

## Summer training camp, 2024

**Time:** Aug 5 to Aug 22

**Place:** Life Science Building, National Taiwan University

N100, North Hall, Department of Psychology for opening meeting,

Classroom 4C for student presentations (8/22), and 4<sup>th</sup> floor Neurobiology lab and 1<sup>th</sup> 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 5 to Aug 22, 5 days a week, and ~8 hr a day. Final presentation will be held on August 22nd. 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 3 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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## 2024 Calendar

<b>Monday</b>	<b>Tuesday</b>	<b>Wednesday</b>	<b>Thursday</b>	<b>Friday</b>	<b>Sat</b>	<b>Sun</b>
<b>8/5</b>	<b>8/6</b>	<b>8/7</b>	<b>8/8</b>	<b>8/9</b>	<b>8/10</b>	<b>8/11</b>
<b>Opening Behavior</b>	<b>Behavior</b>	<b>Histology Sectioning Staining</b>	<b>Anatomy, Imaging</b>			
<b>8/12</b>	<b>8/13</b>	<b>8/14</b>	<b>8/15</b>	<b>8/16</b>	<b>8/17</b>	<b>8/18</b>
<b>Rotation 1</b>		<b>Day off</b>	<b>Rotation 2</b>			
<b>8/19</b>	<b>8/20</b>	<b>8/21</b>	<b>8/22</b>	<b>8/23</b>	<b>8/24</b>	<b>8/25</b>
<b>Rotation 3</b>		<b>Day off</b>	<b>Oral Presentation</b>			