

M.Sc. Physical Biology of Cells and Cell Interactions



Study Plan

SEMESTER 1	SEMESTER 2	SEMESTER 3	SEMESTER 4
<p>patent right good sci. practice FELASA B molecular cloning cell culture western blot model systems light microscopy data analysis statistics TEM/SEM bioinformatics</p> <p>basic methods in cell biology (14 CP)</p>	<p>advanced cell biology II (7 CP) → lectures and literature seminars</p>	<p>current concepts in cell biology (15 CP) → project work on the theoretical principles of research conception</p>	<p>master project (30 CP) → six months working on an own research project</p>
<p>advanced cell biology I (6 CP) → lectures and literature seminars</p>	<p>lab rotation II (11 CP) → one out of 21</p>	<p>advanced methods in cell biology (15 CP) → essential experimental techniques intended for the master project</p>	
<p>lab rotation I (11 CP) → one out of 21</p>	<p>lab rotation III (11 CP) → one out of 21</p>		

Master Coordination

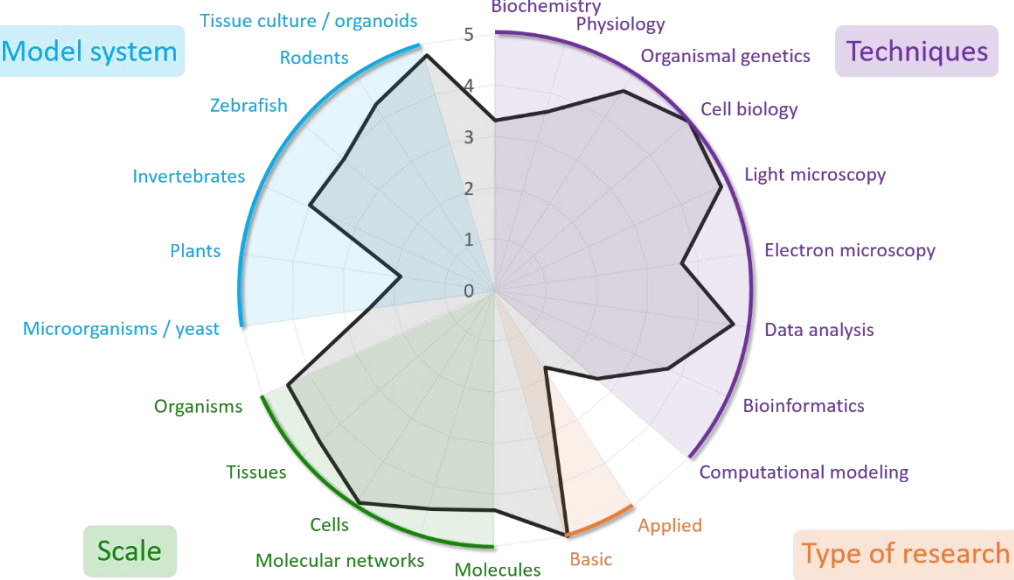
Dr. Isabell Schmitz
Uni Campus Riedberg
Max von Laue-Straße 13
60438 Frankfurt

Tel.: +49 (69) 798 42018
isabell.schmitz@em.uni-frankfurt.de

<http://goethe.link/msc-pbioc>



Study Profile



Lab Rotations

- MSc-PBioC-12 [Neurophysiology of sensory systems](#)
- MSc-PBioC-13 [Auditory function and dysfunction: behavior and physiology](#)
- MSc-PBioC-14 [Information processing in the central auditory system](#)
- MSc-PBioC-16 [Physiology and behavior](#)
- MSc-PBioC-17 [Three-dimensional cell cultures and three-dimensional microscopy](#)
- MSc-PBioC-18 [Three-dimensional developmental biology and three-dimensional microscopy](#)
- MSc-PBioC-21 [Plant cell biology](#)
- MSc-PBioC-22 [Fungal cell biology](#)
- MSc-PBioC-23 [Function and evolution of metabolic pathways](#)
- MSc-PBioC-24 [Special aspects of immunology](#)
- MSc-PBioC-25 [Developmental genetics](#)
- MSc-PBioC-27 [Endothelial cells and tumor cell biology](#)
- MSc-PBioC-28 [Principles of tube morphogenesis](#)
- MSc-PBioC-29 [Developmental cell biology](#)
- MSc-PBioC-33 [Cellular RNA biology](#)
- MSc-PBioC-34 [Neuronal basis of acoustic communication in mammals](#)
- MSc-PBioC-35 [Cellular, molecular and systemic neurobiology in mouse and zebrafish](#)
- MSc-PBioC-37 [Data analysis, mathematical modeling and simulation](#)
- MSc-PBioC-38 [Understanding the molecular mechanisms leading to Parkinson's disease](#)
- MSc-PBioC-39 [Cellular and molecular mechanisms in neurodegenerative disorders](#)
- MSc-PBioC-40 [Molecular Psychiatry](#)

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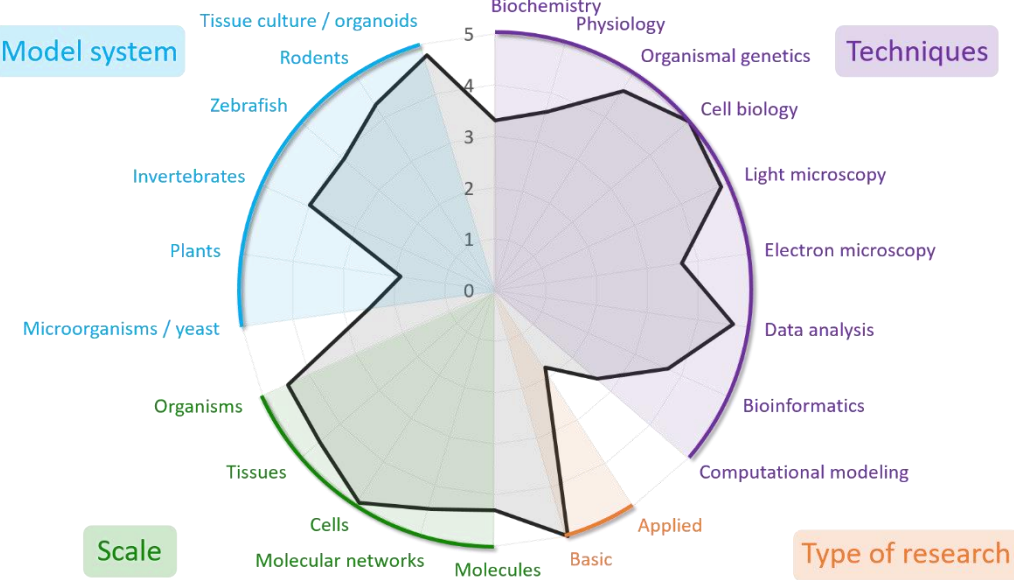
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