



MCBD KICK OFF WS 2021/2022

84 PhD students are currently active in MCBD22 PhD started since 2021, 10 graduated

Welcome GEG students



MCBD and GEG PhD-program fusion:

- Change of programm possible and easy (PhD start 20/21)
- All credits can be transferred
- Teaching now within the MCBD program

New homepage online.....



https://biomed-phd.i-med.ac.at

→ All information on teaching (methods courses, core lectures, MCBD seminars)

Coordination team







Patrizia Stoitzner MCBD coordinator

Dept. Dermatology, Venereology & Allergology <u>patrizia.stoitzner@i-med.ac.at</u> Matthias Erlacher GEG/MCBD coordinator

Biocenter Genomics and RNomics <u>Matthias.erlacher@i-med.ac.at</u> Verena Labi MCBD coordinator Biocenter Developmental Immunology <u>verena.labi@i-med.ac.at</u>

Administration team



Petra Duspara

Brigitte Amtmann,

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PhD Office

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Please make an appointment before going there.

MCBD student representatives



Hofer Tamara



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Supervisor: von Laer Dorothee



Braun Vincent

E-Mail: vincent.braun@i-med.ac.at

Supervisor: Villunger Andreas

MCBD at a glance

- MCBD is a full-time degree PhD-program
- minimum study duration for a PhD programme at the MUI is
 6 semesters, an equivalent to 180 ECTS point.

180 ECTS = 160 ECTS for your research project & thesis + 20 ECTS for curricular courses/seminars/lectures

Research project & thesis (160 ECTS)

- This is the most important part of your thesis!
- Guided and trained by your supervisor & thesis advisory committee (TAC)
- Progress is monitored in regular meetings with your PI, at the MCBD seminars (mandatory, once a year) and at the TACmeeting (mandatory, once a year)

Curricular courses/seminars/lectures: 20 ECTS

		ECTS	1	2	3	4	5	6
Thematic Seminar: 6 ECTS	Seminar (+PhD proposal, 2-3 pages in the 1st year) (6 = 6 x 1)	6 x 1 ECTS						
Core subjects: 8-10 ECTS	Core lectures	2 x 1,5 ECTS						
	Joint Seminars	max. 6 x 0,5 ECTS						
	 Methods courses Molecular Biology, Cell Biology & Biochemistry Imaging / FACS BioInformatics, Data Bases access & analysis Onco-Immunology 	take two courses						
	Scientific Presentations on International Conferences & Courses	max. 2 ECTS						
General Subjects: 4-6 ECTS	Ethics Good scientific practice Statistics Animal experimentation							

Core Subject Core lectures: Pathology lecture hall (2 x 1.5 ECTS)

- 1.5 ECTs: 12 units a 90 min in the WS & SS
- new interesting lectures
- every day for three weeks
- content: Short intro by the lecturer, who explains the concept and the open questions in the field → presents a recent paper that was transformative for a field followed by a discussion of the results and how they change the way we see biology

Core lectures

Time: 8:15-10:00

Location: Pathologie-HS (Müllerstraße 44)

MCBD I Core Lecture – WS 2021/22

			Date	Program	Lecturer	Room
	Do		07.10. 08:00	MCBD – Semester Kick-Off Introduction/Information	Stoitzner	Pathologie-HS
	Do	1	07.10.	Regulation of gene expression	Vietor	Pathologie-HS
	Fr	2	08.10.	Mitosis and cell divison	Geley	Pathologie-HS
à	Mo	3	11.10.	Regulation of protein synthesis	Erlacher	Pathologie-HS
Cell biology	Di	4	12.10.	Organelle signaling	Teis	Pathologie-HS
Cell	Mi		13.10.	MCBD Seminar		
	Do	5	14.10.	Cytoskeleton & Motors	Dayal	Pathologie-HS
	Fr	6	15.10.	Cell death	Villunger	Pathologie-HS
	Mo	7	18.10.	DNA methylation	Labi	Pathologie-HS
N.	Di	8	19.10.	Cellular degradation pathways	Schmidt	Pathologie-HS
eosta	Mi		20.10.	MCBD Seminar		
Metabolism and cellular homeostasis	Do	9	21.10.	Kinases and Phophatases in cellular homeostasis and diseases	Kullmann	Pathologie-HS
id cell	Fr	10	22.10.	Signaling in Cancer: drug discovery	Dunzendorfer – Matt	Pathologie-HS
sm ar	Mo	11	25.10.	Lipid metabolism	Keller	Pathologie-HS
aboli	Di		26.10.	Public Holiday		
Met	Mi		27.10.	MCBD Seminar		
	Do	12	28.10.	Changes in metabolic pathways	Hagenbuchner	Pathologie-HS

