

## 國立清華大學第 22 屆新進人員研究獎得獎人簡介

張鈞惠畢業於台灣大學動物學系學士及碩士班，並且於美國密西根大學心理學系生理心理學組取得博士學位，於 2015 年 8 月起任職於清華大學生命科學院系統神經科學研究所。實驗室使用大鼠為模式動物，結合動物行為，藥理學，及神經電生理等等研究方法，探討神經系統如何調控負向情緒。團隊的長期研究目標為了解恐懼學習記憶及表現的神經機制，腦內如何處理訊息，以及動物在正常及病態的狀況下，行為表現的變化。

Dr. Chun-hui Chang got her bachelor and master degrees from Department of Zoology at National Taiwan University, and then pursued Ph.D. in the field of Biopsychology and got the degree from Department of Psychology at University of Michigan in USA. Dr. Chang joined Institute of Systems Neuroscience at National Tsing Hua University in August 2015. Our team use multiple approaches to study the extended fear circuitry in behaving rats, including lesion, pharmacology, pharmacogenetics, and functional tracing. We also use in vivo electrophysiology to look into interactions among brain structures at the circuitry level. The long-term goal is to understand 1) the neural basis of fear learning, memory, and expression, 2) the interactive brain information processing, 3) the adaptive behavioral strategies, and 4) how stress impacts the modulation process.