

## **PhD student - Laboratory of Gene Expression**

Laboratory of Gene Expression of the Institute of Biotechnology of the Czech Academy of Sciences located in the BIOCEV research centre in Vestec by Prague announces an open competition in accordance with the Act No. 283/1992 Coll. on the Czech Academy of Sciences, and the Statutes of the Czech Academy of Sciences for PhD student positions to work on innovative projects in the field of single-cell transcriptomics.

### **We offer three PhD positions:**

- o Single-cell profiling of glial cells in the progression of amyotrophic lateral sclerosis
- o Transcriptome analysis of acute injuries of the central nervous system
- o Single-cell transcriptomic analysis of Alexander disease

The successful candidate will be responsible for complete gene expression analysis, including sample preparation, quality control, RT-qPCR and RNA-Seq profiling with single-cell resolution and data analysis. The candidate should have good background in genetics, molecular and cell biology. Basic knowledge or interest in scientific programming (e.g. R, Python, Unix) is advantageous. Previous experience in neurobiology or gene expression analysis using RT-qPCR or RNA-Seq are appreciated, although not necessary. As the project will be performed in collaboration, good communication skills, willingness to learn, and proactive attitude are absolutely mandatory. The positions are suitable for wet-lab as well as dry-lab scientists; based on candidate's preferences (the interdisciplinary skills are welcomed).

### **Who are we:**

The Laboratory of Gene Expression (<https://www.labgenexp.eu/>) is a well-funded research laboratory with an excellent publication track record, comprised of researchers with unique scientific expertise. We focus on gene expression studies using a combination of up-to date techniques such as single cell expression profiling and next-generation sequencing. We have research projects in the field of neurobiology and we are involved in the development of methods for nucleic acids analyses.

### **Requirements:**

Willingness to work in a team of enthusiastic and friendly colleagues  
Education in the area of cellular/molecular biology, biochemistry or computational science  
Interest in scientific work and its biomedical aspects  
Good communication skills, willingness to learn, and proactive attitude

### **We offer:**

Participation in highly innovative, very interesting research  
Friendly and supportive environment  
Secured financing  
Possibility to work with cutting-edge techniques  
Good opportunities for publications  
Part-time position with remuneration on top of the standard scholarship  
Scientific growth and follow-up career, including participation at international conferences

**Location:**

The laboratory is located in the new state-of-the-art BIOCEV research center (biocev.eu)

**Deadline for applications: 31. 3. 2020**

Interested applicants please contact Dr. Lukas Valihrach (lukas.valihrach@ibt.cas.cz) or Prof. Mikael Kubista (mikael.kubista@ibt.cas.cz) and include their CV, cover letter describing their background and research interests and two contacts for reference.

*We hereby inform you that the Institute of Biotechnology of the Czech Academy of Sciences shall process your personal data only to the extent for the purposes of selection of a suitable employee and closure of a contract of employment in accordance with the General Data Protection Regulation 2016/679 (GDPR).*

*More details on the processing of personal data of an applicant for open position are available at web site: <http://www.ibt.cas.cz/o-ustavu/GDPR.html>.*