

Djinovic lab

Postdoctoral Position

About the Djinovic lab

The Djinovic lab is interested in the molecular mechanisms underlying the architecture and assembly of the actin-based cytoskeleton. This project focuses on ubiquitous human proteins α -actinin-1 and -4, which self-associate to form homo- and hetero dimeric units that cross-link actin filaments in a calcium-regulated manner. The project is jointly funded by Austrian and Slovene Science Funds and is a close collaboration between the Djinovic group at Vienna, Austria, and the Pavsic group at the University of Ljubljana, Slovenia. The two young and dynamic groups will join forces to understand the detailed molecular mechanism of regulation of this essential F-actin crosslinking protein by calcium and specific phosphorylation events.

About the position

Postdoctoral Position: Structural biology of the actin cytoskeleton

We employ an integrated approach by combining biochemistry, cell, chemical and structural biology approaches, including X-ray crystallography, small angle scattering and (starting) cryo-EM. The successful candidates will be involved in all aspects of the project, including protein expression, purification, biophysical, biochemical characterization and integrative structural biology.

Candidates

The applicant should hold a PhD degree in a relevant field and two years of post-doctoral experience in a structural biology lab. Strong background in molecular cloning, expression, and purification of protein complexes is essential. Prior knowledge of crystallography and/or single-particle electron microscopy is needed. Excellent spoken and written English skills are required. The successful applicant will work in a stimulating scientific environment: [Department for Structural and Computational Biology](#) at the [Max Perutz Labs](#), a joint venture between the University of Vienna and the Medical University of Vienna. The Labs are located at the [Vienna BioCenter](#), the largest molecular life science hub in Austria.

MAX PERUTZ LABS

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BioCenter 

We are equipped with *state-of-the-art* [research infrastructure](#) for experimental and computational work, and have access to facilities at the [Vienna BioCenter Core Facilities](#), which include mass-spectrometry, a blend of Protein technologies and electron microscopy instruments (Glacios, Krios). Additionally the group has access to cryo-EM Titan-Krios through BAG at ESRF and to major European synchrotron high-brilliance X-ray sources.

Application

- A concise description of research experience, including a list of published peer-reviewed articles.
- Copy of the PhD diploma (or equivalent).
- Contact details for **three references**, of which one should be your PhD supervisor.

Please prepare the **application as a single package in PDF format**, and send it to admin.vbc5@univie.ac.at, subject Postdoctoral position in Djinovic Lab.

Websites

- <https://www.maxperutzlabs.ac.at/research/research-groups/djinovic>
- <https://www.maxperutzlabs.ac.at/>
- <https://structbio.univie.ac.at/>
- <https://structbio.univie.ac.at/research-infrastructure-facilities/>
- <https://www.viennabiocenter.org/>
- <https://www.viennabiocenter.org/facilities/>

Duration of employment: 3 years

Deadline of application: review of applications begins immediately and will continue until the position is filled.

Contact

For details in the project contact please contact: Kristina Djinovic Carugo kristina.djinovic@univie.ac.at

About the Max Perutz Labs

The Max Perutz Labs are a research institute established by the University of Vienna and the Medical University of Vienna to provide an environment for excellent, internationally recognized research and education in the field of Molecular Biology. Dedicated to a mechanistic understanding of fundamental biomedical processes, scientists at the Max Perutz Labs aim to link breakthroughs in basic research to advances in human health. The Max Perutz Labs (www.maxperutzlabs.ac.at) are located at the Vienna BioCenter, one of Europe's hotspots for the Life Sciences, and host 45 research groups, involving around 400 scientists and staff from 50 nations.