



UNIVERSITY
OF WARSAW



Faculty of Mathematics, Informatics and Mechanics

Ph.D. position in statistical data analysis of OMICS data (NCN JPND grant)

One Ph.D. position is offered in the project „Defining (sex and age) cell-specific epigenetic mechanisms underlying Environmental Enrichment/Exercise as non-pharmacological intervention for Alzheimer’s and Huntington’s disease and related potential noninvasive biomarkers.” financed from National Science Centre (NCN) JPND grant No 2022/04/Y/NZ2/00116. The project is led by Bartosz Wilczyński.

Requirements:

We are looking for a phd student capable of statistical data analysis of wide range of OMICS data. The person hired should have a documented experience in analysis of the following data types:

- RNA-Seq
- ChIP-Seq or Cut'n'Tag
- Bisulfite-Seq or other DNA methylation data

The analyses will involve dataset comparisons between genotypes and conditions, so experience with differential analyses (expression, methylation, binding) in complex experiment designs (genotype x condition x batch effect) will be a plus.

M.Sc in Biotechnology, bioinformatics or related fields is required. The person receiving the scholarship needs to be currently (at the time of hiring) enrolled in a phd school in Poland.

Tasks:

The person given the scholarship will be responsible for statistical data analysis of OMICS data from mouse models of neurodegenerative disorders (Alzheimer’s and Huntington’s diseases). The data will be collected by our partners in the consortium and our groups responsibility is to provide sound data analyses that will detect differential signals between genotypes in differential conditions, in the presence of discernible batch effects. The work will be conducted under supervision of the PI and a senior post-doc, who will be helping with the choice of statistical methods. The candidate should be able to perform the analysis in R on their own, prepare reports and interpret the results in the context of other available data in the domain.

Deadline for applications: 25th of September 2024 PhD

scholarship: 5000 PLN for 18 months on top of the scholarship offered by Doctoral School The scholarship can be extended.

Required documents: • CV (including candidate’s experience in OMICS data analysis)

The document should also include the date of planned end of the Master studies and the following clause: „I consent to the processing of my personal data contained in my offer for the purposes necessary for the recruitent proces in accordance with the Personal Data Protection Act of 29 August 1997 (consolidated text: Journal of Laws 2016, item 922, as amended”

Documents should be sent by email to: b.wilczynski@uw.edu.pl