn semester: **30 September**
- Spring semester: **28 February**

❗ Registrations are valid for **one semester only**. You will therefore have to reregister for each semester if you wish to remain registered with the BeNeFri network.

<https://www.unifr.ch/studies/en/organisation/administrative-services-unifr-students/benefri.html>

Courses in Bern and Neuchâtel

E-account

Students coming to Unifr:

- **If you are registering for the first time at the University of Fribourg in the BeNeFri network** (including re-registration after an interruption of a few semesters): you will receive an e-mail (@unibe.ch / @unine.ch) from the IT Services concerning the activation of your account.
- **If you have already been registered at the University of Fribourg in the BeNeFri network for the previous semester:** your e-account is on principle still active.

For any enquiries or requests relating to your e-account or its reactivation, please contact the student support [Micromus](#).

Students attending Unibe or Unine:

The partner university is responsible for your electronic access.

Reimbursement of travel expenses

[Directive of April 29, 2008 for the reimbursement of travel expenses within the BENEFR network](#)

You can receive a reimbursement of **your travel expenses by train** between the three partner universities. To do so, please fill in the [form](#) and return it to the Office for Admissions and Registration by post or e-mail to admission-benefri@unifr.ch. Only **full** applications submitted within the following **deadlines** will be considered:

- Autumn semester: **31 January**
- Spring semester: **30 June**

❗ You can benefit from the allowance only if you are **registered with the BeNeFri network** for the relevant semester.

❗ The Unifr participates only in the reimbursement of **train tickets** according to the following criteria:

- Value of a **2nd class half-fare** ticket
- Trips between Fribourg, Berne and Neuchâtel stations only

❗ In case of at **least 6 trips per semester** the Unifr participates in the expenses of a half-fare travel card or a GA travel card upon presentation of the receipt; the **SwissPass alone is not sufficient**.

❗ **Each line of the form must be signed by hand** by the professor teaching the course, thus attesting to your participation in the course. The **use of digitised signatures will not be accepted** without further proof of attendance or confirmation from the professor teaching the course.



Reimbursement application for students attending courses at a host university. The reimbursement of travel costs will be made per semester on a bank or postal account. Proof of correct registration at the admissions office of the home university and the legally compliant BeNeFri registration must be guaranteed.

Contribution to Half-fare travel card or GA travel card for **at least 6 trips** per semester.

Total travel expenses	CHF _____	All original train tickets must be provided (or as PDF copy)
- Half-fare travelcard	CHF 50.00	Contribution from universities to the Half-fare travelcard or the GA travelcard:
- GA travelcard	CHF 120.00	only with copy of the webpage (PDF, no photo format) www.swisspass.ch -> Travelcards or purchase receipt. A copy of the SwissPass or the invoice is not sufficient.
	CHF _____	

Date: _____ Signature of the student: _____

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- each and every travel has to be accounted for.
- only lectures, exams, workshops and seminars will be reimbursed.
- travels for preparation or teamwork are not reimbursed

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Why you are here

After the Bachelor, the Master is the second step in becoming a biologist

- Use the knowledge acquired during the Bachelor
- explore a more specialized topic
- switch from a passive to an active attitude
- independent and creative thinking
- learn how to communicate and present your results
- learn how to write a scientific paper in English
- learn how to have a critical approach of your and other's results
- organize yourself in planning experiments

The duration of a 90-ECTS Master in Biology is **3 semesters**, of which **1 year full-time** dedicated to the laboratory work

The duration of a 120-ECTS Master in Biology is **4 semesters**, of which **1.5 year full-time** dedicated to the laboratory work

Why you are here

The Master widens your job opportunities. Your next step might be in...

- getting a teaching diploma (maturity level)
- starting a PhD
- working or being trained in a pharmaceutical company
- working as a lab manager in an academic research laboratory
- working as a salesperson
- working in patent offices
- working in regulatory affairs
- becoming a medical analyst (FAMH)

Lecture SBL.00420 (spring semester) gives more info about looking for, obtaining and preparing a job interview

Timeline (120 ECTS programmes)

Semester 1

- Take as many classes as possible (Master courses, complements)
- Start looking for a laboratory (“Master evening” towards the end of November)
- Follow the seminars (mandatory)

Semester 2

- Start the laboratory work
- Start organizing the written Master’s thesis, literature searches
- Take the mandatory classes offered in the Spring semester
- Take complementary courses, if this applies
- Follow the seminars, give your first progress report

Semester 3

- Carry on your laboratory work. New questions? New perspectives?
- Read and organize the literature related to your thesis project
- Seminars: mandatory presentations (progress report, Journal club)
- Take additional classes

Semester 4

- Carry on and bring your laboratory work to an end
- Finish writing the thesis (50-100 pages)
- Take remaining classes
- Prepare and present the Master thesis (30 minutes).

