

Stimați studenți doctoranzi,

UMFCD, în cadrul Programului Horizon, este partener în proiectul Alliance for Life (A4L) la care participă un număr de 12 universități și instituții de cercetare de prestigiu al țărilor Sud - Est Europene.

Descrierea acestuia și activitățile pe care le derulam le găsiți pe site-ul proiectului (<https://alliance4life.ceitec.cz>).

În cadrul A4L, suntem anunțați că a fost lansat un nou apel pentru cererile de doctorat la Școala Doctorală Life Sciences and Molecular Medicine CEITEC, cu prezentarea programului de studii. Termenul limită pentru aplicații este 28 februarie 2022.

PREZENTARE PROGRAME STUDII



CEITEC PhD School

Study Programs

- Life Sciences
- Biomedical Sciences
- Molecular Medicine**

- 4-year programs
- Above-standard **funding**
- State-of-the-art **core facilities**
- **International and interdisciplinary** environment
- Wide range of topics from **experienced supervisors**
- Coursework in **hard / soft / transferable skills** and **bioinformatics**
- Vibrant **campus life** with many events tailored for PhD students

Information Session for Prospective PhD Students:
20 January 2022 at 13:00 (online)

Call SPRING 2022 starts on 1 December 2021. **Deadline: 28 February 2022**

Life Sciences
Open topic (supervisor)

1. Modelling binding specificities of RBP using Artificial Neural Networks (Panagiotis Alexiou)
2. Characterization of cyclin-dependent kinase 12 (CDK12) substrates and their roles in regulation of transcription and tumorigenesis (Dalibor Blazek)
3. Functions of cyclin-dependent kinase 11 (CDK11) in regulation of gene expression and tumorigenesis (Dalibor Blazek)
4. Structural studies of various states of direct and bridged transcription-translation coupling in vitro and in vivo (Gabriel Doron)
5. RNA as a drug target (Peter Lukavský)
6. Designing modified DNA fragments (Radek Marek)
7. Structure of parallel forms of nucleic acids studied by NMR spectroscopy and molecular modelling (Radek Marek)
8. Regulation of cell migration in B cell leukaemia and lymphomas (Marek Mraz)
9. Lymphoid microenvironment models and their use to study targeted therapy and resistance in B cell malignancies (Marek Mraz)
10. Subcellular trafficking in plant adaptation (Tomáš Nodzyński)
11. Characterization of components of cytokinin metabolism involved in shoot regeneration (Markéta Petrášová)
12. AFM Extension Modules to Study Cell Mechanics and Electrophysiology (Dan Příbyl)
13. The role of the intercellular environment in modulation of biomolecular structure, dynamics and interactions (Lukáš Trnčík)
14. Basic principles of DNA quadruplex folding landscape studied by advanced simulations (Lukáš Trnčík)
15. Structural Biology of Wnt Signalling (Konstantinos Tripathis)
16. Antimicrobial peptides and the role of line tension (Robert Vašcha)
17. Antimicrobial peptides and the role of membrane asymmetry (Robert Vašcha)
18. Role of protein disorder in bacterial transcription (Lukáš Zidek)

Molecular Medicine
Open topic (supervisor)

1. Long non-coding RNAs (lncRNAs) in the pathogenesis of B cell lymphomas (Marek Mraz)
2. Prioritizing drug combinations in leukemia based on analysis of targeted therapy in vivo (Miroslav Boudný)
3. Characterization of cyclin-dependent kinase 12 (CDK12) substrates and their roles in regulation of transcription and tumorigenesis (Dalibor Blazek)
4. Functions of cyclin-dependent kinase 11 (CDK11) in regulation of gene expression and tumorigenesis (Dalibor Blazek)

Life in Brno

BERLIN
WARSAW
VIENNA
MUMBAI
LILLO (Hungary)
ANZAR (India)

"I like the people at CEITEC, my group, the possibilities to attend workshops & trainings, and the accessibility of the Core Facilities"

"There's always something fun going on in the city. You can't get bored in Brno."

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CEITEC MUNI hr

Cu stimă,
Echipa UMFCD - A4L