

# Project Scientist to join the Superti-Furga Lab

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## **Do you want to be part of an international consortium committed to evaluate the impact of genetic variation in human transporters at the interface between biological systems and the environment?**

We are looking for a **project scientist** to support the functional assessment of genetic variation in human transporters by generation of suitable cell line models, application of experimental approaches, such as deep mutational scanning using variant libraries, and testing variant effect predictions experimentally for further improvement in close collaboration with the data science team.

You will work in the Giulio Superti-Furga group (CeMM, Vienna) as part of the *REsolution* consortium, a spin-off project of RESOLUTE (<https://re-solute.eu/>), comprising two pharmaceutical companies, one biotech and six academic research institutions. You will perform deep mutational scanning experiments, create cell lines to test selected genetic variants, and interact closely with other consortium partners for the functional characterization of selected genetic variants.

Together we want to manifest the biomedical impact of human transporter research coupling state-of-the-art experimental and computational approaches.

### **Requirements and desired qualifications**

- PhD in cell biology, biochemistry, genetics or similar
- Experience in site-directed mutagenesis or mutational scanning approaches
- Knowledge of general molecular biology and biochemical techniques
- Experience in mammalian cell culture (immortalized cell line models)
- Previous experience with viral delivery systems, CRISPR/Cas9 and Flp-In technologies
- Sequence analysis using basic bioinformatics tools
- Experience with biochemical/pharmacological analysis of transporters or membrane proteins is desirable
- Meticulousness and talent in organization
- Ability to work in a team and pursue goals in a focused way
- Excellent written / oral communication skills in English

### **The *REsolution* consortium**

Starting on June 1<sup>st</sup> of 2021, the *REsolution* consortium is supported by the Innovative Medicines Initiative (IMI, [www.imi.europa.eu](http://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, *REsolution* will add a medical genomics dimension. *REsolution* 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 3,889.50 (following the [recommendations of FWF](#)). We offer a great work environment for passionate scientists and we are proud to be an international, diverse group. The contract for the position will be initially limited to 2 years, matching the project's duration.

## **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.

Application deadline is March 8<sup>th</sup>, 2021 and the starting date will be June 1<sup>st</sup>, 2021.

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## Additional information

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City **Vienna**

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Position type **Full-time employee**

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Start of work **01.06.2021**

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## Responsible

Memo Mokhles

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