



Contact Name for applications:	Elena Osto
Email:	elena.osto@medunigraz.at
Phone:	+43 31638573851
Country:	Austria
City:	Graz
Institution:	Department physiology and pathophysiology
Title of Position:	Senior scientist Post -Doc
Summary of Position:	Cardio-metabolic effects of GLP1 analogs and SGLT2 inhibitors: focus on endothelial cells metabolism and function
Closing Date:	15 June 2023

A post-Doctoral position is available in the group of Prof. Elena OSTO's cardio-metabolic research at the Medical University of Graz

<https://physiologie.medunigraz.at/>

<https://www.cardiometabolicresearch.com/>

Your profile:

We are looking for a highly motivated:

- Post-Doc candidate with a PhD, MD or MD/PhD degree with a strong background in cardiovascular (endothelial and vascular biology) and/or metabolic disease (obesity and in particular adipocyte biology). The project of the newly hired post-Doc focuses on how endothelial cells and adipocytes metabolically crosstalk in health and obesity and upon administration of the newest anti-obesity drugs.

Qualified applicants should have a strong record of achievements as evidenced by first-author research papers published in peer-reviewed journals and have a strong interest in a multidisciplinary approach to experimental and clinical research. The ideal candidate shows initiative, a vigorous “Can-Do“-mentality and ambition to succeed in a research career. The candidate is reliable and well organized and shows social skills to work in an international team. Hands-on experience with cardiovascular/metabolic animal models is required (FELASA recognized e.g., metabolic phenotyping of rodent model of obesity, diabetes, genetically modified strains; surgical skills are a plus). Laboratory techniques will include flow cytometry, Seahorse measurements, endothelial cell isolation, single cell RNA sequencing, myograph vascular studies, advanced imaging techniques, i.e. echocardiography. Prior experience on primary endothelial and adipocytes research are of clear advantage. The ability to design, evaluate and report research is required as well as excellent verbal and written communication skills in English. Involvement in scientific publications and Grant applications writing is expected. Acquisition of own third party funds is expected.

The project:

Our group uses a combination of state of the art molecular

techniques to complement mouse and human models of disease. The dysfunction of endothelial cells is a key player in cardiovascular and metabolic disease. However, the molecular mechanisms that disrupt endothelial homeostasis remain unclear. We examine the crosstalk between gut hormones (i.e. glucagon-like peptide-1, bile acids), adipocytes and endothelial cells in health and disease. Samples collected from animal models or patients with obesity, type 2 diabetes and after bariatric surgery or other types of weight loss treatments (with focus on GLP1 analogs and SGLT2 inhibitors) will be analyzed in parallel. Previous experience with laboratory rodents is mandatory.

This position requires a direct involvement in the experimental work with animals and clinical arms of the study and close interaction/supervision of Master and PhD students.

Start: Immediately available.

Please send your complete application material, including cover letter, CV, statement of motivation, list of publications, and of 2 contacts for reference combined into one single PDF-file to: anita.ertl@medunigraz.at