Core Subject Joint Seminars (0.5 ECTS / semester, max. 3 ECTS)

- Choose to attend group-meetings of other MCBD groups \rightarrow at least 4 x / semester
- Find a list of 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 PhD School front office. Don't forget to write your name on the sheet!
- also an option: Biocenter Seminar: Time: Friday's, 4pm

hybrid seminars: CCB Seminar Room M 01.470/M 01.490 and online via Zoom

https://us02web.zoom.us/j/82275383658?pwd=aFY2ZGhxWmhGdzBOaWs2V3BWSUMvdz09

Meeting ID: 822 7538 3658, Passcode: 715884

Confirmation of attendance: e.g. screen shot + attendance sheet



Biocenter Seminar Series WS 2021/22

Date	Speaker Title	Lab, Institute	Fridays at 16:00 s.t. Lecture hall
08.10.21	Zlatko Trajanoski Director Visions	Bioinformatics, Zlatko Trajanoski	M.01.470 M.01.490
15.10.21	Sebastiaan Werten New developments in structura	Biological Chemistry, Klaus Scheffze al biology	k M.01.470 M.01.490
22.10.21	Galina Apostolova From nuclear lamina to genome is SATB2 the missing link?	Institute for Neuroscience, Georg De e architecture to cognition:	chant M.01.490
29.10.21	Johannes Holfeld Heart regeneration becomes re- Shockwave therapy from bench		M.01.470
05.11.21	<i>Clara Baldin</i> Inducible selectable marker ger genetic manipulation	Molecular Biology, Hubertus Haas nes to improve <i>Aspergillus fumiga</i>	M.01.470 Ntus
12.11.21	Chris Dunworth Role of the endoplasmic reticul	Pathophysiology, Hesso Farhan um in the biogenesis of Lewy bod	M.01.470 lies M.01.490
19.11.21	<i>Jeannett Holzknecht</i> <i>In vitro</i> skin infection models to from filamentous fungi	Molecular Biology, Florentine Marx-L o study the efficacy of antifungal p	
26.11.21	Katharina Klee A CRISPR/Cas9 knockout scree	Cell Biology, Georg Vogel n in polarized epithelial cells	M.01.470
03.12.21	<i>Mario Aguiar</i> Siderophore uptake in <i>Aspergil</i>	Molecular Biology, Hubertus Haas Ilus fumigatus	M.01.470
17.12.21	Gerlinde Karbon BCL2 family proteins and the sp	Developmental Immunology, Andreas pindle assembly checkpoint	s Villunger M.01.470 M.01.490
14.01.22	<i>Mariana Araujo</i> Unexpected new functions of th in neuronal development and re		M.01.470 M.01.490
21.01.22	David Heimdörfer Non-coding RNAs and their fun	Genomics and RNomics, Alexander H Inctions in neuro-developmental dis	
28.01.22	Gregor Sturm scRNAseq in cancer	Bioinformatics, Zlatko Trajanoski	M.01.470 M.01.490
	ZOOM ID: 822	2 7538 3658, Passcode: 715884	
Cartervice		Supported by	
		Microsunth AUSTRIA Prome	ega

Core Subject Method courses

(min: 2 courses, 2 x 1.5 ECTS)

- Molecular Biology

- Genome Editing, Moleculas biological Techniques
- CSI Innsbruck
- Next generation sequencing
- Cell Biology & Biochemistry
 - Cell culture, lysis, fractionation and detection of specific proteins and their activity
 - Mass spectrometry, metabolomics, lipidomics
- 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
 - Biological databases
- Onco-Immunology
 - Immunology
 - Translational Oncology
- 3D-bioprinting

PLEASE SIGN UP THROUGH THE PhD OFFICE -> email to Petra Duspara no later than 11.10.2021

