

Postdoc Positions in Neural Circuits and Function of Sleep at the Department of Neuroscience, University of Pennsylvania

Postdoc positions are available in the laboratory of Dr. Franz Weber at the Department of Neuroscience, University of Pennsylvania. We are interested in the neural and homeostatic mechanisms regulating REM sleep and aim to understand how this brain state affects neural circuits involved in cognitive and emotional behaviors. To address these questions, we employ an inter-disciplinary approach integrating various state-of-the-art techniques including optogenetics, in vivo physiology, calcium imaging, gene profiling, quantitative modeling, and viral tracing.

We are looking for enthusiastic and highly motivated individuals with a PhD in life sciences and strong expertise in sleep research, molecular biology or in vivo physiology.

Our lab is part of the Chronobiology Program at Penn. With its strong focus on sleep research arising from the Chronobiology Program and the Center for Sleep and Circadian Neurobiology, Penn offers a unique environment for the inter-disciplinary study of sleep in multiple model organisms.

Interested applicants should email a statement of research interests and a CV including contact information for three referees to fweber@mail.med.upenn.edu.

For more information or informal inquiries, please get in touch!

References

F. Weber, S. Chung, K.T. Beier, M. Xu, L. Luo and Y. Dan. (2015) Control of REM Sleep by Ventral Medulla GABAergic Neurons. *Nature*, 526, 435–438

F. Weber and Y. Dan. (2016) Circuit-based interrogation of sleep control. *Nature*, 538, 51–59

S. Chung, **F. Weber**, P. Zhong, C.L. Tan, T. Nguyen, K.T. Beier, N. Hörmann, W.C. Chang, Z. Zhang, J.P.H. Do, S. Yao, M.J. Krashes, B. Tasic, A. Cetin, H. Zeng, Z.A. Knight, L. Luo, and Y. Dan. (2017) Identification of Preoptic Sleep Neurons Using Retrograde Labeling and Gene Profiling. *Nature*, 545, 477–481

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