
CURRICULUM VITAE

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NAME Hou, Wen-Hsien	POSITION TITLE Ph.D. of Neuroscience
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EDUCATION/TRAINING			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
National Tsing Hua University, Taiwan	B.S.	09/2007-07/2011	Department of Life Science
National Yang-Ming University, Taiwan	Ph.D.	09/2011-07/2016	Institute of Neuroscience (Mentor: Cheng-Chang Lien)
National Yang-Ming University, Taiwan	Postdoctoral Researcher	08/2016-12/2016	Institute of Neuroscience
Aarhus University, Denmark	Postdoctoral Researcher	01/2018-present	Department of Biomedicine

A. Personal statement.

Fear is a highly conserved emotional process among species. One of the key brain region that gates the output of fear and controls fear learning is the lateral subdivision of the central amygdala (CeL). The CeL, a small core that is composed of over 90% intermingled GABA (γ -aminobutyric acid)-ergic neurons, is considered to provide tonic inhibition to tune the downstream amygdala region. In the past 4 years, I focused on the heterogeneity of CeL neurons and mapping the CeL GABAergic synapses by exploring the expression of functional marker (somatostatin), electrical properties, neurotransmissions, and the short-term plasticity of CeL synapses. My recent projects regard the role of GABAergic neuron types of amygdala on inhibitory synaptic plasticity and behavior in transgenic mice.

Techniques & Skills

Electrophysiology: *in vitro* whole-cell recording, *in vivo* multi-unit, EEG, and EMG recording
Optogenetics
Animal surgery and training for behavioral experiments

B. Position and Honors.

Other Experience and Professional Memberships

American Neuroscience Society
European Neuroscience Society
Taiwanese Neuroscience Society

Fellowships/Grants/Awards

2013 Poster competition award, Neuroscience society of Taiwan.

2013 Accepted direct-promotion fellowship from institute of neuroscience, National Yang-Ming University, Taiwan.

2012 Poster competition award, National Yang-Ming University, Taiwan.

2009 Accepted summer research fellowship from the National Health Research Institute, Taiwan.

Oral presentations

2014 The 2nd Taiwan-Tohoku University Neuroscience Workshop for Young Scientists

Work experience

2011 Teaching assistant, National Tsing Hua University, Taiwan.

2007 Math, English, and Nature Science in private school.

C. Publications (in reverse chronological order).

1. **WH Hou**, M Capogna (2018). Dendritic Inhibition in Layer 1 Cortex Gates Associative Memory. *Neuron* 100(3), 516-519

2. Kuo YL, Cheng JK, **Hou WH**, Chang YC, Du PH, Jian JJ, Rau RH, Yang JH, Lien CC, Tsaur ML (2017). K⁺ channel modulatory subunits KChIP and DPP participate in Kv4-mediated mechanical pain control. *Journal of Neuroscience* 37(16): 4391-4404.

3. Lee CT, Kao MH, **Hou WH**, Wei YT, Chen CL, Lien CC (2016). Causal evidence for the role of specific GABAergic interneuron types in entorhinal recruitment of dentate granule cells. *Scientific Reports* 6: 36885.

4. **Hou WH**, Kuo N, Fang GW, Huang HS, Wu KP, Zimmer A, Cheng JK, Lien CC (2016). Wiring Specificity and Synaptic Diversity in the Mouse Lateral Central Amygdala. *Journal of Neuroscience* 36(16): 4549-4563.

5. Wu CC, Lien CC, **Hou WH**, Chiang PM, Tsai KJ (2016). Gain of BDNF function in engrafted neural stem cells promotes the therapeutic potential for Alzheimer's disease. *Scientific Reports* 6:27358.

6. Chang CP, Lee CT, **Hou WH**, Lin MS, Lai HL, Chien CL, Chang C, Cheng PL, Lien CC, Chern Y (2016). Type VI adenylyl cyclase negatively regulates GluN2B-mediated LTD and spatial reversal learning. *Scientific Reports* 6(22529): 1-16.

Others

1. 連正章、**侯文賢**、王凱誼、高敏華。用光與化學分子控制大腦！《科學月刊 (Science Monthly)》第 559期/ 2016年7月號 第526-531頁。