Method courses for WS

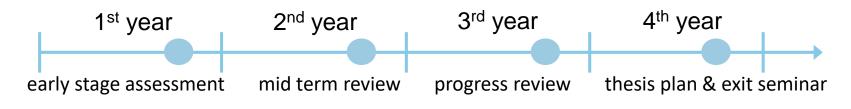
LV-Nr	Titel der LV	Lehrende
040019	Immunology	Stoitzner P, Posch W, Tripp C, Wilflingseder D
041035	Bioinformatics	Hackl H
041510	Molecular Biological Techniques	Dayal A
041538	Translational Oncology	Sampson N, Puhr M, Schäfer G (Deichsler S), Wollmann G
170092	Introduction into Flow Cytometry	Sopper S (Bösch M)
049004	Biological Databases	Schwelberg H
049511	3D Bioprinting Tissue Engineering and Rapid Prototyping	Außerlechner M, Hagenbuchner J
041540	Key Techniques: cell culture ,lysis, fractionation and detection of specific proteins and their activity	Eca Guimaraes Araujo M, Vietor I
999551	Introduction to data analysis with R	Keller M (Koch J)

Please also check out the courses for the SS on the homepage

MCBD seminar

Every Wednesday @ 12

The annual progression points



20 Minutes:

hypothesis - open questions - results - bigger picture

try to couple it to your TAC meeting

Location: Pathology Lecture Hall

MCBD seminar

MCBD Seminar Talks – WS 2021/22

date	student/lab/title/room
<u>06.10.2021</u> 12:00-13:00	Emmanuel Heilmann (von Laer Lab) High-troughput screening method for cis inhibitors of the SARS-CoV-2 3C-like protease Jakob Hirsch (Holfeld Lab) Progesterone promotes spontaneous coronary artery dissection > Pathologie-HS (Müllerstraße 44)
<u>13.10.2021</u> 12:00-13:00	Bernhard Radlinger (Kaser Lab) <i>tba</i> Julia Hofmann (Schneeberger Lab) <i>tba</i> > Pathologie-HS (Müllerstraße 44)
<u>20.10.2021</u> 12:00-13:00	Markus Ausserhofer (Finotello Lab) tba *slot available* > Pathologie-HS (Müllerstraße 44)
<u>27.10.2021</u> 12:00-13:00	Raphael Gronauer (Hackl Lab) tba Michael Jäger (Wilfingseder Lab) tba > Pathologie-HS (Müllerstraße 44)
<u>03.11.2021</u> 12:00-13:00	Vincent Braun (Villunger Lab) tba Leo Pölzl (Holfeld Lab) tba > Pathologie-HS (Müllerstraße 44)
<u>10.11.2021</u> 12:00-13:00	Chiara Andolfi (Culig Lab) <i>tba</i> Sophia Lechner (Gollmann-Tepeköylü Lab) <i>tba</i> > Pathologie-HS (Müllerstraße 44)
<u>17.11.2021</u> 12:00-13:00	Annika Rössler (von Laer Lab) <i>tba</i> Andreas Medici (Troppmair Lab) <i>tba</i> > Pathologie-HS (Müllerstraße 44)
<u>24.11.2021</u> 12:00-13:00	Elena Brunner (Sampson Lab) tba Deborah Minzaghi (Dubrac Lab) tba > Pathologie-HS (Müllerstraße 44)
01.12.2021 12:00-13:00	Elisabeth Damisch (Sampson Lab) tba Felix Nägele (Holfeld Lab) tba > Pathologie-HS (Müllerstraße 44)

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 these regulations.

General Subjects

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

Please sign up though i-med inside or directly with the respective faculty

MCBO best paper award

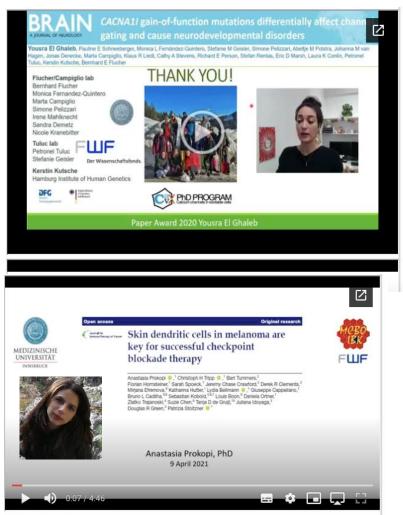
every year for one excellent publication in the field of molecular cell biology

- eligible every MUI PhD-student
- up to 1500 € travel money

2020



2021









With the help of others you will succeed

