

Postdoctoral Fellow in Systems Neuroscience Neural Circuitry of Sleep and Wakefulness

Department of Neuroscience, University of Pennsylvania, Philadelphia, PA

We are seeking a talented and motivated postdoctoral fellow to join the laboratory of Dr. Shinjae Chung at the Department of Neuroscience, University of Pennsylvania. The goal of our lab is to identify the molecular and neural mechanisms controlling sleep, and unravel how the underlying circuit elements are influenced by positive or negative emotional states in health and disease. We employ a multi-disciplinary approach including optogenetics, in vivo electrophysiology, imaging, virus-mediated circuit mapping and gene profiling (Chung et al., Nature 2017).

We are looking for a passionate individual with the potential to become a great scientist who can make an impact on the field of neuroscience. We strive to create a collaborative environment, where open-minded colleagues enjoy the process of being creative and making discoveries. The candidate should have a Ph.D. and strong expertise in animal behavior, molecular biology or in vivo physiology.

We are part of the Chronobiology Program and the Department of Neuroscience of the Perelman School of Medicine at the University of Pennsylvania. The position offers the opportunity to become an active member of the multi-disciplinary sleep research community at Penn, arising from the Chronobiology Program and the Center for Sleep and Circadian Neurobiology.

For more information, visit the lab webpage: <https://chunglab.med.upenn.edu>

Interested applicants should contact Shinjae Chung (shinjaec@mail.med.upenn.edu) and include their CV, statement of research and contact information for three referees.

Chung S, Weber F, Zhong P, Tan CL, Nguyen TN, Beier KT, Hörmann N, Chang WC, Zhang Z, Do JP, Yao S, Krashes MJ, Tasic B, Cetin A, Zeng H, Knight ZA, Luo L, Dan Y. Identification of preoptic sleep neurons using retrograde labeling and gene profiling. *Nature*. 2017 May 25 545(7655):477-481

Xu M*, **Chung S***, Zhang S, Zhong P, Ma C, Chang WC, Weissbourd B, Sakai N, Luo L, Nishino S, Dan Y. Basal forebrain circuit for sleep-wake control. *Nature neuroscience*. 2015 Nov 1;18(11):1641-7. *co-first author

Weber F, **Chung S**, Beier KT, Xu M, Luo L, Dan Y. Control of REM sleep by ventral medulla GABAergic neurons. *Nature*. 2015 Oct 15;526(7573):435-8.

