POSTDOCTORAL FELLOWSHIP OPPORTUNITY

MSCA Postdoctoral Fellowship & EMBO Postdoctoral Fellowship

Postdoctoral Bioinformatician / Computational Biologist (m/f/d)

> **Laboratory of Neuroepigenetics**
> Institute of Physiology of the Czech Academy of Sciences, Prague

About the Position

We are seeking a highly motivated postdoctoral researcher with strong computational and bioinformatics expertise to join our newly established **Laboratory of Neuroepigenetics**. The successful candidate will lead computational analyses of large-scale transcriptomic datasets investigating the molecular mechanisms underlying psychiatric and neurodegenerative disorders.

The selected candidate will be supported to apply for a **Marie Skłodowska-Curie Postdoctoral Fellowship (MSCA PF)** and/or an **EMBO Postdoctoral Fellowship**, with full institutional support for proposal preparation.

Research Focus

Our laboratory investigates the roles of non-coding RNAs and epigenetic modifications in brain disorders, with primary focus on Alzheimer's Disease, Schizophrenia, and stress-related psychiatric conditions. We integrate cutting-edge transcriptomics, functional genomics, and disease modeling to bridge molecular alterations with disease phenotypes, paving the way for novel RNA-based therapeutic interventions. More about our work: fgu.cas.cz/neuroepigenetics

Key Responsibilities

- Develop and implement computational pipelines for transcriptomic data analysis
- Perform integrative multi-omics analyses and network-based approaches
- Collaborate with experimental colleagues on target validation studies
- Prepare scientific publications and contribute to grant applications
- Present findings at international conferences

What We Are Looking For

- PhD in bioinformatics, computational biology, genomics, or related discipline
- Strong programming skills in Python and/or R
- Experience with RNA-seq data analysis and statistical methods
- Track record of peer-reviewed publications
- Good communication skills in English

Experience with small RNA sequencing, network analysis, multi-omics integration, or high-performance computing is a plus.

What We Offer

- Guidance for fellowship applications, including basic support with proposal structure, requirements, and feedback on key sections
- Support in project management primarily through mentoring, and individual consultation
- Competitive MSCA allowance or EMBO stipend upon successful funding
- Access to high-quality, unique datasets from established psychiatric and dementia cohorts
- Interdisciplinary research environment at the Bio-Medical Campus with strong international collaborations
- Opportunities for career development, conference attendance, and independent project development
- Employee benefits: 5 weeks vacation + 3 sick days, Multisport/Edenred, on-site gym and squash court, parking, bike storage, and access to on-site kindergarten

Eligibility

MSCA Postdoctoral Fellowship: PhD awarded by call deadline (September 2026); no more than 8 years of postdoctoral experience; must not have resided in Czech Republic for more than 12 months in the past 36 months.

EMBO Postdoctoral Fellowship: PhD awarded by application deadline; no more than 2 years of postdoctoral experience; must not have resided in Czech Republic for more than 12 months in the past 36 months.

The position is contingent on successful fellowship award. Applicants of any nationality are welcome.

Timeline

Applications will be accepted until the position is filled. The MSCA PF deadline is September 2026; EMBO Postdoctoral Fellowship deadlines are in January and July each year. Early contact is encouraged to allow time for joint proposal development.

How to Apply

Please send your CV (with publication list), a brief statement of research interests (max 2 pages), and contact details for 2–3 references to **personalni@fgu.cas.cz**.

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The Institute of Physiology of the Czech Academy of Sciences is an equal opportunity employer.