CURRICULUM VITAE

Hung-Chang Shen, Ph.D.

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NAME	**POSITION TITLE**
Shen, Hung-Chang	Post-Doctoral Fellow of Neuroscience

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
National Chiayi University, Taiwan	B.S.	2005-2009	Microbiology and Immunology (Mentor: Ching Li)
National University of Tainan, Taiwan	M.S.	2009-2011	Molecular Biology (Mentor: Te-Sheng Chang)
National Defense Medical Center, Taiwan	Ph.D.	2011-2017	Neuroscience (Mentor: Hung-Hsiang Yu)
National Yang-Ming University, Taiwan	Postdoc	2017-present	Neuroscience/Electrophysiology (Supervisor: Cheng-Chang Lien)

Personal statement

Cognition is the mystery within animal evolution. Decrypting the function of the brain is fascinating research for me. The brain is composed of various types of neurons. Knowing how these neurons intermingle together to become functional connections will understand the connectome of the brain. In my Ph. D. program, I tried to understand how neurons find their final target region through the developmental stage. I found a molecule, semaphorin-1a, mainly involved in pathfinding during the pupal developmental stage of the Drosophila. To better understand neurons communicated through the circuits in the brain, I want to study the functional activity between neurons. Joining the Lien lab allows me to explore how mGlu5 receptors modulate anxiety effects in the hippocampus.

Honors

2017 Honor of Ph. D. Student Thesis Research Award, National Defense Medical Center.
2016 Gold award of Ph. D. Student Research Poster Award, National Defense Medical Center.
2015 Excellent Poster Award of Institute of Cellular and Organismic Biology, Academia Sinica

Publications

1. Wei YT, Wu JW, Yeh CW, Shen HC, Wu KP, Vida I, Lien CC (2021 Jul) Morpho-physiological properties and connectivity of vasoactive intestinal polypeptide-expressing interneurons in the mouse hippocampal dentate gyrus. J Comp Neurol. 1;529(10):2658-2675. doi: 10.1002/cne.25116.
2. Tsai-Chi Hsu, Kai-Yuan Ku, Hung-Chang Shen, Hung-Hsiang Yu (2020). Overview of MARCM-Related Technologies in Drosophila Neurobiological Research. Current Protocols in Neuroscience, 91(1): e90.

3. Hung-Chang Shen, Sao-Yu Chu, Tsai-Chi Hsu, Chun-Han Wang, I-Ya Lin, Hung-Hsiang Yu (2017, Apr). Semaphorin-1a prevents Drosophila olfactory projection neuron dendrites from mis-targeting into select antennal lobe regions. PLOS Genetics, 13(4): e1006751. (SCI). MOST 103-2321-B-001-023.
4. Hung-Chang Shen, Tsai-Chi Hsu, Pei-Chi Chung, Hung-Hsiang Yu (2017, Mar). Cell Lineage Analyses and Gene Function Studies Using Twin-spot MARCM. Journal of Visualized Experiments, (121), e55278. (SCI). MOST 104-2311-B- 001-034.
5. Hung-Chang Shen, Jia-Yi Wei, Sao-Yu Chu, Pei-Chi Chung, Tsai-Chi Hsu, Hung-Hsiang Yu (2016, May). Morphogenetic Studies of the Drosophila DA1 Ventral Olfactory Projection Neuron. PLOS One, 11(5), e0155384. (SCI). MOST 103-2321-B-001-023