

Supervisor	Topic / scientific domain	Details	Faculty	Research support contact
Dáša Boháčiková	Bioinformatics in Stem Cell Neurobiology	You will be working in the Neurobiology research group of Dr. Dasa Bohaciakova studying Alzheimer's disease pathogenesis in vitro using a large portfolio of neuronal stem cell-based systems, including 2D neurons and 3D cerebral organoids.	Faculty of Medicine	Dagmar Václaviková
Jan Krivánek	Stem Cells and Developmental Biology	Jan Krivánek's Dental Development and Regeneration Research group focuses on several fundamental aspects of developmental biology and its connection with regenerative medicine. They reveal the mechanisms which stands behind the stem cell niche homeostasis, its activation after injury and processes of differentiation on the cellular and molecular level.	Faculty of Medicine	Dagmar Václaviková
Ondřej Zvěřina	Trace Elements in Foodstuffs and Human Diet	You will be working at Ondrej Zverina's lab at the Department of Public Health, Faculty of Medicine. They focus on trace elements in the environment. The methods they work with include various extractions and digestion, followed by detection using high-resolution GF-AAS or ICP-MS.	Faculty of Medicine	Dagmar Václaviková
Michal Koščik	Health System Efficiency	Michal Koscik is the head of the Department of Public Health with research interest in health policy and health regulation. He is currently the leader of work package on health system efficiency in the EU funded project that aims to establish a national think-tank on Socioeconomic impact of diseases and systemic risks.	Faculty of Medicine	Dagmar Václaviková
Nicola Silva	Chromosome Segregation During Gametogenesis	Dr. Nicola Silva's research group at the Department of biology is interested in studying different aspects of chromosome segregation during gametogenesis, in particular during the formation of the oocytes. They use the non-parasitic nematode <i>Caenorhabditis elegans</i> as a model system, that allows powerful genetic and cytological analyses.	Faculty of Medicine	Dagmar Václaviková
Lukáš Čajánek	Mechanisms and functions of primary cilia	Dr. Lukas Cajánek obtained his Ph.D. from Karolinska Institute in Sweden (lab of Ernest Arenas), where he studied WNT signalling in dopamine neuron differentiation. For a postdoc he joined the lab of Erich Nigg (Biozentrum of University of Basel in Switzerland), where he explored centrosome biogenesis and cillogenesis. In 2015 he came to Brno as SoMoPro fellow to establish his own research lab with access to state-of-the-art methodology and instrumentation (proteomics, gene editing, lentiviral transduction, live imaging and super-resolution microscopy, etc.) to pursue molecular mechanisms and functional aspects of primary cilia in human cells.	Faculty of Medicine	Dagmar Václaviková