

Studijní obor: Biomedical sciences - Cell and Tissue Morphology
Pracoviště: Ústav histologie a embryologie, Lékařská fakulta, Masarykova univerzita

Školitel: doc. RNDr. Petr Vaňhara, PhD.
Vedoucí pracoviště: doc. MVDr. Aleš Hampl, CSc.

Typ studia: prezenční
Počet stipendijních míst: 1

Title:

Vývoj ex-vivo buněčných modelů pro adenokarcinom pankreatu: markery a cíle pro precizní medicínu
Development of ex-vivo cellular models for pancreatic adenocarcinoma: markers and targets for precision medicine

Annotation

Neoplasms of pancreas, such as pancreatic adenocarcinoma, represent one of the most lethal types of cancer, that kills 95% of patients in less than five years after diagnosis, mostly due to the lack of early symptoms, fast metastasis dissemination and low efficiency of therapy. Despite the recent progress in understanding of etiopathogenesis of pancreatic cancer and its treatment, there is a great need for better individualized models, novel molecular targets, and unbiased predictors of disease progression.

In this PhD project the applicant will pursue the concept of precision medicine using three-dimensional (3D), patient-specific cellular models of pancreatic tumors, and employ them for revealing novel druggable molecular targets and prediction of clinical parameters of individual patients.

The applicant during his/her studies will become familiar with multiple lab techniques including working with various somatic and stem cell models, state-of-the-art visualization techniques (confocal and high-res microscopy, transmission and scanning electron microscopy) and advanced molecular or bioanalytical tools. Student will join an established research team and during her/his studies will have an opportunity to contribute to teaching of medical and life science students.

Požadavky na uchazeče:

Vzdělání: Ukončené magisterské studium (nebo letos plánované obhajoby) se zaměřením na buněčnou, molekulární nebo vývojovou biologii nebo ekvivalent oboru

Jazyky: Master degree in cell, molecular or developmental biology, or equivalent.
Angličtina
English

Ostatní: Schopnost laboratorní práce, schopnost pracovat v týmu motivace pracovat v oblasti tkáňové biologie a inženýrství.

Laboratory skill, teamwork, motivation to do research in tissue biology and engineering

Informace o školiteli:

Aktuální informace o školiteli lze najít na
Supervisor info:

<https://histology.med.muni.cz/petr-vanhara>