

Postdoc Program in Cellular, Molecular and Digital Medicine

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Pre-ERC Postdoc Program in Cellular, Molecular and Digital Medicine

We are recruiting a group of **postdocs** who are eager to pursue groundbreaking biomedical research, and we will help them to establish themselves as **future scientific leaders**. This postdoc program is designed to prepare postdoctoral researchers for a successful ERC Starting Grant application and for an independent research career in top research organizations in Europe and around the world.

The postdoc program is based at the **CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences in Vienna**, one of Europe's leading centers for basic biomedical research – with clinical translation in mind. Selected candidates will join one of CeMM's research groups for 3 to 6 years, addressing ambitious research questions in areas such as cancer, immunology, chemical biology, epigenetics, metabolism, and genomic medicine. Research projects will focus on medically relevant problems, including disease mechanisms, modern therapeutics and diagnostic strategies. On top, postdocs will receive extensive career development and leadership training from the entire CeMM Faculty and additional experts in a highly collaborative and supportive environment.

What we offer:

- An international group of highly collaborative colleagues that will help you achieve your scientific and career goals
- Top-notch environment with the ideas, projects, resources, infrastructure, collaborations, and mindset for groundbreaking research

- Excellent track record of past postdocs who have become internationally successful principal investigators, professors, entrepreneurs
- Strong focus on disease biology and translational research: cancer, metabolic disorders, inflammation/infection, drug discovery
- Interdisciplinary projects connecting biology with medicine, experiments with computation, and discovery with translation
- Unique opportunity to engage close interactions with physicians and clinical researchers at the Medical University of Vienna in one of Europe's largest medical campuses
- Opportunities to collaborate with industry (biotech/pharma) and to get involved in academic start-up/spin-off companies
- Training program in project management, scientific writing, visual communication, entrepreneurship, leadership and data science
- Special training for writing successful ERC Starting Grants as a "ticket" to an outstanding academic career in Europe
- Mentoring Program within EU-LIFE (https://www.eu-life.eu), an alliance of 13 top research centers in life sciences to support and strengthen European research excellence
- Being part of a thriving academic and social community in Vienna, one the cities with the best quality-of-life in the world
- A competitive postdoc salary according to the Austrian Science Fund (https://www.fwf.ac.at), which amounts to an annual gross salary slightly above EUR 50,000. The CeMM employment contract includes full insurance (health, accident, pension) and a one-off payment for moving
- CeMM's HR department and administrative team offers support with relocation, visa applications, onboarding, family support etc.

Whom we are looking for:

- Candidates who want to pursue innovative biomedical research and substantially advance their scientific career
- Open to both PhD (natural sciences) and MD (medical sciences) holders
- From a variety of academic backgrounds: molecular biology, biomedical research, bioinformatics, biochemistry, bioengineering, etc.
- With the motivation, skills, experiences, and initial achievements (subject to academic age) to qualify for a competitive postdoc program
- Required are scientific quality and originality, as well as a collaborative and interdisciplinary mindset

Potential projects:

- Host pathogen interactions (Bergthaler Lab); Mechanistic investigations of the dynamic evolution of chronic viruses
- Immunometabolism (Bergthaler Lab); Metabolic inter-organ communication during inflammation and infection
- Cancer immune modeling (Bock Lab); Single-cell analysis of immune deregulation in (humanized) mouse models of cancer
- Human synthetic biology (Bock Lab); Developing new cell-based therapies (CAR T etc.) using combinatorial bioengineering and machine learning / artificial intelligence

- Precision pediatric oncology (Boztug Lab); Integrating multi-omics profiling with ex vivo image-based drug sensitivity testing for personalized therapies
- Organoid-omics (Boztug Lab); Profiling patient organoids from inherited rare diseases and pediatric cancer patients for precision medicine
- Chemical epigenetics (Kubicek Lab); Developing novel chemical probes targeting cancers with mutations in chromatin modifiers
- Nuclear metabolism (Kubicek Lab); Studying the role of chromatin-bound metabolic enzymes in leukemias
- Cellular transporters (Superti-Furga Lab); Targeting cellular transporters to modulate disease
- Systems biology (Superti-Furga Lab); Network-based systems-level analysis of the human transportome
- Cancer biology (Villunger Lab); Interrogating the PIDDosome in ploidy control for tumor suppression
- Polyploidization in health and disease (Villunger Lab); The role of polyploidy in heart development and regeneration
- Targeted protein degradation (Winter Lab); Medicinal chemistry strategies to modulate the proteolytic machinery for cancer therapy
- We are open to other ideas that fit into the broader scope and mission of the CeMM Research Center for Molecular Medicine

The Institute (http://www.cemm.at/)

CeMM is an international research institute of the Austrian Academy of Sciences and a founding member of EU-LIFE. The mission of CeMM is to achieve maximum scientific innovation in molecular medicine to improve healthcare. It has an outstanding track record of top-notch science (last few years: >10 papers in Nature/Cell/Science/NEJM, >25 papers in Nature/Cell sister journals) and medical translation. At CeMM, an international and creative team of scientists and medical doctors pursues free-minded basic life science research in a large and vibrant hospital environment of outstanding medical tradition and practice. CeMM's research is based on post-genomic technologies and focuses on societally important diseases, such as immune disorders and infections, cancer and metabolic disorders. We operate in a unique mode of super-cooperation, connecting biology with medicine, experiments with computation, discovery with translation, and science with society and the arts. The goal of CeMM is to pioneer the science that nurtures the precise, personalized, predictive and preventive medicine of the future, and to train a modern blend of biomedical scientists to make great contributions.

A study by "The Scientist" placed CeMM among the top-5 best places to work in academia world-wide (https://www.the-scientist.com/features/best-places-to-work-academia-2012-40676). Vienna is frequently ranked the world's best city to live. It is a United Nations city with a large English-speaking community. The official language at CeMM is English, and more than 40 different nationalities are represented at the institute. CeMM promotes equal opportunity, is work package leader in a H2020 funded gender equality project called LIBRA (https://www.eu-life.eu) and harbors a mix of different talents, backgrounds, competences, and interests.

Please apply online (by clicking on the apply now-button) with 1) a cover letter including a short summary of research interests, 2) curriculum vitae (CV), 3) academic transcripts, and 4) contact details of three referees.

Applications received by 31 August 2019 will be considered. The preferred starting date is January 2020 or earlier.

Selection Process: All submitted applications are reviewed by the CeMM Faculty and selected candidates are invited to participate in a video interview. Shortlisted candidates are then invited to Vienna for a two-day event, where they will be asked to introduce themselves through a presentation followed by panel interviews with CeMM Faculty members. Faculty will propose tentative projects to the postdoc candidates, and there is extensive opportunity to meet research group members and attend an informal dinner. At the end of the selection process, candidates will be asked to submit their preference regarding which research groups they would like to work with, which may be identical or different from the original choice indicated in the cover letter.

Additional information

City	**Vienna**
Position type	**Full-time employee**
Start of work	**01.01.2020**

Responsible

Binia Meixner

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