



ADAM MICKIEWICZ UNIVERSITY IN POZNAŃ

Faculty of Biology

Institute of Molecular Biology and Biotechnology

Assistance Professor in Molecular Biology

The Position of Assistance Professor is available in Department of Gene Expression of Adam Mickiewicz University which is the largest institution of higher education in Poznan and one of the largest and best institutions of higher education in Poland.

Qualifications

The successful candidate must have a Ph.D. degree in molecular biology, biochemistry, computational biology or related life science field, love and enthusiasm for science, ability to work independently as well as collaboratively, strong organizational and communication skills, and a record of productive research. Experience in human molecular genetics, molecular and cellular biology, and statistics are highly desirable. This position is ideally suited for a candidate who is primarily trained in experiments with mouse models (behavioral examination, immunohistochemical and immunocytochemical techniques, in vivo delivery of nucleic acids). Also, candidate should have experience of a combination of other techniques: DNA cloning, in vitro assays, RT-PCR, real-time PCR, northern blot and all types of electrophoresis, western blot, immuno-affinity pull downs. Individuals will be expected to participate in the preparation of manuscripts and grant proposals. Applicant should have proven record of productivity and publications in high-impact journals.

Job type

Employment contract: full-time

Salary

5 000 PLN per month (about 1 300 USD) + health insurance. No housing or transportation will be provided. Relocation assistance for this position is not available.

How to Apply

The applicants can send a letter summarizing previous work experience and future interests, a resume (professional CV), and contact information for two professional references to: Krzysztof Sobczak, PhD, Institute of Molecular Biology and Biotechnology, Faculty of Biology, Adam Mickiewicz University, Umultowska 89, 61-614 Poznan, POLAND; Phone: +48 61 829 5957; e-mail: ksobczak@amu.edu.pl.

Deadline

31th of March 2019

Please include in your offer: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process under the Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of natural persons with regard to the processing of personal data and on the free movement of such data, and repealing Directive 95/46/EC (General Data Protection Regulation)".



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Responsibilities

A highly motivated researcher is sought to join the human molecular genetic research team under the supervision of Prof. UAM dr hab. Krzysztof Sobczak. We focus on studying the molecular pathomechanism and experimental therapy of hereditary neuro-muscular disease, myotonic dystrophy.

Myotonic dystrophy type 1 (DM1) is an RNA dominant disorder caused by expansion of a CTG repeat in the 3'-UTR of the DMPK gene. The DMPK transcripts containing highly expanded CUG repeats (CUG^{exp}) are retained in the nucleus in discrete foci. Their nuclear retention is partly a function of the interaction of CUG^{exp} RNA with poly(CUG) binding proteins, such as, splicing factors in the Muscleblind-like (MBNL) family. The pathogenic effects of CUG^{exp} RNA are due in part to sequestration of MBNL proteins, which results in misregulated alternative splicing that these proteins normally regulate.

In our research we focus on deeper understanding of some aspects of molecular pathomechanism of DM, especially associated with miRNA metabolism and MBNL function, as well as application of antisense oligomers to disrupt pathogenic interaction of CUG^{exp} with protein in vivo.

A broad range of experimental methods are employed, including microarray hybridization, next generation sequencing, fluorescence in situ hybridization; DNA/RNA purification, cloning, genotyping, sequencing and hybridization; protein immunoblots, immunoprecipitation, and immunohistochemistry; tissue culture, transfection and transduction of cells, and experiments with mouse models.