Ce–M–M–
Research Center for Molecular Medicine
of the Austrian Academy of Sciences

ÖAW

Bioinformatician

This position is funded by an ERC grant

The Kubicek laboratory at CeMM, Research Center for Molecular Medicine of the Austrian Academy of Sciences in Vienna, is recruiting a bioinformatician working at the interface of chemical biology and epigenetics.

The Position

You will systematically analyze and integrate large-scale data to understand the interplay between metabolic activities in the cell's nucleus and the regulation of gene expression. The data are generated in close collaboration with wet-lab scientists of the Kubicek group by technologies including proteomics, metabolomics, transcriptomics, epigenomics and chemical screening. The goal of the position is to develop an optimized data structure, build systematic analysis pipelines, set data in context with publically available external datasets and generate novel testable hypothesis for the role of small molecule metabolites in control of leukemic gene expression.
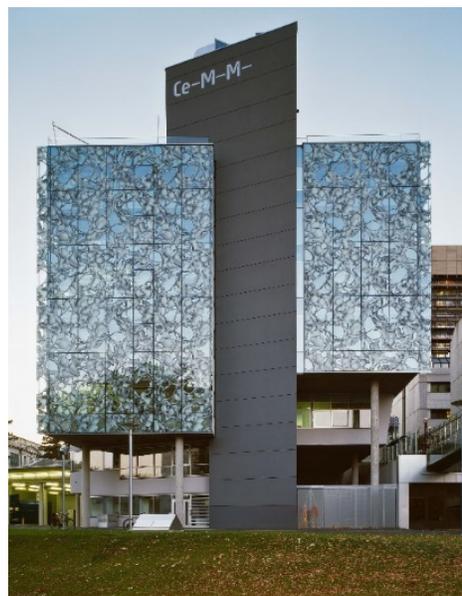
The Candidate

You hold a degree in Computational Biology (Bachelor, Master or PhD degree), and have a proven track record in data integration and statistical analysis of epigenomics data. Expertise in programs such as R, Python, Matlab is a requirement, and cheminformatics skills (Schroedinger, MOE, LigandScout, Pipeline Pilot) are considered a plus. On top of your university degree you should bring along relevant experience in the field of computational biology, preferably in an academic setting or in a biomedical/pharmaceutical company. The working language at CeMM is English, and therefore excellent written and oral communication skills are required. You have an efficient work style and your strengths include networked thinking, accuracy and reliability. To complement our team we are looking for a computational biologist with organizational talent and team player skills who would like contribute significantly to our research work and take part proactively in our scientific discussions.

The Laboratory

The Kubicek laboratory is working on the role of chromatin in the definition of cell types and cell states, and the use of chemistry to modulate epigenetic states. The ERC-funded project "Chromabolism" focuses on a systematic understanding of the role of chromatin-bound central metabolic enzymes in the regulation of gene expression.

Recent publications include the first single-cell transcriptomes from primary human pancreatic islets (Li et. al EMBO Rep. 2016), the identification of artemisinins as compounds impacting alpha cell identity (Li et al. Cell 2017), novel functional screening for chromatin states (Sdelci et al. Nat. Chem. Biol. 2017) and synergistic drug combinations (Licciardello et al. Nat. Chem. Biol. 2017). Furthermore, the laboratory hosts the Platform Austria for Chemical Biology PLACEBO, a unique chemical screening infrastructure with a collection of 90,000 small molecule compounds. In a unique automated setup, the platform conducts up to 40 high-throughput screens in collaboration with internal and external researchers. In addition, we apply proteomics, metabolomics, chemistry, mass spectrometry, bioinformatics, and next generation sequencing to address

our research questions. You will have the opportunity to work in an innovative research environment and collaborate closely with other research groups at CeMM.

The Institute

CeMM is a biomedical flagship institute in the heart of Europe, Vienna. We are committed to highest scientific standards and provide an international environment representing approximately 40 nationalities. The working language is English. CeMM has been ranked by The Scientist as one of the Best Places to Work Academia worldwide (link: http://goo.gl/51VMO). In the past 3 years CeMM groups published numerous ground-breaking studies in prestigious journals such as Science, Cell, Nature, New England Journal of Medicine, Nature Immunology, Immunity etc. CeMM is located within the medical campus of Vienna and operates several technology platforms (chemical biological screening, proteomics, metabolomics, next-generation sequencing) as well as extensive bioinformatics infrastructure. Vienna is an international city with a large English speaking community and frequently ranked the world's best city to live. The official language at CeMM is English, and more than 40 nationalities are represented. CeMM aims to promote equality of opportunity for all with the right mix of talent, competences, and potential thus we welcome applications from candidates with diverse backgrounds.

Your Application

Please upload your application documents (including a cover letter, a CV and names and contact details of at least 2 referees) using our online recruitment tool: https://cemm.jobbase.io/job/93xv59os

We offer a fair employee benefits package including health insurance, company health care, competitive holiday allowance, daily bonus for the in-house cafeteria and an annual gross salary (according to the FWF personnel costs scheme https://www.fwf.ac.at/en/research-funding/personnel-costs/, depending on qualifications and experience). This position is funded by an ERC grant.

Applications will be reviewed on a rolling basis until the position is filled.