

## Post Doc Stellenausschreibung

Fachgebiet: Bioinformatics in cardiology, Network medicine, Long-COVID Research,

### Ausschreibungstext:

We conduct a Long-COVID Register at the Division of Cardiology of the 2<sup>nd</sup> Department of Internal Medicine, Medical University of Vienna (MUW). We gather clinical, imaging, clinical laboratory, and molecular biology laboratory data of patients suffering from Long COVID syndrome. Beside the clinical and imaging data, the PhD students and postdocs of our molecular laboratory perform diverse analyses, among others proteomics, genomics (analyses of coding and noncoding RNAs, cell-free DNA), characterization of peripheral blood mononuclear cells. For the integration of the clin-omics data and search of predictive factors for prevalence and clinical outcome, a network medicine approach is necessary.

In the frame of our FWF (Austrian Science Fund) project (Predictive Biomarkers of Type, Severity and Longevity of Post-COVID Syndrome. The "POSTCOV" project), a Bioinformatician postdoc position (20h/week) for 3 years is announced. Predicted start from 1. September 2022.

### Your task:

- Setting up an integrated database of clin-omics model of system biology of post-COVID syndrome by using bioinformatics, and integrating the big data of omics and clinical and laboratory records;
- Analysing the clin-omics datasets by network medicine approach to define the complex molecular fingerprints of post-COVID disease
- Setting up of drug-prediction model to treat post-COVID syndrome
- Design RNA interference (RNAi)-mediated therapeutic approaches
- Supervision of Master and PhD students
- Set-up and update a home page of the project
- Support of the Lab Leader in the administratives of the project
- Publication activities and preparation of external funding applications

### Your profile:

- Completion of bioinformatical Master doctorate
- Strong experience with programming languages (python, R, bash scripts)
- In-depth knowledge in bioinformatics, network medicine and construction of databases
- Knowledge in molecular biology and bioinformatical interpretation of molecular biological processes
- Experience in medicine and biology
- Experience with clinic-related research is preferable
- Very good English spoken and written, preferably good German language,
- Appropriate track record of publications in scientific journals
- Open and flexible personality and integration in our nice lab team

### Your perspective

- Working in a nice and motivated lab team milieu, including 2 physicians, 3 PhD students and 3 molecular biology postdocs

- Yearly salary of 35020 € (20h/week). Possibility to upgrade upon qualification and adequate performance
- Flexible working time for a challenging job

Applications should include the curriculum vitae, publication list, and motivation letter. Application should be emailed to Prof. Dr. Mariann Gyöngyösi, email: [mariann.gyongyosi@meduniwien.ac.at](mailto:mariann.gyongyosi@meduniwien.ac.at)