


## CV Form

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<b>Affiliation(s)(中/英文)</b>	國立政治大學/ National Chengchi University	
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### 個人簡歷 (No more than an A4 size paper)

#### Education/Training:

1983-1988: B.S. Department of Pharmacy, China Medical College, Taiwan

1988-1990: M.S. Department of Pharmacology, National Taiwan University, Taiwan

1992-1997: Ph.D. Department of Pharmacology & Toxicology, The University of Mississippi Medical Center, USA

#### Professional and Research Experience:

2012.8-present: Professor, Institute of Neuroscience, National Chengchi University

2015.8-2017.7: Vice-Dean, College of Science, National Chengchi University.

2012.8- 2018.7; 2024-present: Professor and Chair, Institute of Neuroscience, National Chengchi University

#### Awards and Honors:

Sigma  $\chi$  Graduate Student Research Award, 1996.

Tzu Chi University Research Award, 2002-2009.

Overseas Scholarship, National Science Council, Taiwan 2010.

National Chengchi University Research Award, 2014.

Excellent Presentation Award for AsCNP 2019 Category: Senior Researcher

### **Selected Publications: (2020-2026)**

1. **Chan MH**, Chen HH, Lo YC, Wu SN. 2020. Effectiveness in the block by honokiol. A dimerized allylphenol from *Magnolia officinalis*, of Hyperpolarization-activated cation current and delayed-rectifier K<sup>+</sup> current. *Int J Mol Sci* 21: 4260.
2. Lee MY, Lin BF, **Chan MH\***, Chen HH\*. 2020. Increased behavioral and neuronal responses to a hallucinogenic drug after adolescent toluene exposure in mice: effects of antipsychotic treatment. *Toxicology* 445: 152602.
3. Hsieh CP, Chen H, **Chan MH**, Chen L, Chen HH. 2020. N,N-dimethylglycine prevents toluene-induced impairment in recognition memory and synaptic plasticity in mice. *Toxicology* 446: 152613.
4. Hsieh CP, Chang WT, Chen L, Chen HH, **Chan MH\***. 2021. Differential inhibitory effects of resveratrol on excitotoxicity and synaptic plasticity: involvement of NMDA receptor subtypes. *Nutritional Neuroscience* 24:443-458.
5. Szkudelska K, **Chan MH**, Okulicz M, Jasaszwili M, Szkudelski T. 2021. Betaine supplementation to rats alleviates disturbances induced by high-fat diet: pleiotropic effects in model of type 2 diabetes. *Journal of Physiology and Pharmacology*, 72(5): 763-775.
6. Hsieh CP, Chen ST, Lee MY, Huang CM, Chen HH\*, **Chan MH\*** 2021. N, N-dimethylglycine Protects Behavioral Disturbances and Synaptic Deficits Induced by Repeated Ketamine Exposure in Mice. *Neuroscience*, 472, 128-137.
7. Chen ST, Hsieh CP, Lee MY, Chen LC, Huang CM, Chen HH\*, **Chan MH\*** 2021. Betaine prevents and reverses the behavioral deficits and synaptic dysfunction induced by repeated ketamine exposure in mice. *Biomedicine & Pharmacotherapy*, 144, 112369.
8. Sung CW, Chang WT, **Chan MH**, Kuo TH, Chen HH. 2022. L-4-Fluorophenylglycine produces antidepressant-like effects and enhances resilience to stress in mice. *Biomedicine & Pharmacotherapy*, 155, 113726.
9. Lee MY, Hsieh CP, **Chan MH**, Chen HH. 2022. Beneficial effects of atypical antipsychotics on object recognition deficits after adolescent toluene exposure in mice: involvement of 5-HT1A receptors. *Am J Drug Alcohol Abuse*. 22: 1-11.
10. Shiao YC, Lee MY, **Chan MH**, Chen HH. 2023. NMDA receptor glycine binding site modulators for prevention and treatment of ketamine use disorder. *Pharmaceuticals (Basel)* 16: 812.
11. Chen LC, **Chan MH**, Chen HH. 2023. Extinction and reinstatement of methamphetamine induced conditioned place preference in zebrafish. *Addiction Biology*, 28: e13351.
12. LC Chen, HH Chen, **MH Chan\***. 2024. Calcium channel inhibitor and extracellular calcium improve aminoglycoside-induced hair cell loss in zebrafish. *Archives of Toxicology*. 98: 1827-1842.
13. LC Chen, **MH Chan\***, HH Chen\*. 2024. Comparative Assessment of the Addictive Potential of Synthetic Cathinones by Zebrafish Conditioned Place Preference (CPP) Paradigm. *Life*. 14: 820.
14. M Bishir, M Vigorito, MH Chan, M Khan, SL Chang (2025, Feb). Alcohol consumption modulates the development of chronic pain in COVID-19 patients: A network meta-analysis.

*ACS Pharmacol Transl Sci*, 8(2): 409-422.

15. YJ Wand\*, E Hwang, HH Chen\*, **MH Chan\***, CJ Yeh, YX Liu, CH Huang. (2025, Mar). Fluvastatin, an HMG-CoA reductase inhibitor, exerts protective effect against NMDA-induced seizure by increasing the seizure threshold and modulating membrane excitability in embryonic rat cortical neuron. *Brain Research*. 1850: 149403.
16. WT Chang, MY Lee, YJ Wang, WC Huang, CP Hsieh, CW Tung, **MH Chan\***, HH Chen\*. (2025, Dec). A new perspective on betaine: Targeting the glycine binding site of the NMDA receptor. *Biochemical Pharmacology*, 242: 117213. NSTC110-2324-B-400-MY3.
17. CP Hsieh, MY Lee, CY Lin, **MH Chan**, HH Chen. (2026). Protective effects of sodium benzoate against toluene-induced reward enhancement, behavioral disturbances, and impaired synaptic plasticity in mice. *Neurotoxicology*. 113:103403.