



האוניברסיטה העברית בירושלים
THE HEBREW UNIVERSITY OF JERUSALEM

Postdoc position: The interplay between social behavior and circadian rhythms in bees

We look for an outstanding and self-motivated postdoc to lead a multidisciplinary project. This project aims to test social regulation of circadian rhythms in bees, and how socially regulated circadian plasticity contributes to social organization and the evolution of sociality. We focus on two major systems: 1) Task-related plasticity in circadian system in which plasticity in the circadian clock contributes to division of labor among worker bees. 2) Social synchronization of circadian rhythms. Our recent studies show that substrate-borne vibrations and volatile odorant mediate social synchronization, and we now aim to identify the specific cues and underlying neuronal mechanisms. We have developed unique resources to study this complex system. These include a set of environmental chambers allowing us to carefully study circadian rhythms in bees that are freely foraging outside, circadian transcriptomes for bees performing various social tasks, and CRISPR/Cas9 DNA editing protocols for clock genes.

Required qualifications:

- A PhD degree in Entomology, chronobiology, Zoology, Cell Biology, Biochemistry, Neurobiology, Molecular Biology or related fields
- Relevant lab expertise in biochemistry, bioinformatics, or molecular biology techniques
- An excellent academic record
- Experience in organismal biology (e.g., chronobiology, animal behavior, neuroethology, or ecology) is advantageous.
- Fluent spoken and written English
- Excellent communication and interpersonal skills, ability to work in a team.

We offer a strong, international and interdisciplinary working environment with an open academic atmosphere. Location is the beautiful city of Jerusalem. The position can start immediately or later this summer.

For more details on our research, please see our website: <http://guybloch.huji.ac.il/>. For further information, please contact: Prof. Guy Bloch (guy.bloch@mail.huji.ac.il)