

Institute of Biotechnology of the Czech Academy of Sciences 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 a position:

Postdoctoral researcher in single-cell and spatial transcriptomics

in the **GliaOmics** Lab, located at the Institute of Biotechnology in BIOCEV campus. We are a research group focused on understanding the molecular and cellular mechanisms of glial cell involvement in neurological diseases, particularly **stroke**. Our research integrates cutting-edge **single-cell and spatial transcriptomic technologies**, advanced data analysis, and validation methods. Our goal is to advance the understanding of neurological disorders and contribute to the development of novel glial-oriented therapeutic strategies. More details about the laboratory are at: ibt.cas.cz/en/Glia-Omics-Lab.

Job description:

The position is part of a funded project focused on creating a **cellular and molecular atlas of the human brain after ischemic stroke** using spatial and single-nucleus RNA sequencing, multi-omics integration, and computational modeling. You will generate and analyze transcriptomic data from post-mortem stroke tissue using advanced omics platforms, contribute to data integration and interpretation, assist with manuscript and grant writing, mentor junior researchers, and present findings at scientific meetings.

Requirements:

- PhD in molecular biology, neuroscience, bioinformatics, or a related field
- Strong background in transcriptomics and neurobiology
- Demonstrated experience with single-cell or spatial omics data analysis
- Excellent communication and organizational skills
- Ability to work independently and as part of a collaborative team
- Proficiency in English, both written and spoken

We offer:

- Full-time position in a stable and supportive institution
- Work in an international and collaborative environment
- Involvement in a cutting-edge research project
- Competitive salary, 5 weeks of vacation, and meal allowance
- A chance to grow and develop professionally

Institute and workplace location:

The Institute of Biotechnology (IBT, ibt.cas.cz) is a leading research center located in the BIOCEV science and biotechnology campus (biocev.eu), located at the outskirts of Prague, ~30 minutes from the city center by public transport. BIOCEV hosts over 500 researchers across various disciplines and provides access to state-of-the-art core facilities including genomics, imaging, animal research, and computational resources.

Application deadline: Open until filled

Starting date: Negotiable

Contract duration: 2 years with the possibility of extension

For more information, please contact: Lukas Valihrach (lukas.valihrach@ibt.cas.cz)

To apply, please send your: motivation letter, CV and contact for at least 2 referees to hr@ibt.cas.cz

More details on the processing of personal data are available on the website:

<https://www.ibt.cas.cz/cs/o-ustavu/oficialni-dokumenty/qdpr/>.