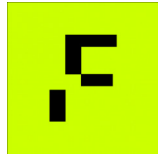


**Freie Universität Berlin - Fachbereich Biologie, Chemie, Pharmazie -
Fachbereichsbibliothek Biologie, Chemie, Pharmazie AG Sigrist Institut
für Biologie**



Research assistant (postdoc) (m/f/d)

full-time job limited to 2 years salary grade (Entgeltgruppe) 13 TV-L FU reference code:
SynProtect_Postdoc_2025

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet auf 2
Jahre; Remuneration: Entgeltgruppe 13 TV-L FU; Reference
number: SynProtect_Postdoc_2025; Closing date: 01/12/25

Working field

The Sigrist Lab at the Institute of Biology, Freie Universität Berlin, invites applications for a Postdoctoral Researcher position within the ERC-funded project SynProtect. The project investigates how neurons maintain both flexibility and stability - how synapses adapt to experience and stress while preserving precise communication under conditions such as sleep deprivation or aging.

Our research focuses on molecular and biophysical mechanisms of presynaptic plasticity, in particular how the Rab-GTPase regulator Blobby and aPKC/Par-1 kinase signaling jointly control the organization and remodeling of the active zone (AZ) via phase separation and endomembrane interactions. By combining molecular, imaging, and behavioral approaches, we aim to link synaptic remodeling with sleep and resilience at the organismal level.

We offer a stimulating and international research environment, access to state-of-the-art microscopy, proteomics, and behavioral platforms, and integration into the vibrant Berlin neuroscience community.

Job description:

- Conduct molecular and biochemical analyses of synaptic proteins (purification, phosphorylation dynamics, condensate assays)
- Apply Drosophila genetics and advanced microscopy for studying presynaptic plasticity
- Contribute to behavioral assays (sleep, stress resilience)
- Collaborate within the ERC project and with partner laboratories

Requirements

Requirements:

- completed academic university studies (Masters/Diploma) and
- PhD in Molecular Neuroscience, Biochemistry, or a related discipline

(Professional) Experience:

- Proven expertise in Drosophila neurogenetics (mandatory)
- Strong background in protein biochemistry and synaptic biology

Desirable:

- Experience in advanced imaging, EM, or behavioral analysis is advantageous
- High motivation, independence, and interest in conceptual neurobiology

Application

Applications should be sent by e-mail, together with significant documents, indicating the **reference code, no later than December 1st , 2025** in PDF format (preferably as one document) to Prof. Dr. Stephan Sigrist: stephan.sigrist@fu-berlin.de or postal to

Freie Universität Berlin
Fachbereich Biologie, Chemie, Pharmazie
Fachbereichsbibliothek Biologie, Chemie, Pharmazie
AG Sigrist Institut für Biologie
Prof. Dr. Stephan Sigrist
Takustr. 6
14195 Berlin (Dahlem)

With an electronic application, you acknowledge that FU Berlin saves and processes your data. FU Berlin cannot guarantee the security of your personal data if you send your application over an unencrypted connection.

Freie Universität Berlin is an equal opportunity employer.

More information at <https://stellenticket.de/199325/BUA/>
Offer visible until 01/12/25

