

OPEN POSTDOC POSITION in Laboratory of Cancer Cell Biology

Project description

Genome instability is one of the hallmarks of cancer. Cell cycle arrest and DNA repair safeguard the integrity of the genome and prevent tumorigenesis. In Laboratory of Cancer Cell Biology, we use molecular/cell biology techniques and animal models to investigate how inherited and acquired defects in the cell cycle checkpoints contribute to tumor development. In particular, we focus on the function of PPM1D and CHK2 that are important regulators of the tumor suppressor p53. The project aims to identify new mechanisms leading to cell transformation and to reveal new vulnerabilities of cancer cells. More details about our lab: www.img.cas.cz/research/libor-macurek/.

Requirements

- Completed PhD in molecular/cell biology/biochemistry or cancer biology
- Deep interest in molecular principles of cellular function
- Good communication skills in English
- Capable of working in a team, but also able to lead own project
- Experience with CRISPR screens, proteomics, 3D tissue culture or mouse work is considered advantage

We offer

- Postdoc position **is available for 2 years** with possible extension. Starting date is flexible
- Position in a young international team with passion in our work and leaving space for your ideas
- State-of-art equipment in core facilities of IMG in Prague
- Employee benefits (meal allowance and kindergarten, 5-week vacation)
- No teaching duties

How to apply

Please email your CV and references to macurek@img.cas.cz.

References

1. Storchova et al., Phosphorylation of TRF2 promotes its interaction with TIN2 and regulates DNA damage response at telomeres. **Nucleic Acids Research** 2023, 51:1154-1172.
2. Martinikova et al., PPM1D activity promotes the replication stress caused by cyclin E1 overexpression. **Molecular Oncology**. 2024; 18:6-20.
3. Burocziova et al. Ppm1d truncating mutations promote the development of genotoxic stress-induced AML. **Leukemia**. 2023; 37:2209-2220.
4. Stolarova et al., ENIGMA CHEK2gether Project: A Comprehensive Study Identifies Functionally Impaired CHEK2 Germline Missense Variants Associated with Increased Breast Cancer Risk. **Clinical Cancer Research**. 2023; 29:3037-3050.
5. Jaiswal et al., ATM/Wip1 activities at chromatin control Plk1 re-activation to determine G2 checkpoint duration. **EMBO J**. 2017; 36:2161-2176.
6. Kleiblova et al. Gain-of-function mutations of PPM1D/Wip1 impair the p53-dependent G1 checkpoint. **J Cell Biol**. 2013; 201:511-21.

Personal data processing

For the purposes of the open competition for this position, the Institute of Molecular Genetics of the Czech Academy of Sciences, ID No. 68378050, residing at Vídeňská 1083, Prague 4 - Krč, Czech Republic, in the role of Administrator shall process personal data provided by you (or obtained from public sources) in accordance with the General Data Protection Regulation (EU) 2016/679. By answering this advertisement, you provide your personal data to the Administrator for the purposes and for the duration of the open competition. In relation to processing your personal data, you have the following rights: (i) to access your personal data, (ii) to have corrected or completed inaccurate or untrue personal data, (iii) to erasure of your personal data if not any longer needed for the purposes for which they have been collected or otherwise processed, or if you find that they have been processed illegally, (iv) to restriction of your personal data processing in special cases, (v) to data transferability, and (vi) to raise a complaint after which processing of your personal data shall be arrested if no serious justified reasons for their processing prevail over your interests or rights and freedoms, in particular, if they are needed for possible exaction of legal claims, and (vii) to address the Office for Personal Data Protection. Additional information on data processing by the Institute of Molecular Genetics of the Czech Academy of Sciences, ID No. 68378050, residing at Vídeňská 1083, Prague 4 - Krč, Czech Republic, can be obtained from Data Protection Officer J. Oliberiusová, JD.