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Ph.D. Candidate

Interdepartmental Graduate Program in Neuroscience,
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CURRICULUM VITAE

Education & professional experience

- 2022—present **Ph.D. Student (Neuroscience)** advanced to candidacy
Interdepartmental Graduate Program in Neuroscience,
Department of Molecular, Cell and Systems Biology, University of California, Riverside, CA, USA.
Supervisor: Dr. Vijayalakshmi Santhakumar
- 2020—2022 **Research Assistant**
Institute of Neuroscience, National Yang Ming Chiao Tung University, Taiwan.
Supervisor: Dr. Cheng-Chang Lien
- 2017—2020 **M.Sc. (Neuroscience)** awarded on Jul. 16th, 2020
Institute of Neuroscience, National Yang-Ming University, Taiwan.
Thesis: [Morpho-physiological properties of hippocampal dentate granule cells in the *Blm-s* knockout mice.](#)
Supervisor: Dr. Cheng-Chang Lien
- 2013—2017 **B.Sc. (Medical technology)** awarded on Jun. 10th, 2017
Department of Medical Laboratory and Biotechnology, Chung Shan Medical University, Taiwan.
Research: [Study of the anti-tumor progression effect and molecular mechanisms of tricetin on C6 glioma cells.](#)
Supervisor: Prof. Tsui-Hwa Tseng

Abilities & professional skills

1. *ex vivo* neurophysiology and patch-clamping
2. Stereotaxic surgery and anatomical connectivity mapping
3. Protein biochemical analysis
4. Confocal microscopy and 3D morphological reconstruction
5. Animal pharmacology and behavioral test
6. Cell line culture and *in vitro* tumor progression test
7. Animal management and genotyping
8. MATLAB coding for electrophysiological data analysis

Publications

1. Jin X, Xie J, [Yeh CW](#), Li YJ, Lien CC, & Huang CL*. Central osmolality sensing for arginine vasopressin release is mediated by WNK1-OSR1/SPAK-Kv3.1 cascade. *Federation of American Societies for Experimental Biology (FASEB) Journal* **2025**; accepted
2. Li YJ, [Yeh CW](#), Abdulmajeed WI, Ajibola MI, and Lien CC*. Morpho-physiological diversity of cholecystokinin-expressing interneurons in the dentate gyrus. *Journal of Physiological Investigation* **2024**; 67(5):258-269.
3. Ramos-Prats A, Matulewicz P, Edenhofer ML, Wang KY, [Yeh CW](#), Fajardo-Serrano A, Kress M, Kummer K, Lien CC, and Ferraguti F*. Loss of mGlu5 receptors in somatostatin-expressing neurons alters negative emotional states. *Molecular psychiatry* **2024**;29(9):2774-2786.
4. Proddutur A, Nguyen S#, [Yeh CW](#)#, Gupta A, and Santhakumar V* (#equal contribution). *Reclusive chandeliers*: functional isolation of dentate axo-axonic cells after experimental status epilepticus. *Progress in Neurobiology* **2023**; 231:102542.
5. [Yeh CW](#)# and Huang A#. (#co-first author) *Deathtouch*: The long and selective reach of proneurotrophin shapes neurodegeneration after concussive brain injury. *eNeuro* **2023**; 10(10) ENEURO.0340-23.2023.
6. Jin X, Xie J, [Yeh CW](#), Chen JC, Cheng CJ, Lien CC*, and Huang CL*. WNK1 promotes water homeostasis by acting as a central osmolality sensor for arginine vasopressin release. *Journal of Clinical Investigation* **2023**; 133(11):e164222.
7. Huang PH*, Yang TY#, [Yeh CW](#)#, Huang SM#, Chang HC#, Hung YF#, Chu WC, Cho KH, Lu TP, Kuo PH, Lee LJ, Kuo LW, Lien CC, and Cheng HJ (#equal contribution). Involvement of a BH3-only apoptosis sensitizer gene *Bim-s* in hippocampus-mediated mood control. *Translational Psychiatry* **2022**; 12(1):411.
8. Wei YT, Wu JW, [Yeh CW](#), Shen HC, Wu KP, Vida I, and Lien CC*. Morpho-physiological properties and connectivity of vasoactive intestinal polypeptide-expressing interneurons in the mouse hippocampal dentate gyrus. *Journal of Comparative Neurology* **2021**; 529(10):2658-2675.
9. Chung DJ#, Wang CJ#, [Yeh CW](#)#, and Tseng TH* (#co-first author). Inhibition of the proliferation and invasion of C6 glioma cells by tricin via the upregulation of focal-adhesion-kinase-targeting microRNA-7. *Journal of Agricultural and Food Chemistry* **2018**; 66(26):6708-6716.

