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現職/ Current Position

國立中山大學學士後醫學系-助理教授
國立中山大學生技醫藥研究所-合聘助理教授
國立中山大學精準醫學研究所-合聘助理教授

School of Medicine, National Sun Yat-sen University - Assistant Professor
Institute of BioPharmaceutical, National Sun Yat-sen University - Jointly
Appointed Assistant Professor
Institute of Precision Medicine, National Sun Yat-sen University - Jointly
Appointed Assistant Professor

學歷/ Education

博士：臺北醫學大學藥學系博士班，2019
學士：嘉南藥理大學藥學系，2010
Ph. D.: School of Pharmacy, Taipei Medical University, 2019
B. A.: Department of Pharmacy, Chia Nan University of Pharmacy & Science,
2010

專長/ Expertise

藥物設計、藥物化學、電腦輔助藥物設計、基於結構的虛擬篩選
Drug Design、Medicinal Chemistry、Computer-Aided Drug Design (CADD)、
Structure-Based Virtual Screening (SBVS)

專科執照/ Professional Certifications

藥師證書

經歷/ Professional Experience

2021-2023 博士後學者，南加州大學，藥學院
2019-2021 博士後研究員，香港中文大學深圳，瓦謝爾計算生物研究院
2021-2023 Postdoctoral Scholar, School of Pharmacy, University of Southern
California
2019-2021 Post-doctoral Fellow, Warshel Institute for Computational Biology,
The Chinese University of Hong Kong, Shenzhen

學術榮譽/ Academic Honors

臺灣-南加大博士後研究獎助金 (2021-2023)
2018 台灣藥學會藥物化學研討會 壁報佳作

2012 臺灣藥學會年會暨學術研討會 口頭報告

學術期刊審稿人：Phytomedicine, ACS Chemical Neuroscience, Process

Biochemistry, Frontiers in Chemistry, Heliyon.

Taiwan-USC Postdoctoral Fellowship Program of Ministry of Education (2021-2023).

Best Poster Presentation Award in 2018 PST Medicinal Chemistry Symposium

Excellence Oral Presentation Award in 2012 Annual Conference of The Pharmaceutical Society of Taiwan

Referee of Scientific Journals: Phytomedicine, ACS Chemical Neuroscience,

Process Biochemistry, Frontiers in Chemistry, Heliyon.

教學榮譽/ Teaching Honors

教學優良課程：

112-1 「探索藥物：現實與電影中的藥物(GEAI1950)」

112-2 「藥物獵人：天然物與藥物化學(GEAI1962)」

112-2 「藥與毒：藥物濫用(GEAI1963)」

主持研究計畫(近三年)

113 年度奇美醫療財團法人奇美醫院與國立中山大學合作研究計畫：藉由虛擬篩選計算平台開發改善抗癌藥物造成心毒性之轉譯醫學研究

Chi Mei Medical Center and National Sun Yat-sen University Joint Research Program, Using the virtual screening computing platform to discover the drugs with potentials to improve anti-cancer therapy induced cardiotoxicity - a translational approach

