

Adam Mickiewicz University in Poznań, Poland. Institute of Molecular Biology and Biotechnology, Faculty of Biology & Center of Advanced Technologies

**A PhD studentship is available in the Genomic Regulation Lab (<https://STOPlab.org>)**

Our lab's aim is to integrate different levels of gene expression regulation – chromatin, transcription and RNA processing – focusing on gene ends.

We want to understand the basic mechanisms of when and how transcription stops (terminates), but also how perturbed termination contributes to disease. Premature termination, called also transcription attenuation, is particularly relevant in the pathological context. Premature termination was known to be an important regulatory mechanism in bacteria and yeast, but overlooked in humans and animals in general. We and others have recently shown that this phenomenon is a very abundant genomic event in metazoa. It has also medical implications, particularly in cancer.

Our main approaches are based on NGS (genomics and nascent transcriptomics), combined with molecular biology, biochemistry and proteomics. The lab's experimental workhorse are mammalian cell culture models of cancer and neuronal differentiation. We use both experimental and computational approaches.

The PhD student will study the effect of the chromatin environment of transcription termination, and vice versa. He/she will be responsible for leading his/her PhD project, with the **tasks including**: Planning and performing molecular biology experiments to obtain the research goals. Analyzing publicly available and self-generated NGS datasets. Presenting obtained data at internal seminars and lab meetings, as well as external conferences. Collaborating in a professional and friendly manner with other team members

### **Qualifications:**

Master degree in life sciences, preferentially in biology, biotechnology or bioinformatics. Good practical and theoretical knowledge of molecular biology and biochemistry, tissue culture skills. Interest in the mechanisms of transcription and chromatin regulation. Ability to work independently and as a part of a team, good work organization, taking responsibility for own project. Motivation to learn bioinformatics skills (programming in R, NGS analysis). Fluency (written and spoken) in English. Confirmed status of a PhD student on the day of starting the work in the project.

### **Application procedure**

The candidate should provide the following documents as a SINGLE pdf file: A motivation letter (not more than one page); CV, including any publications; names, email addresses and telephone numbers of three referees; a digital copy of Master Thesis (without any appendices); please add the statement: "I hereby give consent for my personal data included in my application to be processed for the purposes of the recruitment process in accordance with Article 6(1)(a) of the General Regulation on the Protection of Personal Data of 27 April 2016 (OJ L 119/1, 4.5.2016)." The pdf file, not exceeding 15MB, should be emailed to dr hab. Kinga Kamieniarz-Gdula ([kinga.kamieniarz-gdula@amu.edu.pl](mailto:kinga.kamieniarz-gdula@amu.edu.pl)). Application deadline: 7<sup>th</sup> October 2020.

Monthly NCN-funded stipend amount: 2600 – 4000 PLN gross (supplementation of AMU PhD scholarship is possible); available for 48 months. Position starts as soon as possible.

<https://www.ncn.gov.pl/baza-ofert/?akcja=wyswietl&id=184127>

<http://ibmib.amu.edu.pl/en/department-of-molecular-and-cellular-biology/genomic-regulation-lab/>