Timeline (90 ECTS programmes)

Semester 1

- Take as many classes as possible (Master courses, 30-ECTS minor)
- Start looking for a laboratory (“Master evening” towards the end of November)
- Follow some of the mandatory seminars

Semester 2

- Start the laboratory work
- Start organizing the written Master’s thesis. Literature study.
- Take the mandatory classes offered in the Spring semester
- Take complementary courses
- Take courses from the 30-ECTS minor
- Follow the seminars, give your first progress report

Semester 3

- Carry on and bring your laboratory work to an end
- Read and organize the literature related to your thesis project
- Seminars: mandatory presentations (progress report, Journal club)
- Finish writing the thesis (50-100 pages)
- Take remaining classes, if this applies
- Prepare and present the Master thesis (30 minutes).

Final steps of your Master studies:

- 1) The Master thesis (SBL.05001/2) is carried out with the agreement of the group leader. There is NO circulation of the Master's thesis. The group leader gives the grade to Dr. Steve Robatel (50% lab work, 25% written thesis; 25% final presentation) on a signed document.
 - 2) Thesis-related activities must be entered into GeFri. To do this, prepare a sheet with the different teaching units and have it signed by your group leader (or the relevant teacher). Then transmit to Dr. Steve Robatel.
 - 3) Semester fees: If you finish your Master thesis towards the end of a semester, make sure that you have acquired all remaining credits and that you have defended your Master thesis. Even if the correction of the Master thesis manuscript will take some time, you do NOT have to pay one more semester just to get the grade of the Master thesis entered.
 - 4) If you later realize that you want to repeat an exam, please pay your bill quickly. The principle is simple: as long as you want to take additional exams or acquire additional teaching, you must be registered.
 - 5) To submit the written Master's thesis: We are strict with the form of writing the summary. The writing of the Master thesis is under the responsibility of the group leader. No need to deliver a manuscript to the administration/department. Only to your group leader.
 - 6) Validation of the package: You validate your packages (courses, master thesis) when the total 120 / 90 ECTS credits, and all mandatory teaching units have been obtained. The average grade of the package counts (≥ 4.00)
 - 7) Diploma ceremony: The deadline for obtaining the printed diploma is indeed strict: for the ceremony taking place in February, the deadline to pay for the credits is mid-December of the preceding year. Information about the graduation ceremony is on <https://www.unifr.ch/scimed/en/info/ceremonies>
- For those who have missed the deadline, an official certification of the credits and the completion of the Master can be obtained at any time with the dean's office.
- 8) You can exmatriculate once you have all the validated packages. This is especially useful when continuing at another university.

Delivery of the MSc thesis:

- Please follow the procedure as on:

[https://www.unifr.ch/scimed/en/studies/master-\(msc\)/master-thesis.html](https://www.unifr.ch/scimed/en/studies/master-(msc)/master-thesis.html)

Only one copy of the Master's thesis for your group leader.

Usually at this point, Master's thesis-related activities have been validated.

- Time considerations:

<https://www.unifr.ch/scimed/en/validate>

For the master thesis manuscript, the last version must be handed to the group leader **before** the beginning of the new semester, so no more corrections are possible. The final correction and grading by the group leader as well as the MSc thesis defence should be done within the 3-4 following weeks, not later.

Thesis-related activities

*you can obtain these documents as a pdf file.
Ask Dr. Steve Robatel*



MSc in Environmental Biology
Validation of Thesis-related activities

Option:

Applied Environmental Biology

Ecology and Evolution

Plant and Microbial Sciences

Teaching (relevant codes are italicized in the table below)

Student name:

Student N°:.....-.....-.....

Code	Title	ECTS	Validation date	Responsible or Group leader	Signature
SBL.20083 or <i>SBL.20084</i>	Research group meetings				
SBL.20081 or <i>SBL.20082</i>	Research seminars in environmental biology				
SBL.00431 or <i>SBL.00432</i>	Seminars in biology				

Student's signature:

Date:



MSc in Molecular Life and Health Sciences
Validation of Thesis-related activities

Option:

Developmental Biology and Regeneration

Neurobiology

Biochemistry and Cell Biology

Marine Biology

Teaching (relevant codes are italicized in the table below)

Student name:

Student N°:.....-.....-.....