研究成果目錄/ List of Research Outputs

- 英文期刊論文/ English Journal Articles
- 1. Chang-Hang Yang[#], Cai-Wei Li, Yi-Yan Sie, **Liang-Chieh Chen**[#], Yu-Hsiang Yuan, Wen-Chi Hou. Antioxidant, anti-acetylcholinesterase, and anti-amyloid- β peptide aggregations of hispolon and its analogs in vitro and improved learning and memory functions in scopolamine-induced ICR mice. *Botanical Studies* **2024**, 65, 38.
- 2. Elisa N. Stephens[#], **Liang-Chieh Chen**[#], Arshad J. Ansari[#], Kaiyu Shen, Lei Zhang, Steven G. Guillen, Clay C. C. Wang, Yong Zhang. Discovery of PARP1-Sparing Inhibitors for Protein ADP-Ribosylation. *ACS Med. Chem. Lett.* **2024**, 15, 1940.
- 3. Hyo Sun Kim[#], Kimia Hariri[#], Xiao-Nan Zhang[#], **Liang-Chieh Chen**, Benjamin B. Katz, Hua Pei, Stan G. Louie, Yong Zhang. Synthesis of Site-Specific Fab-Drug Conjugates Using ADP-Ribosyl Cyclases. *Protein Sci.* **2024**, 33(4), e4924.
- 4. Yi-Yan Sie[#], **Liang-Chieh Chen**, Cai-Wei Li[#], Ching-Chiung Wang, Cai-Jhen Li, Der-Zen Liu, Mei-Hsien Lee, Lih-Geeng Chen*, Wen-Chi Hou*. Extracts and Scirpusin B from Recycled Seeds and Rinds of Passion Fruits (*Passiflora edulis* var. Tainung No. 1) Exhibit Improved Functions in Scopolamine-Induced Impaired-Memory ICR Mice. *Antioxidants* **2023**, 12, 2058.
- 5. Yi-Yan Sie[#], **Liang-Chieh Chen**[#], Cai-Jhen Li, Yu-Hsiang Yuan, Sheng-Hung Hsiao, Mei-Hsien Lee, Ching-Chiung Wang*, Wen-Chi Hou*. Inhibition of Acetylcholinesterase and Amyloid- β Aggregation by Piceatannol and Analogs: Assessing In Vitro and In Vivo Impact on a Murine Model of Scopolamine-Induced Memory Impairment. *Antioxidants* **2023**, 12, 1362.

