CZ OPENSCREEN
National Infrastructure for Chemical Biology

Staff Scientist – Zebrafish Xenotransplantation and Patient-Derived Tumor Models

The Laboratory of Cell Differentiation and the National Infrastructure for Chemical Biology (CZ-OPENSCREEN) invite applications for a Staff Scientist position focused on zebrafish-based disease modeling in the context of translational cancer research.

Our research integrates developmental biology, in vivo disease modeling, and functional drug testing in zebrafish (Danio rerio), together with patient-derived tumor material. We develop and apply xenotransplantation approaches together with complementary model systems to study tumor behavior, signaling mechanisms, and therapeutic vulnerabilities.

The successful candidate will contribute to the development and application of patient-relevant experimental models in a collaborative, multidisciplinary research environment that supports basic and translational biomedical research.

Responsibilities

- Development and application of zebrafish disease and xenotransplantation models
- Tumor cell and tissue transplantation into zebrafish embryos and larvae
- Implementation of patient-derived xenograft and xenotransplantation approaches
- Functional drug response testing using patient-derived material
- High-content and confocal imaging and quantitative phenotype analysis
- Integration of imaging and sequencing datasets
- Participation in collaborative research and supervision of junior researchers

Requirements

- PhD in cancer biology, developmental biology, molecular biology, or a related biomedical field
- Strong interest in in vivo disease modeling and translational cancer research
- Experience with transplantation models, xenografts, or tumor biology is highly desirable

- Experience with zebrafish models is an advantage, but a strong motivation to learn is welcome
- Experience with patient-derived material or translational research is an advantage
- Strong quantitative thinking and data interpretation skills
- Ability to work independently while contributing to collaborative team science
- Excellent communication skills and proficiency in English

We offer

- Highly collaborative, international research environment with strong connections to European research infrastructures and translational research networks
- Access to state-of-the-art imaging, genomics, and high-throughput screening core facilities
- Strong support for scientific and career development within interdisciplinary and translational research programs
- Competitive salary based on experience
- Initial contract for 1 year with the possibility of extension up to 5 years
- 6 weeks of paid vacation
- Access to on-campus sports facilities

How to apply

Candidates should submit a cover letter outlining research interests and suitability for the position, a structured CV, and a list of publications.

Applications should be sent to:
osvoboda@img.cas.cz
bartunek@img.cas.cz

cc: natalija.romanyuk@img.cas.cz

Application deadline: 15 March 2026

For more information, visit www.openscreen.cz and www.img.cas.cz/group/petr-bartunek.

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.