CURRICULUM VITAE

Zhu-Sen Yang, M.S.
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NAME	POSITION TITLE
Yang, Zhu-Sen	PhD Student of Nrueoscience

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Tzu Chi University, Taiwan	B.S.	2015-2019	Department of Molecular Biology and Human Genetic
National Yang -Ming Chiao Tung University,Taiwan	M.S.	2019-2021	Institute of Neuroscience
National Yang -Ming Chiao Tung University,Taiwan	PhD	2021-present	Institute of Neuroscience

Personal statement

My research focuses on the behaviors related to amygdala. The amygdala is involved in various pathways and responds to distinctive behaviors. The amygdala regions can be divided into four parts: basolateral amygdala (BLA), lateral amygdala (LA), central nucleus of amygdala (CeA), and intercalated cells (ITC). In my M.S. program, I applied Pregabalin (PGB, also known as Lyrica®) locally into the CeA through cannula infusion in the mice with muscle pain (MP). Also, I performed both c-Fos labeling system (TRAP) to label the pain-related c-Fos^{+} neurons in MP mice and chemogenetic method to specifically inhibit the neurons. As a consequence, I found that the local application of PGB into the CeA in the early phase prevented mechanical allodynia and pain-related affective disorders in FM mice.

Publications

Yu-Ling Lin, Wai-Yi Wang, **Zhu-Sen Yang**, Shuu-Jiun Wang, Shih Pin Chen, Jen-Jun Cheng, Hui Lu, and Cheng-Chang Lien (under review) A supraspinal mechanism of calcium channel α2δ subunit antagonism for chronic muscle pain and comorbid affective disorders.

Zhu-Sen Yang, Yu-Ling Lin, and Cheng-Chang Lien. The supraspinal mechanism of Pregabalin in a fibromyalgia-like mouse model. Poster session presented at the 35th Joint Annual Conference of Biomedical Science (2021)

Zhu-Sen Yang and Cheng-Chang Lien. Labeling and manipulating sensitized neurons in chronic muscle pain. Oral and Poster session presented at the 2021 Joint symposium on Recent Advance in Neuroscience (2021) (2021 TSFN)

Honors

Excellent Award of “poster presentation competition” at the 35th (2021) Chinese Physiological Society Annual Meeting Program