

# 成大神經•工程論壇, 2018

## NCKU Neuroscience-Engineering Forum 2018, Optogenetics (2018.05.4., NCKU, Tainan, Taiwan)

|                | Title                                                                                          | Speaker                                                                | Moderator                                        |
|----------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--------------------------------------------------|
| 1:20 – 1:30 pm | Opening                                                                                        |                                                                        |                                                  |
| 1:30 – 2:30 pm | Illumination of cortical functions using genetically encoded fluorescent indicators            | Thomas Knöpfel<br>Division of Brain Sciences, Imperial College, London | Kuei-Sen Hsu<br>Department of Pharmacology, NCKU |
| 2:30 – 3:00 pm | Optogenetic modulation of cardiac function                                                     | Shien-Fong Lin<br>Department of Biomedical Engineering, NCTU           |                                                  |
| 3:00 – 3:15 pm | Break                                                                                          |                                                                        |                                                  |
| 3:15 – 3:45 pm | Optogenetic stimulation modulating motor plasticity                                            | Chun-Wei Wu/Jia-Jin Chen<br>Department of Biomedical Engineering, NCKU | Chou-Ching Lin<br>Department of Neurology, NCKU  |
| 3:45 – 4:15 pm | Detection and control of acute and chronic seizures of optogenetic mice                        | Ming-Shaung Ju<br>Department of Mechanical Engineering, NCKU           |                                                  |
| 4:15 – 4:45 pm | Manipulation of Ca <sup>2+</sup> -dependent transcription factor activation using optogenetics | Wen-Tai Chiu<br>Department of Biomedical Engineering, NCKU             |                                                  |
| 4:45 – 5:00 pm | Closing                                                                                        |                                                                        |                                                  |

NCKU: National Cheng Kung University

NCTU: National Chiao Tung University