



JOB OFFER

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| Position in the project: | Junior Postdoctoral Researcher in Computational Biology (f/m/d) |
| Research group: | Chromatin structures reflecting cellular states (PI: Jakub Mieczkowski) |
| Scientific discipline: | Computational biology, molecular biology, cancer genetics, biomedicine. |
| Job type (employment contract/stipend): | Full-time employment contract |
| Remuneration amount/month: | "gross-gross" 11000 - 15000 PLN per month (commensurate to experience), including health and social insurance and retirement contributions, net 5500 PLN – 7500 PLN per month (1 EUR = 4.3 PLN, 1 USD = 3.9 PLN). The expected net salary has been calculated based on social insurance and tax collection rates in Poland and assumes no other sources of income. |
| Number of job offers: | 1 |
| Position starts on: | April 1 st , 2020 (or as soon as possible) |
| Maximum period of contract agreement: | August 31 st , 2023 (3 month trial period required) |
| Institution: | Medical University of Gdańsk, Gdańsk, Poland |
| Project leader: | Prof. Jan Dumański, prof. Arkadiusz Piotrowski |
| Project title/Context: | Mutations acquired during lifetime that lead to increased risk for human disease, with focus on cancer The Project/Centre is funded within the International Research Agendas Programme of the Foundation for Polish Science. The 3P-Medicine Lab (Preventive, Personalized, Precision) International Research Agenda is joint unit of Medical University of Gdańsk in Poland and Uppsala University in Sweden. 3P-Medicine Lab is a new scientific unit specializing in research on acquired genetic anomalies as risk factors for cancer and other illnesses. More about the center: https://ira3p.mug.edu.pl/ https://www.fnp.org.pl/en/3p-medicine-preventive-personalized-precision/ More about participating universities: https://www.uu.se/en https://mug.edu.pl/ |
| Project description: | The 3P-Medicine Laboratory (personalized, preventive, precision) is a new science center specializing in research on acquired genetic mutations as risk factors for cancer and other diseases. Our center is focused on somatic mutations that occur early in life in seemingly normal cells that eventually contribute to malignant transformation. Primary interest is in common malignancies that are etiologically related to environmental stimuli: breast cancer, colorectal cancer, urinary bladder cancer and prostate cancer. The ultimate goal is to develop genetic screening approach for non-hereditary cancer risk |

assessment, years before first clinical symptoms become apparent. Our unique collection of clinical samples includes not only primary and metastatic tumors, but also multiple biopsies of macroscopically normal tissue including frozen sections, peripheral blood, viable skin and stromal fibroblasts as well as cryopreserved primary cell cultures.

Research Group Description:

The Mieczkowski lab studies cells transitions, cell-cell communications and chromatin transformations. A key focus is the use of computational and experimental approaches to dissect, model, and interrogate the changes in chromatin structure triggered by genetic modifications and/or extracellular stimulations. The group pursues multi-disciplinary projects aiming to uncover patterns in chromatin and gene expression profiles relating to cell state. Members of the group will use state-of-the-art methodology to analyze molecular profiles obtained with genotyping microarrays, massively parallel sequencing of DNA (DNA methylation, ChIP, ATAC-seq etc.), bulk RNA- and single cell RNA-seq, as well as spatial transcriptomics.

Key responsibilities include:

1. Conducting scientific research and developing works commissioned by superiors.
2. Compliance with quality standards.
3. Analysis of bulk 'omic' and genetic data obtained with NGS.
4. Analysis of single-cell data.
5. Preparation of documented code.
6. Application for an additional funding
7. Interactions with clinical partners, biobanking and bioinformatics teams.
8. Supervision of Ph.D. students and technicians in the program.
9. Preparation of materials for scientific publications and patent applications.
10. Participation in collaboration with foreign partner (Uppsala University, Sweden).

Profile of candidates/requirements:

1. PhD degree: bioinformatic, molecular biology or equivalent.
2. At least one first author article.
3. Preference will be given to candidates that have research experience in genome-wide data analyses, that have experience with single-cell analyses, and are familiar with coding in R or other programming languages.
4. Strong interest in interdisciplinary research.
5. Prior participation in foreign scholarships/training is welcome.
6. Good knowledge of written and spoken English.
7. Excellent interpersonal and communication skills.
8. Strong motivation for research work, flexibility and self-driven interest to learn new techniques.
9. Ability to work in a team.



Required documents:

1. CV
2. Motivation letter
3. References to at least three former or current employers /mentors

Please submit all above documents in a single pdf file.

We offer:

1. Opportunity to gain and broaden expertise in the aspects of human genetics related to somatic origin of cancer with emphasis on single cell genomics and transcriptomics.
2. Mentoring and support from senior colleagues in the fields of genetics, cell and molecular biology, bioinformatics and biostatistics.
3. Opportunity to work in an international multidisciplinary training environment.
4. International collaboration opportunities including short term visits to foreign partner (Uppsala University).
5. Access to state-of-the-art equipment and computing resources.

For more information about the position please contact:

Jakub Mieczkowski (jakubm@gumed.edu.pl)

Please submit the following documents to:

mab@gumed.edu.pl

Application deadline:

February 16th, 2020

Euraxess job/stipend offer (in case of PhD and postdoc positions):

<https://euraxess.ec.europa.eu/jobs/472292>

Due to the entry into force of Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016, we also require that your job advertisements include a clause requesting the candidate's consent to the processing of his or her personal data by the institution which carries out the recruitment process: "I agree to the processing of personal data provided in this document for realizing the recruitment process pursuant to the Personal Data Protection Act of 10 May 2018 (Journal of Laws 2018, item 1000) and in agreement with 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). I agree to transfer of personal data to the Foundation for Polish Science and institutions verifying expenses in the project, and to the storage of data for the duration of the project and during its durability."