

Administration

PhD Office

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Department of Academic Affairs

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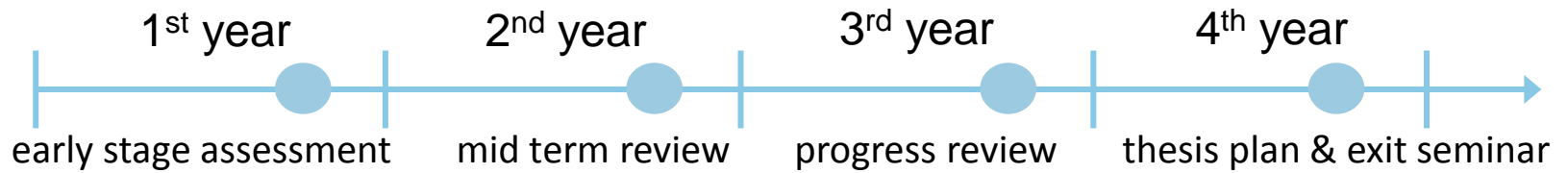
collect 20 ECTS

		ECTS	1	2	3	4	5	6
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 • Bioinformatics, 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						
Thematic Seminar: 6 ECTS	MCBO Seminar (+PhD proposal, 2-3 pages in the 1st year) (6 = 6 x 1)	6 x 1 ECTS						
General Subjects: 4-6 ECTS	Ethics Good scientific practice Statistics Animal experimentation							

Thematic Seminar

MCBO seminar

The annual progression points



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 (13)
 - 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
- 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 MCBO office

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 CENTRALLY THROUGH THE MCBO OFFICE
no later than 08.03.19**

Core Subject

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

- Presenting Poster/Talks on international conference 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
- in the future, 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**