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About

Dr Chang found the interests of neuroscience in his early undergraduate, and eventually he was fascinated by the physiology of neurons and the neuronal network interactions. To find the answers, Dr Chang equipped himself with different aspects of electrophysiological skills. Currently Dr Chang is doing the post doc training in Prof. John Jefferys' group and he wants to bring the pioneering thoughts from the UK back to his country-Taiwan.

Qualifications

- PhD, Neurophysiology, University of Birmingham, UK
- M.S. Physiology (Neuroendocrinology), National Yang-Ming University, Taiwan
- B.S. Marine Resource, National Sun Yat-Sen University, Taiwan

Research

- Mechanisms of Mesial Temporal Lobe Epilepsy
- High Frequency Activity and Seizure Genesis

Publications

Chang, W.C., Jiruska, P., and Jefferys, J.G.R. (in preparation). High frequency activity preceding epileptic seizures in the high potassium rat hippocampal slice model.

Jiruska, P., Csicsvari, J., Powell, A.D., Fox, J.E., Chang, W.C., Vreugdenhil, M., Li, X., Palus, M.,Bujan, A.F., Dearden, R.W., and Jefferys, J.G. (2010). High-frequency network activity, global increase in neuronal activity, and synchrony expansion precede epileptic seizures in vitro. **J Neurosci**. 30, 5690-5701.

Jiruska, P., Powell, A.D., Chang, W.C., and Jefferys, J.G. (2010). Electrographic high-frequency activity and epilepsy. **Epilepsy Res**. 89, 60-65.

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