

Summer training camp, 2025

Time: Aug 4 to Aug 22

Place: National Taiwan University

Life Science Building 3F auditorium for opening, student presentations and symposium; 4th floor Neurobiology lab and 1th floor cell biology lab for general labs

Room 8B07 in Interdisciplinary Research Building for Science and Technology, Academia Sinica

Summary:

The summer training camp is an intensive collaborative lab course held once every year. This year this course will take in 30 students, mostly incoming graduate students from participating PIs' lab, but also highly motivated undergraduates. The course will run from Aug 4 to Aug 22, 5 days a week, and ~8 hr a day. Final presentation will be held on August 21st. By the end of the course, the students not only will know their fellow students very well, they will also learn some of the current neurobiology techniques. In the first week, basic neuroscience techniques, such as perfusion, gross anatomy of the brain, stereotaxic surgery techniques, frozen section, Nissl stain, immunohistochemistry of the brain sections, neuronal culture, and behavior methods will be taught. After this preparatory week, the following weeks will be divided into rotations, in 2-day blocks. There will be 4 rotations. In each station, one or two PI will be in charge. In these stations, there will be labs for calcium and voltage imaging of the culture cell, cellular electrophysiology, field potential recording in the brain slice, synaptic transmission of neuromuscular junction, and behavioral electrophysiology experiments. Hand-on experiments will be emphasized throughout.

Faculties:

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2025 Calendar

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
8/4	8/5	8/6	8/7	8/8	8/9	8/10
Opening Behavior	Behavior	Histology Cell culture	Anatomy, staining			
8/11	8/12	8/13	8/14	8/15	8/16	8/17
Rotation 1		Rotation 2		No class	Taiwanese Neuroscience Society Annual Meeting	
8/18	8/19	8/20	8/21	8/22	8/23	8/24
Rotation 3		No class	Presentation	Symposium		