

Open Positions for Postdoctoral Fellows in Molecular Immunology and Infection Biology

Short Summary: The Bergthaler laboratory at the CeMM Research Center for Molecular Medicine of the Austrian Academy of Sciences in Vienna, Austria is looking for Postdoctoral Fellows who strive to study fundamental molecular questions in the areas of viral infections, inflammation and immunity. Hypothesis- and data-driven approaches are integrated to address pertinent pathophysiological questions on the organ/organism level (Ref: e.g. Schliehe C et al. *Nature Immunology* 2015 (PMID: 25419628), Bhattacharya A et al. *Immunity* 2015 (PMID: 26588782), Khamina K et al. *PLoS Pathogens* 2017 (PMID: 292618079)).

The Projects:

Project 1: **Metabolite-driven inflammation in viral hepatitis.**

How do metabolic-inflammatory hubs modulate antiviral T cells and liver pathology? By using *in vivo* infection models and latest technologies (CRISPR screens, single cell sequencing, metabolomics, flux measurements) we aim to unravel critical processes between metabolism and inflammation in tissue. This may open avenues to tailor local and systemic immunological responses and ameliorate tissue pathology.

Project 2: **Impact of chromatin-associated proteins in inflammation.**

This project will focus on the yet unexplored role of specific chromatin-associated proteins during infections and sterile inflammatory diseases. Newly generated gene-targeted mouse models and immunological and virological assays will be coupled to systems-level approaches (ChIP-seq, RNA-seq) to identify novel mechanisms of immunoregulation that are relevant to inflammation during infections and autoimmunity.

Both projects will benefit from established *in vivo* disease models, unpublished data, strong bioinformatics support, access to world class core facilities (next-generation sequencing, metabolomics, proteomics, drug screens), a highly international environment and a vibrant collaborative network with leading scientists.

Your Profile:

- + PhD in a relevant field (e.g. Molecular Biology, Immunology, Virology, Genomics, Epigenetics, Tissue Biology, Computational Biology, Technology Development).
- + Alternatively, you have a MD/DVM degree and strong interests in mechanistic molecular research.
- + Strong publication track record with at least one first-author paper in a reputed peer-reviewed journal.
- + Expertise in molecular biology, immunology and animal models.
- + Additional skillsets (e.g. histology, screening assays, data analysis, modeling) are welcomed assets.
- + Critical, creative and proactive mindset.
- + Teamplayer with strong interdisciplinary communication skills.

The PI: Dr. Bergthaler received training in premier laboratories at the University/ETH Zurich, University of Tokyo and at the Institute for Systems Biology in Seattle. His team currently consists of 10 members representing 6 nationalities, who closely collaborate across projects. The lab is funded by intramural funds from the Austrian Academy of Sciences and competitive grants (European Research Council (ERC), Austrian Science Fund (FWF)). More information about the PI and the lab: <http://www.bergthaler1.at>

The Institute: CeMM is an international research institute of the Austrian Academy of Sciences and founding member of EU-LIFE (<http://eu-life.eu>). CeMM is a leading biomedical research institute in Europe and provides a collaborative, dynamic and personal environment. The official language at CeMM is English with more than 40 nationalities present at the institute. CeMM aims to promote equality of opportunity for all with the right mix of talent, competences, and potential and thus we welcome applications from candidates with diverse backgrounds. More information about CeMM: <http://cemm.at/>

Your application:

Please submit your application at <https://cemm.jobbase.io/job/f6rex65c> and include a cover letter, CV, academic transcripts, and contact details of three referees.

Applications will be reviewed on a rolling basis. Starting dates are flexible. The annual salary of approximately 50,000 EUR (gross) is paid according to the FWF salary scheme.