



Postdoc position to investigate the mechanisms of Alzheimer's disease and drug design

The Loschmidt Laboratories of protein engineering (<https://loschmidt.chemi.muni.cz/peg/>) are a vibrant environment where key issues related to protein science and molecular design are tackled. Within the frame of a collaborative multidisciplinary research network, we are currently looking for a highly skilled and motivated postdoc to join our structural biology team to investigate the molecular mechanisms of Alzheimer's pathology.

Project description

We will investigate the molecular structures and functions of proteins associated with Alzheimer's disease and how newly discovered small-molecule therapeutics can correct their malfunction. The candidate will use molecular biology, biochemistry and structural biology methods such as X-ray crystallography, cryo-electron microscopy/tomography to unravel the molecular principles of amyloid- β oligomers formation.

Candidate profile

- Ph.D. in molecular biology, biochemistry, structural biology, biophysics or equivalent
- Previous experience with structural biology (crystallography or cryo-EM) appreciated
- Critical mindset, fast learner and team player
- Ability to lead a multidisciplinary project with partners in academia and industry
- Good mastery of English language

Offer

- A stimulating, diverse, international and exceptionally strong research environment
- Opportunity to work with an excellent protein engineering team
- Opportunity to learn state of the art technologies (Talos Artica, Titan Krios, Swiss Light Source)
- Financial support is available for at least 3 years
- The successful candidate is encouraged to obtain a personal fellowship (Marie-Curie, EMBO)

How to apply?

Provide a detailed CV, two letters of recommendation, a motivation letter describing research interests and previous research experience and a list of publications. The application shall be submitted online via an e-application. Please, use the link here: <https://www.muni.cz/en/about-us/careers/vacancies/65999>. After submitting your application successfully, you will receive an automatic confirmation email from jobs.muni.cz.

Selected publications

Nature Communications 12: 3616 (2021)

Chemical Science 11: 11162-11178 (2020)

ACS Catalysis 10: 1210-1223 (2020)

Chem 7: 1-14 (2021)

ACS Catalysis 9: 4810-4823 (2019)

J. Am. Chem. Soc. 140: 17999 (2018)