Selected conference presentations

1. [Yeh CW](#), Proddutur A, and Santhakumar V*. (Jul. 2025) Evaluating transgenic approaches to analyze dentate gyrus axo-axonic cells. Gordon Research Conference (GRC): Inhibition in the CNS. Maine (ME), USA.
2. [Yeh CW](#), Li YJ, and Lien CC*. (Mar. 2022) Endocannabinoid signaling gates cortical-hippocampal input-driven granule cell recruitment via cholecystokinin interneurons. *The 36th Joint Annual Conference of Biomedical Science (JACBS)*. Taipei, Taiwan.
3. [Yeh CW](#), Wang KY, Ajibola MI, Abdulmajeed WI, Cheng HJ, Huang PH, and Lien CC*. (Jun. 2021) Morpho-physiological properties of hippocampal dentate granule cells in the *Bim-s* knockout mice. *The 35th Joint Annual Conference of Biomedical Science (JACBS)*. Taipei, Taiwan.
4. [Yeh CW](#), Wang KY, Ajibola MI, Abdulmajeed WI, Cheng HJ, Huang PH, and Lien CC*. (Jun. 2020) Morpho-physiological properties of hippocampal dentate granule cells in the *Bim-s* knockout mice. *NYMU-INS 40th anniversary event*. Taipei, Taiwan.
5. [Yeh CW](#) and Tseng TH*. (Mar. 2017) Tricin, an O-methylated flavonoid, inhibits C6 glioma cell progression *in vitro*. *The 32nd Joint Annual Conference of Biomedical Science (JACBS)*. Taipei, Taiwan.

Honors

- 2022 **Dean's Distinguished Fellowship**
Graduate Division, University of California, Riverside, CA, USA.
- 2021 **Excellent Award**
Poster Competition at the 35th Joint Annual Conference of Biomedical Science (JACBS), Taiwan.
- 2020 **Finalist Prize**
Poster Competition at NYMU-INS 40th anniversary event, Taiwan.
- 2016 **College Student Research Scholarship**
Ministry of Science and Technology (MOST), Taiwan.

Ad hoc peer review for scientific journals (in alphabetical order)

Cell Reports ^{2022*}, Epilepsia ^{2025*}, ^{2025*}, Epilepsy Research ^{2025*}, Experimental Neurology ^{2024*}, ^{2024*}, ^{2025*},
Journal of Comparative Neurology ²⁰²³, Journal of Neuroscience ^{2023*}, ^{2025*}, Progress in Neurobiology ^{2024*},
Science Translational Medicine ²⁰²⁴

(*co-review)

Professional credential

- 2017 Registration in Medical Technologist (MT), Taiwan.

Service and Mentorship

Hosted visiting scholars as student host in UCR neuroscience program seminar series

- 2024 Dr. Jenny Hsieh, University of Texas at San Antonio, TX, USA.
2024 Dr. Chao Yan, Nanjing University, Jiangsu, China.
2025 Dr. Beth Lopour, University of California, Irvine, CA, USA.
2025 Dr. Farah Lubin, University of Alabama at Birmingham, AL, USA.

Mentored 3 graduate students & 1 undergraduate student

Yu-Jui Li, M.Sc. (High Distinction Award of Poster Competition at the 38th JACBS meeting)
Hui-Chi Chiang, B.Sc. (Dean's Award for Excellent Research from the *College of Life Sciences, NYCU*)
Zhu-Sen Yang, M.Sc. (Excellent Award of Poster Competition at the 35th JACBS meeting)
Chien-Ting Kuo, M.Sc.

References

Dr. Vijayalakshmi Santhakumar (Ph.D. thesis supervisor) vijayas@ucr.edu

Department of Molecular, Cell and Systems Biology, University of California, Riverside, CA, USA.

Dr. Cheng-Chang Lien (M.Sc. thesis supervisor) cclien@nycu.edu.tw

Institute of Neuroscience, National Yang Ming Chiao Tung University, Taiwan.

Prof. Tsui-Hwa Tseng (undergraduate research supervisor) tth@csmu.edu.tw

Department of Medical Applied Chemistry, Chung Shan Medical University, Taiwan.

Collaborators

- Dr. Chou-Long Huang (chou-long-huang@uiowa.edu) University of Iowa, IA, USA.
Dr. Francesco Ferraguti (francesco.ferraguti@i-med.ac.at) Medical University of Innsbruck, Innsbruck, Austria.
Dr. Hwai-Jong Cheng (hjcheng@gate.sinica.edu.tw) Academia Sinica, Taiwan.
Dr. Pei-Hsin Huang (phhuang@ntu.edu.tw) National Taiwan University, Taiwan.
Dr. Shih-Chieh Lin (shihchieh.lin@nycu.edu.tw) National Yang Ming Chiao Tung University, Taiwan.

