CURRICULUM VITAE

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NAME	POSITION TITLE
Lin, Yu-Ling	PhD Student of Neuroscience

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Chinese Culture University, Taiwan	B.S.	2005-2009	Department of Life Science
Chinese Culture University, Taiwan	M.S.	2009-2013	Institute of Biotechnology
National Yang-Ming University, Taiwan	Ph.D.	2013-2015	Institute of Neuroscience
National Yang-Ming University, Taiwan	RA	2015-2017	Institute of Neuroscience
National Yang-Ming University, Taiwan	Ph.D.	2017-present	Institute of Neuroscience

A. Personal statement

I want to investigate the maladaptive modifications in amygdala circuits that regulate emotion and depression during chronic pain in animal models of fibromyalgia. Based on previous studies, the amygdala not only serves a major receiver of purely nociceptive signals, but also a key node of the neural circuits mediating emotional behaviors. Also, the central nucleus of the amygdala (CeA) is a critical site for processing of chronic pain. However, the circuit mechanism by which CeA contributes to the anxiety-like behavior and mechanical sensitivity of pain is unclear. In my research, I found that CeA neurons expressing somatostatin (SST) became hyperexcitable and received enhanced excitatory transmission, whereas CeA neurons expressing protein kinase C delta (PKCδ) became less excitable and received weakened excitatory transmission. Suppressing CeA-SST neurons or activating CeA-PKCδ neurons alleviated heightened pain and comorbid affective symptoms in mice with chronic pain. Therefore, reversing imbalanced inhibitory CeA circuits could be a new therapeutic strategy for chronic pain and its related affective disorders.

B. Publications

Liu M, **Lin YL**, Chen XR, Liao CC, Poo WK. In vitro assessment of Macleaya cordata crude extract bioactivity and anticancer properties in normal and cancerous human lung cells. ***Exp Toxicol Pathol.*** 2013; 65: 775-787.

Liu M, Poo WK, **Lin YL**. Pyrazine, 2-ethylpyridine, and 3-ethylpyridine are cigarette smoke components that alter the growth of normal and malignant human lung cells, and play a role in multidrug resistance development. ***Exp Mol Pathol.*** 2015; 98: 18-26.

C. Honors

Second place of “Oral Competition-International Conference Travel Fellowship” in 2017 TIGP-Interdisciplinary Neuroscience Retreat.

Prize in the poster competition in 2018 EMBO Neural Development Workshop.

First place of “Oral Competition” in the 33th (2018) Joint Annual Conference of Biomedical Science.

Excellent Award of “poster presentation competition" at the 2018 academic papers conference in NYMU.

Received the travel grant from MOST for attending the Society for Neuroscience Annual Meeting (SfN, Neuroscience 2018)

Received the travel allowance from Office of International Affairs (OIA), National Yang-Ming University for attending the Society for Neuroscience Annual Meeting (SfN, Neuroscience 2018)