Wen-Hsien Hou

Department of Biomedicine
Aarhus University
Aarhus C, 8000 Denmark

Email: wen-hsien.hou@biomed.au.dk
ORCID: 0000-0002-8078-5463

Education

09/2007-07/2011 B.Sc. in Life Science
National Tsing Hua University, Taiwan

09/2011-07/2016 Ph.D. in Neuroscience
National Yang-Ming University, Taiwan

Research Positions

01/2018-12/2021 Postdoctoral research fellow
Aarhus University, Denmark
Team leader: Marco Capogna

01/2022-12/2022 Assistant professor
Aarhus University, Denmark
Team leader: Marco Capogna

01/2023-present Assistant professor
Aarhus University, Aarhus, Denmark
Team leader: Jelena Radulovic

Positions and Employment

2011-2016 Graduate Student Researcher, Institute of Neuroscience, National Yang-Ming University, Taiwan
2016-2016 Postdoctoral fellow, Institute of Neuroscience, National Yang-Ming University, Taiwan
2018-2021 Postdoctoral fellow, Department of Biomedicine, Aarhus University, Denmark
2022-present Assistant professor, Department of Biomedicine, Aarhus University, Denmark

Academic and Professional Honors

2013 Best Poster Award, Annual Meeting of Taiwanese Neuroscience Society
2013 Ph.D. fellowship from the Institute of Neuroscience, National Yang-Ming University, Taiwan (2 years)
2018 The Brain Prize and FENS stipend to attend the Fall Brain Conference 2018.
2019 The Gordon Research Seminar stipend to attend the Inhibition in the CNS Conference 2019
2021 MOST-Taiwan abroad postdoctoral fellowship ($45,000/1 year)
2023 The Brain Prize and FENS stipend to attend the Fall Brain Conference 2023

Invited talks

2014 The 2nd Taiwan-Tohoku University Neuroscience Workshop for Young Scientists (14 Dec, Tohoku, Japan)
2019 PhD seminar in the Institute of Neuroscience (5 May, Taipei, Taiwan)
2019 The Gordon research seminar: Inhibition in the CNS. (7 Jul, Newry ME, USA)
2021 The Danish society for Neuroscience: Brain states and beyond (14 Oct, Copenhagen, Denmark)

Collaborations

2018-present Collaboration with Duda Kvistiani and Sadegh Nabavi labs, Aarhus University, Aarhus, Denmark.

2022-present Collaboration with Konstantin Khodosevich lab, Copenhagen University, Copenhagen, Denmark.

Publications

1. Ozsvar A, Sieburg MC, Sietam MD, **Hou WH***, Capogna M. (2024) A combinatory genetic strategy for targeting neurogliaform neurons in the mouse basolateral amygdala. Front. Cell. Neurosci. 18 doi: 10.3389/fncel.2024.1254460. (corresponding author)

2. **Hou WH***, Jariwala M*, Wang KY, Seewald A, Lin YL, Ricci A, Ferraguti F, Lien CC, Capogna M. (2023) Inhibitory fear memory engram in the mouse central lateral amygdala. Biorxiv. https://doi.org/10.1101/2023.11.30.565632.

3. Faress I, Khalil V*, **Hou WH***, Moreno A, Andersen N, Fonseca R, Piriz J, Capogna M, Nabavi S. (2023) Non-Hebbian plasticity transforms transient experiences into lasting memories. eLife 12:RP91421. https://doi.org/10.7554/eLife.91421.1 (co-second author)

4. Lee BR, Dalley R, Miller JA, ... **Hou WH**, Capogna M., … Ting JT. (2023). Signature morphoelectric properties of diverse GABAergic interneurons in the human neocortex. Science 382(6667), eadf6484. https://doi.org/10.1126/science.adf6484

5. Szabo GG, Farrell JS, Dudok B, **Hou WH**, Ortiz AL, Varga C, Moolchand P, Gulsever CI, Gschwind T, Dimidschstein J, Capogna M, Soltesz I (2022). Ripple-selective GABAergic projection cells in the hippocampus. Neuron. 110(12):1959-1977.e9.

6. 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.

7. 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.

8. **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.

9. 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.

10. 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.