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:/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:/doi.org/10.3389/fphys.2019.01194__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZAyi-XmY$); Stozer A et al., (2019) Front. Physiol.   
[doi.org/10.3389/fphys.2019.00869](https://urldefense.com/v3/__http:/doi.org/10.3389/fphys.2019.00869__;!!Fou38LsQmgU!9b_y_Cp-lWzTwJZmXkM5BfNIcR3dBqJSXMPRhcMMNLivsI1pvSvZPLc-_y8$); Korošak D, Slak Rupnik M (2018) Front.   
Physiol. [doi.org/10.3389/fphys.2018.00031](https://urldefense.com/v3/__http:/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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