Project Scientist to join the Superti-Furga Lab (m/f/d)

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Are you interested in evaluating the impact of genetic variations in human transporters? Do you want to join a great international team of scientists from Pharma and Academia?

The RE*solution* consortium is looking for a **project scientist** to study the functional impact of genetic variations in human solute carrier transporters (SLCs). To that end, the candidate will generate cell line models, in which she/he will apply deep mutational scanning using variant libraries, as well as test experimentally variant effect predictions.

You will work in Giulio Superti-Furga's group (CeMM, Vienna) as part of the RE*solution* consortium, a spin-off project of RESOLUTE (https://re-solute.eu/). RE*solution* is formed by two pharmaceutical companies, one biotech and six academic research institutions. The candidate will interact closely with consortium partners for the functional characterization of selected genetic variants and will have direct assistance from data scientists at CeMM.

This position offers a great opportunity to boost the biomedical impact of human transporter research, as it combines state-of-the-art experimental methods and machine learning-driven computational approaches.

Requirements and desired qualifications

- PhD in cell biology, biochemistry, genetics or similar
- Experience in site-directed mutagenesis, variant libraries screen or mutational scanning approaches
- Experience in mammalian cell culture (immortalized cell line models) and viral delivery systems
- Sequence analysis using basic bioinformatics tools
- Previous experience with CRISPR/Cas9 technologies is a plus
- Experience with biochemical/pharmacological analysis of transporters or membrane proteins is desirable
- Ability to work in a team and proactive attitude is required
- Excellent written / oral communication skills in English

The RE*solution* consortium

Starting on June 1st of 2021, the RE*solution* consortium is supported by the Innovative Medicines Initiative (IMI, www.imi.europa.eu) and consists of 9 partners from academia and the pharmaceutical industry. The consortium is coordinated by the Superti-Furga laboratory and builds on the successful work of the RESOLUTE consortium, which focuses on the systematic de-orphanization of SLCs and is creating open-access tools, high-throughput assays and omics data. While RESOLUTE is focused on basic aspects of SLC biochemistry and biology, RE*solution* will add a medical genomics dimension. RE*solution* will assemble human SLC genetic information, annotate the data within the RESOLUTE knowledgebase, study the structure-activity relationship for selected

SLC variants, and use deep mutagenesis and artificial intelligence to develop better models for the interpretation of SLC genetic variation. Contextualization of SLCs in the human medical genetics landscape is an important step towards the establishment of the medically relevant but understudied SLC family as a tractable target class.

The Superti-Furga laboratory

The Superti-Furga group (http://superti-furga-lab.at/) is composed of an international team of more than 30 scientists working together on understanding drug function at the molecular level. The laboratory investigates how cells and biological systems in general manage access to the environment through cellular transport. In particular how access to nutrients and energy source is tuned to metabolism and need of individual cell types. Moreover, the lab has pioneered approaches for functional precision medicine. The laboratory operates on a truly multidisciplinary basis and involves functional genomics and proteomics, structural analysis, chemical biology, high-content imaging, bioinformatics and physiology, reflecting the blend of expertise of the laboratory members.

The Institute

CeMM (http://cemm.at) is a flagship institute for biomedical research in the heart of Europe, Vienna. CeMM is committed to highest scientific standards. The environment is very collaborative, dynamic and international. One of CeMM's advantages is to be in close proximity to the Vienna Medical University Campus and the General Hospital (AKH). This allows the fruitful interaction of basic scientists with clinicians, and the use of models and cutting-edge technology to disease-relevant biological questions. According to a study by The Scientist, CeMM is ranked as the best European place to work in Academia 2012, internationally CeMM appears at the fourth place. The official language at CeMM is English, and more than 48 different nationalities are represented at the institute.

We offer

This is a fantastic opportunity for you to join an exciting project in an inspiring and dynamic setting. In return, we are offering an excellent employee benefits package including health insurance, company health care, competitive holiday allowance, daily bonus for the in-house cafeteria and a monthly gross salary of at least EUR 3,945,90 (following the recommendations of FWF). We offer a great work environment for passionate scientists and we are proud to be an international, diverse group.

Application details

CeMM aims to promote equality of opportunity for all with the right mix of talent, competences and potential. We welcome applications from candidates with diverse backgrounds. Please apply online here: https://cemm.jobbase.io/job/2uokl50b with a motivation letter explaining why you are the ideal candidate for this position, your curriculum vitae and contact details of 2-3 referees.

Applications will be screened on a rolling basis until the position is filled and the preferred starting date is June 1st, 2021.

Additional information

City **Vienna**

Position type **Full-time employee**

Start of work **01.06.2021**

Responsible

Memo Mokhles

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