**Sabancı University Post Doc/Graduate Student positions are open in the Mayack Lab**

A master’s student and postdoc position funded by a Turkey TUBITAK grant is available in Christopher Mayack’s lab at Sabancı University located in Istanbul, Turkey. Interested students in becoming a PhD student are welcome to apply as well. The post doc, PhD, and Master’s position can begin as early as February 11th, 2019, although the start date is negotiable. Full research scholarship funding is available for the Master’s and post doc position for two years. Full TAship support is available for four years for interested students in pursuing a PhD.

The project is entitled “Regulation of honey bee appetite independent of the glucose insulin signaling pathway”. This project will be carried out in collaboration with neighboring Batu Erman’s lab at Sabancı University but be led by the Mayack lab. The goal of the project is to determine if appetite levels are linked to fluctuating trehalose levels in the bee hemolymph and to see if this is mediated by octopomine release in the brain. Overall, the project seeks to develop a general theory for how the honey bee forager is able to rapidly and precisely control its appetite with large fluctuating demands in energy consumption. A mechanism independent of the glucose-signaling pathway, which more directly links the energetic state of the individual to appetite levels may play a major role in the rapid and precise regulation of appetite. Students will be involved in measuring honey bee appetite using the Proboscis Extension Assay, injecting sugars and pharmacological reagents into honey bees, quantifying neurotransmitters using HPLC and qPCR, using immunohistochemistry to map octopamine subtype receptors in the bee brain, and CRISPR-CAS-9 techniques for octopamine receptor knockdown.

For the post doc position, the successful candidate will have completed or be near completion of a PhD degree in the area of the neurobiology, insect physiology, or related areas. Experience in conducting brain micro-injections, CRISPR-CAS 9, HPLC, qPCR, and immunohistochemistry for brain mapping is desired. Managing or working with honey bees in the field or lab is considered a plus. The ideal candidate will also have experience in statistics and systems biology for involvement with other ongoing projects.

For more details on how to apply for the **Master’s and PhD position** please click on the link… <https://www.sabanciuniv.edu/en/admissions>

The application deadline for Master’s and PhD student applications is November 16th, 2018.

For **post doc** **inquiries** please send me position send a C.V., contact information for 3 references and a 1-page cover letter describing research interests and background (use email subject line: “Post Doc Fellowship: Mayack Lab”).

Students and post docs will be provided housing, a tuition waiver, health insurance, and a stipend that will more than cover the cost of living expenses in Turkey. Sabanci University is currently ranked as the number one university in Turkey, the molecular facilities and infrastructure within the Molecular Biology, Genetics and Bioengineering program are considered to be state-of-the-art. The Mayack lab is extremely diverse, containing many foreigner students. On an international level Sabancı ranks in the 350-400 best universities in the world and is known to be one of the best emerging universities under the age of 50 years according to the TIME magazine’s higher education rankings.