Code	Title	ECTS	Validation date	Responsible or Group leader	Signature
SBL.10103 or <i>SBL.10104</i>	Research group meetings				
SBL.10105 <i>SBL.10105</i>	Research seminars in molecular life and health sciences				
SBL.00431 or <i>SBL.00432</i>	Seminars in biology				
SBL.10100 or <i>SBL.10102</i>	Journal club in molecular life sciences				

Student's signature:

Date:

Most questions can be answered through the following documents/websites:

Study plans: <https://www.unifr.ch/scimed/en/plans/master>

Regulations: <https://www.unifr.ch/scimed/fr/rules/regulations>

If you have still not found your answer:

Masters in Biology:

Dr. Steve Robatel (study advisor)

Department of Biology

Chemin du Musée 10

Office 0.349A (PER05)

1700 Fribourg

steve.robatel@unifr.ch

Phone: 026 300 88 44

MSc in Bioinformatics and computational biology, and related courses:

Prof. Daniel Wegmann (study advisor)

Department of Biology

Chemin du Musée 15

Office 1.03 (PER23)

1700 Fribourg

daniel.wegmann@unifr.ch

Department secretary

Mrs **Evelyn Boll**

Chemin du Musée 10

Office **0.334** (Per 05)

1700 Fribourg

evelyn.boll@unifr.ch

GeFri secretary

Dr. Steve Robatel

Chemin du Musée 10

Office **0.349A** (PER05)

1700 Fribourg

steve.robatel@unifr.ch

Communication /Events

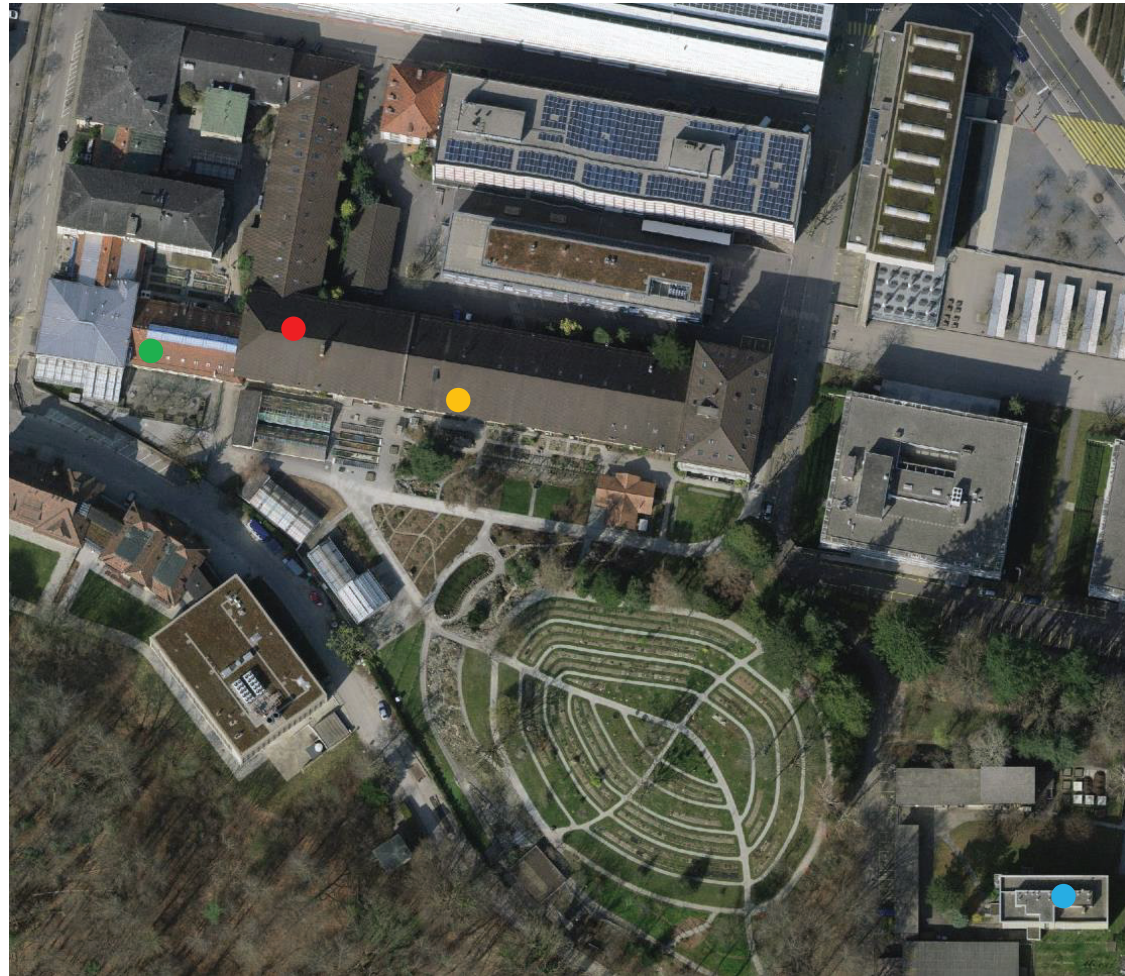
Mrs **Rachel Sauge**

Route Albert-Gockel 3

Office **0.108** (Per 04)

1700 Fribourg

rachel.sauge@unifr.ch



VERY IMPORTANT: if you haven't done this during the welcome event, announce yourself to **Mrs Sauge** in order to be on the mailing list. Please specify the Master and the option.