

## **Two-year postdoc position: Phylogenomics & population genomics**

Laboratory of Molecular Ecology and Evolution (Biology Centre, Czech Academy of Sciences and University of South Bohemia, Czechia) has funding for a Junior Researcher (postdoc) in the fields of phylogenomics & population genomics.

We are looking for an independent junior researcher with interest in evolutionary biology and strong background in bioinformatics and analyses of phylogenetic and population genetic data. Knowledge of Linux/unix and experience with scripting & programming languages (Python, R) and phylogenetic inference using WG data is necessary. Experience with population genomic and genome assembly and annotation pipelines is beneficial. A good publication record is important. The applicant should be able to coordinate a team of 2-3 students and have well-developed communication skills.

### **Job description:**

This research position will include (mainly drylab) work on two grant funded projects:

- 1) Phylogenomics (and species diversity survey) of Dicyemida, an enigmatic group of parasites from cephalopods (60% job time allocation).
- 2) Population genomics of adaptation in parasites. The project studies an interaction between host specificity, genomic differentiation and adaptation in a freshwater parasite (*Ligula intestinalis*) (40% job time allocation).

On the 1<sup>st</sup> project, the postdoc will be responsible for designing the research strategy (amplicon sequencing design for species diversity survey, selection of tools for extracting data from wg datasets) and for analyses of obtained data (transcriptome assemblies, amplicon assemblies, mining and filtering genes into matrices, phylogenetic reconstruction).

On the 2<sup>nd</sup> project, the postdoc will provide an assistance with analyses of population level NGS data (whole genome re-sequencing data, RADseq, SNP calling, demographic inference, analysis of selection, etc.).

The postdoc will co-supervise one phd student and will be free to supervise undergrad students if desired (a valuable experience). There is an opportunity to take part in teaching, in field collecting trips and in other popgen projects running in the laboratory (incl. publication output).

### **We offer:**

We are a relatively young but quickly developing laboratory with interests in evolutionary and ecological interactions between organisms and their environment. We use genetic (increasingly more genomic) data to answer the questions (e.g. <https://youtu.be/xvHSjEi0c44?t=7051>).

We have advanced computing resources available both in-house (> 300 nodes) and via a connection to the national grid (> 20,000 CPUs). The lab collaborates with institutions/labs abroad (e.g. University of Alabama [Kocot lab], University of Illinois [Catchen lab], University of Saskatchewan & Cornell [J.A.Andres]) and we co-organise the biennial Workshop on Population and Speciation Genomics (<http://evomics.org/2020-workshop-on-genomics-cesky-krumlov-czech-republic/>).

Biology Centre is a dynamic institution with strong international community of junior researchers and an "HR Excellence in Research" awarded institution. It is located in the centre of a university campus. English is the working language at the institution. The city of Ceske Budejovice is a charming historical city, has great outdoors nearby and it is located within easy reach of the capital, Prague, and several cities abroad (Vienna, Linz, Passau).

Funding is guaranteed for 1 year, with extension for another year, based on performance. Salary is 30% above the Czech average income, it is sufficient to cover all necessary living costs with a margin (Czechia is a developed, yet relatively cheap country to live in). Biology Centre offers multiple employee benefits (fully covered health insurance, subsidised lunches, cultural/health programmes, etc.).

In case of questions, enquire using the contact info below.

**Applications:**

Applications should be prepared as a single pdf containing:

a CV (with publication list)

a detailed statement of research interests

names and contact information for 3 references.

Applications are welcome before 29 Feb. 2020, sent by email to Associate Prof. Jan Štefka at [jan.stefka@gmail.com](mailto:jan.stefka@gmail.com). Prospective candidates will be interviewed in mid March.

The position can be filled starting 1 April 2020, but will remain open until a suitable candidate has been found.

Jan Štefka, PhD

Laboratory of Molecular Ecology and Evolution

Institute of Parasitology, Biology Centre, Czech Academy of Sciences

Branisovska 31, Ceske Budejovice, CZ

<https://www.paru.cas.cz/en/>

<http://jstefka.info>