

MAX-PLANCK-INSTITUT FÜR BIOPHYSIKALISCHE CHEMIE
KARL-FRIEDRICH-BONHOEFFER-INSTITUT
GÖTTINGEN



The Max Planck Research Group "Sleep and Waking" (PD Dr. Henrik Bringmann) at the Max Planck Institute for Biophysical Chemistry is looking for a

Ph.D. Student or Postdoc (f/m)
"control and functions of sleep"
(Code Number 02-17)

Sleep is essential for the life of all animals and we feel bad if we don't get enough sleep. Because of its importance, sleep is tightly controlled. Our group is working on the molecular, cellular, and circuit mechanisms underlying sleep using the model systems *C. elegans* and mice. The nematode is a great model system for molecular neurobiology due to its fast generation time, amenability to genetics, small and invariant nervous system, and transparency allowing functional imaging and optogenetics. Despite its simplicity, molecular, cellular, and circuit mechanisms of sleep control are conserved in this system. Mouse models are important for understanding additional layers of complexity and for modeling sleep disorders. Both mammals and *C. elegans* use conserved sleep-active sleep-promoting neurons to control sleep. The lab has just been awarded an ERC grant to study the mechanisms of sleep. The group is looking for a Ph.D. student or Postdoc to work on the mechanisms by which sleep neurons control sleep and the mechanisms of how sleep becomes restorative. Projects are possible for projects in both control and functions of sleep. Projects are possible that use either *C. elegans* or mouse as a model, or both. Methods and approaches used will be molecular genetics, functional imaging, electrophysiology, and optogenetics.

For a Ph.D. student position, candidates should hold a Master's (or equivalent) degree in life science. Postdoc candidates must hold a Ph.D. in life science and should have some background in at least one of the above-mentioned animal models.

The payment and benefits are based on the TVöD guidelines. Postdocs will be paid according to TVöD or will receive a Manfred Eigen Fellowship (<http://www.mpibpc.mpg.de/fellowships>).

The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals.

Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

Applications should include a CV, a list of publications (if applicable) and contact names and addresses of two to four references familiar with the work of the candidate. Please submit all materials preferably in electronic form (as one single PDF file) **via e-mail with reference to the code number until February, 28th 2017 to**

ausschreibung02-17@mpibpc.mpg.de

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