



Institute of Biochemistry and Biophysics PAS, Laboratory of
Transcription Mechanisms is opening a call for a position of a
postdoctoral researcher

The Laboratory of Transcription Mechanisms headed by Dr. Tomasz Turowski is looking for a **postdoctoral researcher**. You will join the project entitled **“Molecular mechanisms linking RNA polymerase III mutations to Hypomyelinating leukodystrophy”** funded by the National Science Centre Sonata grant No UMO-2020/39/D/NZ2/02115.

In this project we investigate the molecular mechanisms of mutations in RNA polymerase III (RNAPIII), producing tRNAs. RNAPIII mutations underlie a group of rare inherited diseases called RNAPIII-related leukodystrophy associated with loss of myelination, or Hypomyelinating leukodystrophy (HLD). HLD is a disorder that affects the nervous system and involves abnormalities in white matter in brain. White matter consists of nerve cells (neurons) covered by a fatty (lipid) substance called myelin, which is essential for proper brain functioning.

This project aims to provide answer to how mutations in fundamental machinery of RNA polymerase III, essential for every cell, lead to the tissue-specific disease. In our interdisciplinary approach, we will generate a number of biological data using selected high-throughput methods and analyse them using state-of-the-art data science methods.

Our results will help understand structure of human genome, the relation between protein coding and specific non-protein coding genes – tRNAs. We aim to identify genes and pathways that are directly affected in RNAPIII HLD and can be potentially treated. If successful, we would like to continue our research utilizing brain mimicking structures called organoids and study myelination process in the laboratory.

Job description:

The successful applicant will be responsible for conducting experimental and analytical tasks during the project. Bioinformatics training can be provided. Ideal candidate should have strong background in molecular biology and interest in transcription or neurobiology.

Requirements for the candidate:

- PhD in biology, biochemistry, or related life science field, for not more than 7 years before the position starts.
- Hands-on experience in basic molecular biology methods.
- Good understanding of data analysis and relevant statistics.
- Previous experience in RNA work, cell line culturing or data analysis will be an advantage.
- Passion for science and ability to work independently under appropriate supervision.
- Proficiency in spoken and written English.
- Solid knowledge in molecular and cell biology, knowledge in neurobiology will be an advantage.



We offer:

- Opportunity to work on an ambitious and medically relevant scientific problem using a broad range of molecular biology, biochemistry and bioinformatics methods in a multi-disciplinary team.
- Full-time employment contract for 18 months in the amount of gross 8 000 PLN/month.
- The position with 100% focus on research (no teaching obligations).
- Training opportunities.
- Good work-life balance culture.

Lab webpage: <https://turowskilab.ibb.edu.pl>

The deadline for applications is **November 13th, 2023, early applications encouraged.**

Apply now to tomasz.turowski@ibb.waw.pl

- In the subject include "**PostDoc**" and your first and last name
- Your application must be submitted in English and should contain:
 - Cover letter (briefly describing background, interests and motivation for the project, max 1 page).
 - Scientific CV including achievements and used methodology (max 5 pages).
 - Contact details to 2 potential referees, including one of your PhD supervisor.
 - All documents should be merged in a single pdf file.
- **Please include the following statement in your application:** I hereby give my consent for the processing of my personal data by the Institute of Biochemistry and Biophysics PAS with its seat in Warsaw Pawińskiego 5a, 02-106 hereinafter referred to as the Institute for the purpose of the recruitment process and for future recruitment processes conducted by the Institute under Art. 23 ust 1 pkt 1 of the Personal Data Protection Act dated on 29 August 1997, consolidated text: Journal of Laws 2016, item 922 with further amendments and under Art. 6 ust.1 lit. a of 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 GDPR (Dz. U. UE. L. z 2016 r. Nr 119)"

Selected candidates will be invited for an interview (possible on-line).

Applications submitted after the deadline will be still considered if the position is not filled.