



BIOMEDICAL
CENTER



Ph.D. Positions Opening Now

at the Biomedical Center, Faculty of Medicine in Pilsen,
Charles University, Czech Republic



Students for the following Ph.D. study topics are sought in the
doctoral study programme of Experimental Surgery:

Analysis of non-coding RNA as potential biomarkers in patients with solid tumors

Tutor: Karolína Šeborová

Analysis of Tissue Microstructure using Computer Vision Methods

Tutor: Miroslav Jiřík

Modelling of vessel tree in porcine liver based on multi-domain CT scans

Tutor: Miroslav Jiřík

Decellularized porcine vessels as grafts with a great potential

Tutor: Vladimíra Moulisová

DNA damage and DNA repair in mitochondrial DNA

Tutor: Pavel Vodička

Changes in white blood cells in the course of bowel pathologies

Tutor: Pavel Vodička

**Explaining transition from nonmetastatic stage II to metastatic stages III and IV colon cancer through
whole exome sequencing**

Tutor: Filip Ambrozkiewicz

**Explaining transition from nonmetastatic stage II to metastatic stages III and IV colon cancer through
assessment of tumor microenvironment**

Tutor: Andriy Trailin

**Identification of prognostic and predictive molecular biomarkers of solid tumors at the level of DNA, RNA
and in the form of circulating tumor DNA**

Tutor: Radka Václavíková

New therapeutic regimens and molecular basis of their action in experimental models of solid tumors

Tutor: Radka Václavíková

Role of genomics in prognosis and therapy outcome in breast cancer

Tutor: Viktor Hlaváč

Study of the biological significance of non-coding regions of genes using bioinformatics analyses

Tutor: Pavel Dvořák



Application deadline: **November 30, 2024**

More about us: www.liskalab.eu, www.biomedic-plzen.cz, www.lfp.cuni.cz

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