



Regulations for the Doctoral Program in Biomedicine (BioMed)

Version Juni 3, 2021

I. General Information

The comprehensive study and understanding of organ function in health and disease (physiology and pathophysiology) requires multidisciplinary approaches in basic and applied biomedical research. The PhD Program Biomedicine (BioMed) is part of the Life Science Zurich Graduate School (LSZGS) and imparts knowledge, concepts and modern technologies to address complex biomedical questions on a molecular, cellular and systemic level with the vision to advance clinical translation and improve patient care. BioMed offers students a strong interactive program that combines groups from the Swiss Federal Institute of Technology in Zürich (ETHZ), the University of Zürich (UZH) and the University Hospital Zürich (USZ). The highly international scientific environment at the three institutions combines cutting-edge research with a modern teaching curriculum.

II. Admission

Applicants must hold a Master's degree or equivalent from a university before starting the BioMed program, but applications can be submitted before obtaining the degree. Applicants should, however, obtain their degree within six months after the application deadline. Admission to a graduate school is a prerequisite for enrollment and obtaining a doctoral degree at the UZH but not ETHZ.

For admission to the BioMed program, students can either apply to the LSZGS (track I) or directly to a research group leader at UZH or ETHZ, who is a member of the BioMed program (track II). Track II candidates can apply to the BioMed program via the LSZGS application tool before the start of thesis but no later than 3 months after start of the PhD thesis.

The BioMed program commission consisting of five to eight research group leaders and a student representative reviews all applications and selects the best candidates for an admission interview. Interviews for track I candidates take place twice a year, while interviews for track II candidates take place four times a year. The interviews involve the presentation of a research project (ideally the Master thesis) by the candidate and will determine whether the candidate's scientific knowledge, motivation and English communication skills are sufficient for admission.

Based on the interview, the BioMed program commission decides on the admission of the candidate to the program. Accommodation and travel expenses for the on-site interview of track I applicants are reimbursed by the LSZGS.

Applicants accepted to the program have to register for student status with the Faculty of Science (MNF) of the UZH or a given department at ETHZ, depending on the affiliation of their future research group.

Candidates who have not been admitted to the BioMed program cannot reapply. Candidates, who have previously been rejected from a different doctoral program of the LSZGS, cannot apply to the BioMed program.

III. Structure of the Doctoral Program

1. **Dissertation**

Completing a dissertation usually takes 3 to 4 years. During this time, the PhD student should contribute to at least two peer-reviewed publications that are published, accepted for publication or submitted. The PhD student should be the primary author of at least one of these publications. The written dissertation thesis summarizes the own independent scientific research and can be written in a cumulative (several publications) or thesis format.
2. **PhD Thesis Committee**

Within 6 months of the beginning of a doctorate, the PhD thesis committee must be formed and communicated to the MNF/UZH or ETHZ, respectively, by the official thesis supervisor (responsible faculty member MNF/UZH / responsible group leader ETHZ). The PhD thesis committee consists of at least three members including the official thesis supervisor, the direct thesis supervisor and an external expert (not BioMed). The direct supervisor or the official supervisor must be a BioMed member. The official supervisor and direct supervisor can be the same person. In this case, another knowledgeable scientist is recruited to the committee. Depending on whether the thesis is conducted at the UZH or the ETHZ, two of the members must have the right to confer PhDs at the MNF/UZH or the ETHZ, respectively. The responsible faculty member functions as head of the committee.
3. **PhD Thesis Committee Meetings**

The PhD thesis committee supports the students over the course of their dissertation. Committee meetings are scheduled to take place after about 6 months, 1.5 years, 2.5 years and, if necessary, 3.5 years. At every meeting, the head of the doctoral committee must keep a transcript of the proceedings (minutes), which has to be signed by her/him and submitted to the coordination office of the BioMed program via DissGo and MNF Student Admin within a week of the meeting. At all meetings, the student has the opportunity to talk to the committee members without the direct thesis supervisor being present. Confidentiality is guaranteed. At all meetings, the direct thesis supervisor has the opportunity to talk to the committee members without the student being present. Confidentiality is guaranteed.

