Title: PhD in endocrine physiology

Job-Type: Scientific Job Announcements

Expertise:        electrophysiology, confocal imaging, Python
Workplace:        Institute of Physiology, Center for physiology and
pharmacology, Medical University of Vienna
Website:          [https://www.meduniwien.ac.at/researcher/marjan\_slak\_rupnik](https://urldefense.com/v3/__https%3A/www.meduniwien.ac.at/researcher/marjan_slak_rupnik__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZcOQ4cv4$)
Closing Date:     31.03.2020

Content:
A 3-year PhD research scientist position is available at the Institute of
Physiology, Center for physiology and pharmacology, Medical University of
Vienna. The candidate will work on an international joint research project
called “Beta-cells in diet-induced diabetes and remission (Austrian Science
Fund FWF project I3787-B21 and Slovene Research Agency project N3-0116). The
project aims to validate a new western diet-induced model of obesity,
metabolic syndrome and to precisely assess the mechanism and the
organizational level of diet-induced beta cell injury and its reversibility
in a mouse model. The fresh pancreas tissue slices will be used to perform
electrophysiological and functional mutlicellular confocal imaging
experiments. The beta cell collective activity will be assessed using tools
of statistical physics (Korošak D, Slak Rupnik M (2019) Front. Physiol.
[doi.org/10.3389/fphys.2019.01194](https://urldefense.com/v3/__http%3A/doi.org/10.3389/fphys.2019.01194__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZAyi-XmY$); Stozer A et al., (2019) Front. Physiol.
[doi.org/10.3389/fphys.2019.00869](https://urldefense.com/v3/__http%3A/doi.org/10.3389/fphys.2019.00869__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZPLc-_y8$); Korošak D, Slak Rupnik M (2018) Front.
Physiol. [doi.org/10.3389/fphys.2018.00031](https://urldefense.com/v3/__http%3A/doi.org/10.3389/fphys.2018.00031__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZG0_CTic$)). The candidate is expected to
perform experimental work on both partner locations, Vienna and Maribor.
Highly motivated students with a strong interest in physiology of pancreatic
beta cells/computational biology are welcome to apply. Practical experience
with electrophysiological techniques and computer coding (e.g. Python) will
be considered as an advantage. The candidate should preferably hold a
research-based master degree in neuroscience, biophysics or related
disciplines and should be able to communicate in English at an advanced
level.
Candidate will receive a monthly salary according to the scales of the
Austrian Science Fund FWF. Applications in English should be sent via a
single pdf containing: CV, education certificates, one-page motivation
letter and contact details of 3 senior scientist, who would be willing to
give a reference. Only candidates selected for interviews will be contacted.

Contact
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