

MCBO at a glance

- minimum study duration for a PhD programme at the Medical University of Innsbruck is fixed at 6 semesters, equivalent to 180 ECTS points.
- MCBO is a full-time degree course.
- MCBO is designed to train highly-qualified young scientists that are qualified to conduct scientific research independently at the highest level in various medical disciplines and modern life sciences.

Research project & thesis (160 ECTS)

- This is the most important part of your thesis!
- Guided and trained by your supervisor & thesis committee
- Progress is monitored in regular meetings with your PI, at the MCBO seminar (once a year) and at the PhD thesis committee meeting (TAC) (once a year)

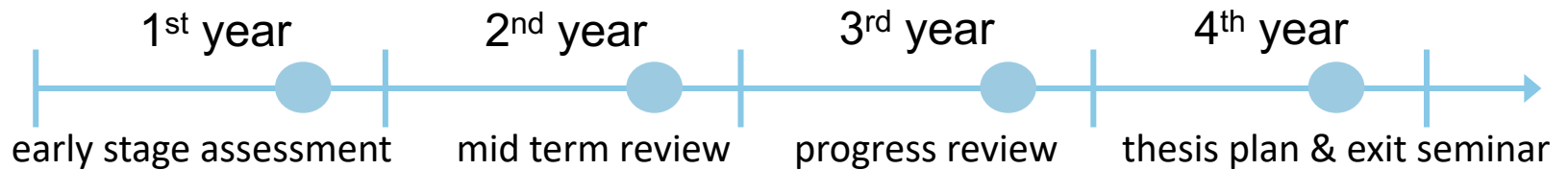
Curricular courses 20 ECTS

		ECTS	1	2	3	4	5	6
Thematic Seminar: 6 ECTS	MCBO Seminar (+PhD proposal, 2-3 pages in the 1st year) (6 = 6 x 1)	6 x 1 ECTS						
Core subjects: 8-10 ECTS	MCBO Core lecture	2 x 1,5 ECTS						
	Joint Seminars in Cell Biology & Oncology	max. 6 x 0,5 ECTS						
	Practical courses (min. two courses) <ul style="list-style-type: none"> • Molecular Biology <ul style="list-style-type: none"> - Genome Editing - Molecular Biological Techniques • Cell Biology & Biochemistry <ul style="list-style-type: none"> - Cell culture, lysis and subcellular fractionation - Protein purification and mass spectrometry • Imaging /FACS <ul style="list-style-type: none"> - Fluorescence Microscopy Techniques - Live cell imaging and superresolution microscopy - Introduction to Flow Cytometry • BiInformatics, Data Bases access & analysis <ul style="list-style-type: none"> - Bioinformatics I - Introduction to R programming for data science - Advanced promoter analysis - CHIP-seq - methylation analysis • Onco-Immunology <ul style="list-style-type: none"> - Immunology - Translational Oncology I 	take two courses						
	Scientific Presentations on International Conferences & Courses	max. 2 ECTS						
General Subjects: 4-6 ECTS	Ethics Good scientific practice Statistics Animal experimentation							

Thematic Seminar

MCBO seminar

The annual progression points



try to couple it to your PhD committee meeting

Core Subject

MCBO core lecture

2 x 1,5 ECTS

- 1,5 ECTS: 12 units a 90 min in the SS & WS
 - every day for three weeks
 - Short intro for background
 - explain the concept and the open questions
 - then discuss **a recent paper that was transformative for a field** – discuss the results and how they change the way we see biology
 - **thematic blocks:**
 - WS: DNA & RNA Biology, Molecular Machines, Cell Organization, Cell Growth and Death
 - SS: Metabolism & cellular homeostasis, Signalling & Cancer, Infection & Immunity

Core Subject

Joint Cell Biology & Oncology Seminar 0,5 ECTS / semester, max. 3 ECTS

- Choose to attend group-meetings of other MCBO groups
 - at least 4 x / semester
 - e.g. Villunger students join Teis-lab meetings, Teis students go to Geley-lab meetings
- Therefore we have a calender (events) with all group-meetings on the homepage
 - Alternatively, we will have a list with all group meeting on the homepage
- It is a good idea to contact the PI / group beforehand
- Don't forget to bring your attendance sheet and hand it in (once it is complete) to the PhD School front office. **Don't forget to write your name on the sheet!**

Core Subject

Methods (min: 2 courses)

- 5 thematic cluster:
 - **Molecular Biology**
 - Genome Editing
 - Molecular Biological Techniques
 - **Cell Biology & Biochemistry**
 - Cell culture, lysis, fractionation and detection of specific proteins and their activity
 - Protein purification and mass spectrometry
 - **Imaging /FACS**
 - Fluorescence Microscopy Techniques
 - Live cell imaging and superresolution microscopy
 - Introduction to Flow Cytometry
 - **Bioinformatics, Data Bases access & analysis**
 - Introduction to R programming for data science
 - Bioinformatics I
 - Advanced promoter analysis with ChIP-seq and methylation analysis
 - **Onco-Immunology**
 - Immunology
 - Translational Oncology I

PLEASE SIGN UP THROUGH THE PhD School FRONT OFFICE
no later than 11.10.19

Core Subject

Scientific Presentations on International Conferences & Courses (max. 2 ECTS)

- Presenting poster/talks on international conferences can be credited with max. 2 ECTS (depending on the duration/program)
- also possible international courses: e.g. EMBO courses / FEBS courses
- as a rule of thumb: for 1 ECTS at least scientific program over 2.5 days
- make sure that you provide all information (meeting program etc.) together with the form. We will be very strict with the regulations.

General Subjects

- Transferable skills that cover a variety of topics
- it is planned to make courses in ETHICS & STATISTIC mandatory for all PhD students

**PLEASE SIGN UP THROUGH I-MED INSIDE OR DIRECTLY
WITH THE RESPECTIVE FACULTY**

Administration

Katrin Scheiber & Brigitte Amtmann

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4th floor, room 04-060

Monday, Thursday and Friday: 9:00-11:00

Tuesday, Wednesday: 12:00-13:00

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