 - The 1st meeting includes:
 - Discussion of the research proposal, which has to be submitted by the PhD student to the BioMed program coordination office and all members of the committee no later than 2 weeks before the meeting (corresponds to the doctoral agreements according to PVO §11 (MNF/UZH). The research proposal must be written in the form of a short grant application (max 3'000 words). The document must also be uploaded onto DissGo and MNF Student Admin.
 - Feedback from the direct thesis supervisor to the PhD student regarding her/his performance during the initial period of the doctorate.
 - Information from the official thesis supervisor about the significance of the next meeting for the continuation of the PhD.
 - Presentation of the coursework by the PhD student, approval of the coursework by the committee.
 - Students at the MNF/UZH: presentation of plan for teaching duties.
 - The 2nd meeting must be held at 1.5 years of the start of the thesis and must include:
 - Submission of a written progress report to the members of the committee no later than 2 weeks before the meeting.
 - Presentation and discussion of research progress, data and future strategy by the PhD student.

- Defense of data and strategy by the student.
 - Feedback from the committee to the student about her/his performance.
 - Review of the coursework (collection of ECTS Credits).
 - Review of teaching assignments (MNF/UZH students).
 - The progress report and the minutes of the meeting must be uploaded to DissGo and MNF Student Admin.
- The 3rd meeting must be held at around 2.5 years of the start of the thesis and must include:
- Submission of a written progress report to the members of the committee no later than 2 weeks before the meeting.
 - Presentation of the research project, including scientific background, research data, data interpretation and future research strategy by the PhD student.
 - Defense of the project, data and strategy by the student. The committee decides on “pass” or “no –pass”. At least three members of the committee have to be present. The project defense has to be passed in order for the student to proceed to the final PhD defense. The project defense can be repeated twice within 3 months. In case of ‘no-pass’ after the second repetition, the student fails the PhD program and will not be awarded the title. The student cannot apply to other PhD programs of the LSZGS.
 - Review of the coursework (collection of ECTS Credits).
 - Review of teaching assignments (MNF/UZH students).
 - The progress report and the minutes of the meeting must be uploaded to DissGo and MNF Student Admin.
- A 4th meeting is only mandatory in case the PhD defense does not take place within 1 year of the 3rd meeting. If a 4th meeting is scheduled, it must include:
- Submission of a written progress report to the members of the committee no later than 2 weeks before the meeting.
 - Presentation and discussion of the research project, including scientific background, research data, data interpretation and future research strategy by the PhD student.
 - Review of the coursework (collection of ECTS Credits).
 - Review of teaching assignments (MNF/UZH students).
 - The progress report and the minutes of the meeting must be uploaded to DissGo and MNF Student Admin.
4. Mentor
- The BioMed PhD Program offers students and members of the PhD committees independent counseling at any time by a mentor as needed. Counseling aims to secure mutual fairness between members of the committee and the student, in particular in respect to problems arising from students’ supervision. Students and committee members can choose from a pool of mentors that generally consists of the members of the BioMed program commission. Mentors are bound to secrecy.

5. Coursework within the PhD program

Module/Course	ECTS Credits
Compulsory modules: Introduction to Scientific Integrity (2 h) Participation in 2 student retreats	
Program specific: Courses for PhDs at UZH/ETHZ	max. 8
Transferable skills: Courses for PhDs at UZH/ETHZ	max. 4
General: Courses for PhDs at other institutes of higher education	max. 4
Primary author. Applied sum \geq CHF 20'000 (2 ECTS Credits per application)	max. 2
Presentations: Poster and presentation at an international conference (1 ECTS Credit per poster/presentation)	max. 2
Total	min. 12

6. Teaching Assistance

All PhD students at MNF/UZH (but not ETHZ) must participate in teaching for 100-420 hours over the course of their doctoral studies. The realization of this requirement has to be structured in consultation with the Studies Coordination in Biology according to the rules specified in the document "Teaching requirements for PhD students" (www.biologie.uzh.ch/Studium/Doktorat.html).

IV. Doctoral Degree

1. Registration for Defense

When registering for their PhD defense on the homepage of the MNF Student Affairs Office (PVO §17), students should also submit a digital copy of their dissertation to the imMed program's coordination office.

The public colloquium and disputation should take place 6 to 12 weeks after the dissertation's submission to the coordination office.

2. Circular Round

The circulation round consists of at least two MNF Faculty Members. The dissertation's circulation should be completed no more than 4 weeks after its submission (PVO §21).

3. PhD Defense

The PhD thesis defense follows the rules established by the Faculty of Science (UZH) or the department (ETH) at which the candidate is registered as a student. Registration at UZH or ETH depends on the affiliation of the official thesis supervisor. Differences in the defense format at UZH and ETH lie for example in the length of the presentation and the examination, or whether it is public or not.