**Position:** Postdoctoral Researchin the **OPUS NCN** grant DEC-2023/49/B/NZ5/01976/R, **title** ‘Translation-related pathway and activated retrotransposons underlying the neurodegenerative disease ALS related to mutations in the FUS gene’

**Affiliation:** Adam Mickiewicz University in Poznan

**PI**: Assoc. Prof. Dr. Katarzyna Dorota Raczyńska, PhD

**Conditions of employment:** Salary ~140 000,00 PLN brutto per year, maximum employment 45 months.

**Requirements and qualifications:**

* Ph.D. in biology, biotechnology, bioinformatics, or another field of study in the group of natural sciences
* Experience in performing experiments in the field of molecular biology, especially: RNA, proteins, and RNA:protein interactions
* An additional advantage will be the knowledge of bioinformatics techniques required for the analysis of high-throughput data
* fluency in spoken and written English.

**The aim:** to elucidate the molecular pathomechanism of the neurodegenerative disease amyotrophic lateral sclerosis (ALS) related to a mutation in the *FUS* gene.

**Analyses** based on previous observations in cell models with FUS mutants are related to altered levels of snoRNAs that corresponded to altered percentage of methylation and pseudouridylation of rRNAs at the appropriate positions. Such changes can influence ribosome heterogeneity and may represent a new translation-related mechanism of ALS progression that will be further analyzed (Gawade et al., 2023, Sci Rep).

**Model**: iPSCs reprogrammed from fibroblasts derived from ALS patients with FUS mutations and their isogenic controls, further differentiated into neural progenitor cells (NPSs), motor neurons (MNs), astrocytes, and glial cells. In addition, separated MN somas (cell bodies) and MN axons will be used.

**Research**: iPCS differentiation to different cell types; total and small RNA-seq (Illumina, Nanopore), RiboMeth-seq, HydraPsiSeq; global translation efficiency analysis, polysome profiling, Ribo-seq, cell proteome and ribosome composition analysis.

**Required documents:**

* CV containing previous scientific achievements
* A cover letter containing a summary of experience and future interests
* Contact details of 2 supervisor(s)
* Signed consent clause

Candidates must meet the requirements according to the employment regulations for the position of assistant for the OPUS 25 call: <https://www.ncn.gov.pl/sites/default/files/pliki/uchwaly-rady/2023/uchwala32_2023-zal1.pdf>. The candidates will be selected through an open competition.

**Please submit the documents electronically to the email address:** **doracz@amu.edu.pl** by **31.08.2024 with the subject “postdoc OPUS”**.

**Information clause for jobseekers**

Pursuant to Article 13 of Regulation (EU) No. 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and on the free movement of such data and repealing Directive 95/46/EC - General Regulation on data protection (Official Journal of the European Union L 119/1 of 04.05.2016) I hereby inform you that.

1. The Controller of your personal data is Adam Mickiewicz University in Poznań with its registered office at 1, Henryka Wieniawskiego Street, 61-712 Poznań.

2. The controller of personal data has appointed a Data Protection Inspector to supervise the correctness of personal data processing, who can be contacted via e-mail address: iod@amu.edu.pl.

3. The purpose of the processing of your personal data is to carry out the recruitment process for the indicated position.

4. The legal basis for the processing of your personal data is Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 and the Labour Code of 26 June 1974 (Journal of Laws of 1998, N21, item 94, as amended).

5. Your personal data will be stored for a period of 6 months from the end of the recruitment process.

6. Your personal data will not be made available to other entities, except for entities authorized by law. Access to your data will be granted to persons authorized by the Controller to process them within the scope of their professional duties.

7. You have the right to access your data and, subject to the provisions of law, the right to rectify, delete, restrict the processing, the right to transfer data, the right to object to the processing, the right to withdraw consent at any time.

8. You have the right to lodge a complaint to the supervisory authority - the President of the Office for Personal Data Protection, ul. Stawki 2, 00-193 Warszawa.

9. Provision of personal data is obligatory on the basis of legal regulations, in the remaining scope it is voluntary.

10. With regard to your personal data, decisions will not be taken automatically, in accordance with Article 22 RODO.

Consent clause

In accordance with Article 6(1)(a) of the General Data Protection Regulation of 27 April 2016 (Journal of Laws of the EU L 119/1 of 4 May 2016) I agree to the processing of personal data other than those indicated in Article 221 of the Labour Code (name(s) and surname; parents' names; date of birth; place of residence; address for correspondence; education; previous employment), included in my job offer for the purpose of current recruitment.

date and signature