

## Master of Science in Physics of Life:

### List of potential supervisors for research projects and MSc thesis

Name	Department	Research area [Theory/T, Experiment/E]	Website, e-mail @ unibas.ch
Abrahams, Jan Pieter	Biozentrum	Single molecule electron diffraction [E]	<a href="#">Website</a> , email: jp.abrahams@
Agnes, Everton	Biozentrum	Theoretical and computational neuroscience [T]	<a href="#">Website</a> , email: everton.agnes@
Basler, Marek	Biozentrum	Bacterial nanomachines and cell-cell interactions [E]	<a href="#">Website</a> , email: marek.basler@
Becskei, Attila	Biozentrum	Stochastic processes in mRNA turnover [T/E]	<a href="#">Website</a> , email: attila.becskei@
Engel, Ben	Biozentrum	Molecular architecture of the cell [E]	<a href="#">Website</a> , email: ben.engel@
Doetsch, Fiona	Biozentrum	Stem cells in the brain [E]	<a href="#">Website</a> , email: fiona.doetsch@
Drescher, Knut	Biozentrum	Multicellular dynamics, bacterial communities, infections [T/E]	<a href="#">Website</a> , email: knut.drescher@
Hiller, Sebastian	Biozentrum	Molecular mechanisms in structural biology [E]	<a href="#">Website</a> , email: sebastian.hiller@
Hondele, Maria	Biozentrum	Biomolecular condensates, RNA processing [E]	<a href="#">Website</a> , email: maria.hondele@
Kempf, Anissa	Biozentrum	Motivational control of behavior [E]	<a href="#">Website</a> , email: anissa.kempf@
Lim, Roderick	Biozentrum	Cellular forces and mechanotransduction [E]	<a href="#">Website</a> , email: roderick.lim@
Mango, Susan	Biozentrum	Chromosomes in 3D [E]	<a href="#">Website</a> , email: susan.mango@
Neher, Richard	Biozentrum	Microbial evolution, host-pathogen interactions [T/E]	<a href="#">Website</a> , email: richard.neher@
van Nimwegen, Erik	Biozentrum	Gene regulatory networks, single-cell dynamics, genome evolution [T/E]	<a href="#">Website</a> , email: erik.vannimwegen@
Pieters, Jean	Biozentrum	multicellular populations at their appropriate density [E]	<a href="#">Website</a> , email: jean.pieters@
Schier, Alex	Biozentrum	Mechanisms of Development [E]	<a href="#">Website</a> , email: alex.schier@
Schwede, Torsten	Biozentrum	Computational structural biology [T]	<a href="#">Website</a> , email: torsten.schwede@
Zavolan, Mihaela	Biozentrum	Computational RNA biology and translational control [T/E]	<a href="#">Website</a> , email: mihaela.zavolan@
Maletinsky, Patrick	Physics	Quantum Sensing [E]	<a href="#">Website</a> , email: patrick.maletinsky@
Meyer, Ernst	Physics	High-resolution Probe microscopy imaging and force spectroscopy [E]	<a href="#">Website</a> , email: ernst.meyer@

Poggio, Martino	Physics	Nanomechanics, nanomagnetism, sensitive scanning probe microscopy, sensitive torque magnetometry, nanometer-scale imaging [E]	<a href="#">Website</a> , email: martino.poggio@
Roth, Volker	Mathematics and Computer Science	Machine Learning, Data Analysis, Bio-Medical Applications [T]	<a href="#">Website</a> , email: volker.roth@
Dokmanić, Ivan	Mathematics and Computer Science	Artificial Intelligence for Science [T]	<a href="#">Website</a> , email: ivan.dokmanic@
Giorgetti, Luca	Friedrich Miescher Institute	Chromosome structure and gene expression [E]	<a href="#">Website</a> , email: luca.giorgetti@fmi.ch
Zenke, Friedemann	Friedrich Miescher Institute	Computational neuroscience and machine learning [T]	<a href="#">Website</a> , email: friedemann.zenke@fmi.ch
Boeck, Lucas	Biomedicine	Imaging in pulmonary infection biology [E]	<a href="#">Website</a> , email: lucas.boeck@
Zampieri, Mattia	Biomedicine	Systems biology of metabolism [E]	<a href="#">Website</a> , email: mattia.zampieri@
Bieri, Oliver	Biomedical engineering	Magnetic resonance Imaging [E]	<a href="#">Website</a> , email: oliver.bieri@
Huwlyer, Jörg	Pharmazentrum	Drug delivery and drug targeting. Gene therapy [E]	<a href="#">Website</a> , email: joerg.huwlyer@
Lill, Markus	Pharmazentrum	Computational molecular design [T]	<a href="#">Website</a> , email: markus.lill@
Teufel, Robin	Pharmazentrum	Natural product biosynthesis & structural enzymology [E]	<a href="#">Website</a> , email: robin.teufel@

Further details of the MSc Physics of Life are provided on the website:

<https://www.biozentrum.unibas.ch/msc-physics-of-life>