MEDIZINISCHE UNIVERSITÄT WIEN

Post Doc Computational Biology/Bioinformatics Medical University of Vienna

THE POSITION

We are seeking an enthusiastic and energetic candidate with experience in bioinformatics to join a diverse team of academic and industrial researchers in a high profile project at the Medical University of Vienna examining how different macrophage populations contribute to obesity associated disease. As bioinformatician, you will implement and develop innovative systems biology workflows and contribute to cutting-edge bio-medical research.

Tasks & responsibilities

- As Post Doc, you will drive different research activities and develop data science methods to analyze large-scale transcriptomic (including single cell NGS), metabolomic, proteomic and lipidomic datasets.
- You will apply and develop modern systems biology methods via integrating these multi-omics data and correlating them with phenotypical data/clinical parameters to derive new biological insights, identifying potential biomarkers and biological networks driving fibrogenesis and cancer.
- You will apply above methods as part of an international high-profile collaboration with industry assessing the role of metabolic and proteomic networks in modulating immune responses, especially via targeting different macrophage populations.
- You will maintain close relationships with lab members and external industrial collaborators for data interpretation and presentation.
- As a result, you generate data-driven biological hypotheses that can be tested experimentally.
- You will drive the publication process in the above areas.

Requirements

- Doctoral degree in Bioinformatics, Computational Biology, (Bio)physics/mathematics, Biochemistry/Biology or similar with strong quantitative and numeric/computational focus.
- Enthusiasm in applying state-of-the-art omics technologies to tackle complex biological questions relating to immunology and metabolism.
- Ability to numerically process complex and large data sets
- Good programming skills (R/Bioconductor and/or Python) and familiarity with HPC and Linux environments
- Experience in analyzing next-generation sequencing data sets using modern systems biology methods
- Scientific publication record in applied bioinformatics
- Familiarity with single cell NGS analyses and other –omics techniques is a plus, but not essential.
- Willingness to act a strong bridge between wet-lab and computational work.
- Excellent written/oral communication skills in English, a proactive attitude and the ability to work in teams.

WE OFFER

- Work within an experienced, interdisciplinary, and international team at one of Austria's leading medical universities. MedUni Vienna is the largest medical organization in Austria and a top-level research European institution with a long history and tradition covering 640 years https://www.meduniwien.ac.at/web/en/
- An inspiring workplace with an international setting, strong team spirit, and an excellent working climate in one of best cities to live in the world. Vienna is a United Nations city with a large English-speaking community in the heart of Europe, https://www.wien.info/en
- Integrated environment with the Vienna/Austrian Bioinformatics community.
- The opportunity to obtain training and experience in Industry.
- Excellent employee benefits including full insurance coverage.
- Starting monthly gross salary of at least EUR 4.061,50 (following the recommendations of Austrian science fund, FWF). Overpayment is possible depending of experience.

Please send cover letter, CV and contact details of 2 referees to omar.sharif@meduniwien.ac.at and Gernot.schabbauer@meduniwien.ac.at. Applications will be reviewed on a rolling basis.