

Postdoctoral scientist in Cell Biology

Institute of Parasitology, Biology Centre, Czech Academy of Sciences

I am looking for a cell biology scientist to setup experiments, analyse and validate obtained data using functional "omics" approach in a particular parasitic nematode cell model, with the aim to characterise cell's cycle stage and genome repair mechanisms. You will use in-house available genome data of the nematode, as well as transcriptomic data obtained from the particular cell. The cell is robust and easy to manage *in vitro* conditions. Molecular data should be integrated with fluorescence, confocal and high-resolution microscopy available at the affiliation, and validated with mRNA silencing or gene editing. The topic is novel and not being explored before, guaranteeing publication in highly impacted journals. More information can be obtained during the interview. The position is funded by the Institute of Parasitology for the next 2 years, with possible extension through national and EU grants.

Requirements and desired qualifications

- PhD in biology, medicine, veterinary medicine or similar, with experience in cell biology, DNA repair mechanisms and/or cell cycle (not predating 2017)
- Experience in data analysis of transcriptomics, proteomics, metabolomics
- Experience in work with primary cell cultures and standard cell lines
- Experience in optimisation, setup and validation of protocols
- Experience in standard microscopy techniques (fluorescence, confocal, electron microscopy)
- Ability to work in a team and pursue goals in a focussed way
- Excellent written/oral communication skills and a high-quality publishing track-record

Host institution and laboratories

The laboratory of Functional Helminthology is recently established laboratory within the Institute of Parasitology that seeks highly motivated, creative and out-of-box-thinking individuals. The primary research focus is the interaction between nematodes and their different hosts types (paratenic, accidental, final hosts) guided by nematode's excretory and secretory products, as well as development of nematode primary cell cultures for modelling of these interactions. The model parasite is the zoonotic nematode *Anisakis pegreffii*. The laboratory operates on a truly multi-disciplinary basis and involves cell culture, functional genomics and proteomics, structural analysis, bioinformatics and physiology. It has the access to cutting edge electron microscopy and proteomic facility. The Institute of Parasitology is one of the largest European centres of parasitological research and provides all state-of-the-art facilities required to undertake a multi-disciplinary repertoire of methods, enabling studies on host-parasite interactions at the organismal, cellular and molecular level. The institute is located in České Budějovice, the capital city of South Bohemia known for its original Budweiser (Budvar) beer. The historical city is surrounded by other beautiful towns including the UNESCO heritage site Český Krumlov and Hlášovice, and the pristine nature of the Bohemian Forest National Park.

We offer

This is an opportunity for a cell biology scientist to join exciting project in an inspiring and dynamic setting. We offer a monthly gross salary of EUR 1.300 and a great work environment for passionate scientists. The contract will initially be limited to 1 years, starting October 2021.

Application details

The Biology Centre of the Czech Academy of Sciences is a holder of the HR Excellence in Research Award and aims to promote equality of opportunity for all with the right mix of talent, competences and potential. We welcome applications from candidates with diverse backgrounds. Qualified applicants should submit a cover letter stating in one page their prior research tasks and skills, curriculum vitae, at least 4 contacts of reliable referees with whom they worked since their PhD, list of publications and copy of PhD diploma, via the webpage <https://jobs.bc.cas.cz/en/detail/72>, by 1st September 2021. For more details contact Ivona Mladineo (ivona.mladineo@paru.cas.cz).

