



PhD position in Molecular Parasitology

Laboratory of RNA Biology of Protists, Ceske Budejovice, Czech Republic

Our group studies various aspects of RNA biology of protozoan parasite *Trypanosoma brucei* and related flagellates. In these early evolved unicellular organisms gene expression is regulated mostly post-transcriptionally. Consequently, post-transcriptional processing of RNA is of a great importance in order to regulate the complex life cycles of these pathogens. Research in our group focuses on processes such as tRNA maturation, nuclear export/import and tRNA modifications in trypanosomes, but also stop codon reassignment. Our long term goal is the identification of unique RNA metabolism. We believe these novel mechanisms can result in applications in RNA therapies for human genetic diseases caused by the occurrence of premature termination codons.

<http://www.paru.cas.cz/en/section/molecular-parasitology/laboratory-of-rna-biology-of-protists/>

Requirements

- M.Sc. degree in molecular biology, biochemistry, or similar
- strong interest in basic research and experimental work
- hands on experience in molecular biology laboratory techniques
- Independent and critical thinking
- English at B2 level, written and spoken
- Experience with cell culture, RNA work, or bioinformatic skills are an advantage, not requirement

What we offer

- Exciting research project, follow up on our recent discovery (Kachale *et al.*, Nature, 2023)
- International and supportive environment
- Research stays in our collaborating laboratories in the EU or USA

Location

The internationally recognized Institute of Parasitology at the Biology Centre, Czech Academy of Sciences is dedicated to performing research on human and animal parasites at the organismal, cellular and molecular levels. The institute is located on a university campus in the historic town České Budějovice, which offers many cultural and recreational activities in addition to its close proximity to the capital Prague (2hrs) and to the wonderful Czech scenery and the Austrian Alps.

How to apply

Interested candidates should apply by submitting the following documents and information to Dr. Zdenek Paris: parda@paru.cas.cz. Apply before 12 May 2023

- Curriculum Vitae (CV)
- List of 1-2 referees that can testify about the professional qualities of the candidate
- Letter of intent that explains the reasons for your interest in our laboratory and identifies your most relevant skills or experiences.

