



Přírodovědecká
fakulta
Faculty
of Science

Jihočeská univerzita
v Českých Budějovicích
University of South Bohemia
in České Budějovice

We are a research campus with a strong tradition in biosciences focused on complex ecological, evolutionary & developmental aspects of LIFE.

Laboratory of Chromosomics, Faculty of Science, University of South Bohemia in České Budějovice is looking for excellent & highly motivated candidates for a

PhD position

who will investigate

Mechanistic basis and evolution of meiotic idiosyncrasies in moths and butterflies (Lepidoptera)

as a part of a project newly funded by the Czech Science Foundation. The project will investigate holocentric chromosomes and variation in kinetochore coverage in Lepidoptera along with their meiosis and its modifications including female achiasmatic meiosis, male recombination landscape, and inverted meiosis. Anticipated methodologies include immunostaining, ChIP, Oligopaint FISH, and whole genome and single cell RNA sequencing.

The Laboratory of Chromosomics combines cytogenetic and genomic approaches to study drivers of karyotype and sex chromosome evolution. It is a part of the Department of Molecular Biology and Genetics which provide a vibrant scientific environment due to its close collaboration with research institutes of Biology Center of Czech Academy of Sciences.

The Faculty of Science represents an equal opportunity employer as certified by the European Commission's HR Excellence in Research Award.

This position will provide

- study in the new **Integrative biology PhD program**
- the **PhD position funded** by salary from the project for three years combined with a scholarship for four years
- support for career development and mentoring
- international team and collaborators with opportunities to travel (conferences and research internship abroad are mandatory part of the PhD curriculum)
- flexible working time, 5 weeks of vacation, full health insurance, student benefits
- a meal allowance, a discounted mobile tariff with a contract operator, and university kindergarten
- administrative support with relocation & settling in the Czech Republic

- work-life balance in a middle-sized university city offering low cost of living and high quality of life

Requirements

- Master degree in relevant field of Life Sciences or Bioinformatics
- strong interest in the research question
- flexibility, and the ability to work both independently and in a team are essential
- fluency in English
- skills and experience we are looking for include:
 - experience in using molecular cytogenetic and/or standard molecular biology techniques
 - experience with next generation sequencing and data analysis is highly appreciated
 - knowledge of widefield and confocal fluorescent microscopy and image data analysis is a plus but not required.

How to apply

To apply please submit your **application** via e-mail to jobs@prf.jcu.cz by **January 6, 2023**.

The application should be sent as a single pdf-document and include:

- CV
- a letter detailing your motivation to apply with a concise summary of your previous research activities
- contact information of one referee

Informal inquiries are welcome. For further information, please contact the principal investigator **Petr Nguyen** (petr.nguyen@prf.jcu.cz).

Please note that the selected candidate will also need to submit an application for admission as a graduate student. Formal applications for entry to the graduate programme are due January 20, 2023.

For more information, please visit the following websites:

Laboratory of Chromosomics:

<https://web.prf.jcu.cz/en/kmb/research/research-groups/laboratory-of-molecular-cytogenetics.html>

Petr Nguyen, principal investigator:

<https://orcid.org/0000-0003-1395-4287>

<https://web.prf.jcu.cz/en/kmb/people/faculty-and-stuff/rndr.-petr-nguyen-ph.d..html>

The Integrative Biology graduate programme:

<https://www.prf.jcu.cz/en/faculty/departments/department-of-molecular-biology-and-genetics/for-students?view=article&id=1354&catid=10>

České Budějovice:

<https://www.budejce.cz/en/>