6. Jung-Chun Chu[#], Hui-Ju Tseng[#], Sung-Bau Lee, Kai-Cheng Hsu, Ling-Wei Hsin, Ru-Hao Liang, Tony Eight Lin, Nain-Chu Gao, **Liang-Chieh Chen**, Wan-Hsun Lu, Andrew H.-J Wang, Wei-Jan Huang*. Synthesis and biological evaluation of C-4 substituted phenoxazine-bearing hydroxamic acids with potent class II histone deacetylase inhibitory activities. *J. Enzyme. Inhib. Med. Chem.* **2023**, 38:1.
7. Shih-Chung Yen[#], Yi-Wen Wu[#], Cheng-Chiao Huang[#], Min-Wu Chao, Huang-Ju Tu, **Liang-Chieh Chen**, Tony Eight Lin, Tzu-Ying Sung, Hui-Ju Tseng, Jung-Chun Chu, Wei-Jan Huang, Chia-Ron Yang, Wei-Chun HuangFu, Shiow-Lin Pan*, Kai-Cheng Hsu*. O-methylated flavonol as a multi-kinase inhibitor of leukemogenic kinases exhibits a potential treatment for acute myeloid leukemia. *Phytomedicine* **2022** 100, 154061.
8. Shih-Chung Yen[#], **Liang-Chieh Chen**[#], Han-Li Huang, Wei-Chun HuangFu, Yi-Ying Chen, Tony Eight Lin, Ssu-Ting Lien, Hui-Ju Tseng, Tzu-Ying Sung, Jui-Hua Hsieh, Wei-Jan Huang, Shiow-Lin Pan, Kai-Cheng Hsu*. Identification of a dual FLT3 and MNK2 inhibitor for acute myeloid leukemia treatment using a structure-based virtual screening approach. *Bioorg. Chem.* **2022**, 121, 105675.
9. Yi-Wen Wu[#], Min-Wu Chao[#], Huang-Ju Tu, **Liang-Chieh Chen**, Kai-Cheng Hsu, Jing-Ping Liou, Chia-Ron Yang, Shih-Chung Yen, Wei-Chun HuangFu*, and Shiow-Lin Pan*. A novel dual HDAC and HSP90 inhibitor, MPT0G449, downregulates oncogenic pathways in human acute leukemia in vitro and in vivo. *Oncogenesis* **2021**, 10, 39.
10. Jui-Yi Hsu, Ashish Rao Sathyan, Kai-Cheng Hsu, **Liang-Chieh Chen**, Cheng-Chung Yen, Hui-Ju Tseng, Kun-Chang Wu, Hui-Kang Liu*, and Wei-Jan Huang*. Synthesis of yakuchinone B-inspired inhibitors against islet amyloid polypeptide aggregation. *J. Nat. Prod.* **2021**, 84, 1096–1103.
11. Shih-Chung Yen[#], **Liang-Chieh Chen**[#], Han-Li Huang, Sin-Ting Ngo, Yi-Wen Wu, Tony Eight Lin, Tzu-Ying Sung, Ssu-Ting Lien, Hui-Ju Tseng, Shiow-Lin Pan, Wei-Jan Huang*, and Kai-Cheng Hsu*. Investigation of selected flavonoid derivatives as potent FLT3 inhibitors for the potential treatment of acute myeloid leukemia. *J. Nat. Prod.* **2021**, 84, 1–10.
12. Min-Wu Chao[#], Tony Eight Lin[#], Wei-Chun HuangFu, Chao-Di Chang, Huang-Ju Tu, **Liang-Chieh Chen**, Shih-Chung Yen, Tzu-Ying Sung, Wei-Jan Huang, Chia-Ron Yang, Shiow-Lin Pan, and Kai-Cheng Hsu. Identification of a dual TAOK1 and MAP4K5 inhibitor using a structure-based virtual screening approach. *J. Enzyme. Inhib. Med. Chem.* **2021**, 36, 98-108.
13. **Liang-Chieh Chen**, Han-Li Huang, Wei-Chun HuangFu, Shih-Chung Yen, Sin-Ting Ngo, Yi-Wen Wu, Tony Eight Lin, Tzu-Ying Sung, Ssu-Ting Lien, Hui-Ju Tseng, Shiow-Lin Pan, Wei-Jan Huang, and Kai-Cheng Hsu*. Biological evaluation of selected flavonoids as inhibitors of MNKs targeting acute myeloid leukemia. *J. Nat. Prod.* **2020**, 83, 2967-2975.
14. Yuh-Hwa Liu[#], Chia-Jung Lee[#], **Liang-Chieh Chen**, Tai-Lin Lee, Ying-Ying Hsieh, Chuan-Hsiao Han, Chang-Hang Yang, Wei-Jan Huang*, and Wen-Chi Hou*. Acetylcholinesterase inhibitory activity and neuroprotection *in vitro*, molecular docking, and improved learning and memory functions of demethylcurcumin in scopolamine-induced amnesia ICR mice. *Food Funct.* **2020**, 11, 2328.
15. Hui-Ju Tseng, Mei-Hsiang Lin, Young-Ji Shiao, Ying-Chen Yang, Jung-Chun Chu, Chun-Yung Chen, Yi-Ying Chen, Tony Eight Lin, Chih-Jou Su, Shiow-

- Lin Pan, **Liang-Chieh Chen**, Chen-Yu Wang, Kai-Cheng Hsu*, and Wei-Jan Huang*. Synthesis and biological evaluation of acridine-based histone deacetylase inhibitors as multitarget agents against Alzheimer's disease. *Eur. J. Med. Chem.* **2020**, 192, 112193.
16. **Liang-Cheng Chen**, Hui-Ju Tseng, Chang-Yi Liu, Yun-Yi Huang, Cheng-Chung Yen, Jing-Ru Weng, Yeh-Lin Lu, Wen-Chi Hou, Tony Eight Lin, I-Horng Pan, Kuo-Kuei Huang, Wei-Jan Huang*, and Kai-Cheng Hsu*. Design of diarylheptanoid derivatives as dual inhibitors against class IIa histone deacetylase and β -amyloid aggregation. *Front. Pharmacol.* **2018**, 9, 708.
 17. Lih-Chu Chiou*, Hsin-Jung Lee[#], Margot Ernst[#], Wei-Jan Huang[#], Jui-Feng Chou, Hon-Lie Chen, Akihiro Mouri, **Liang-Chieh Chen**, Marco Treven, Takayoshi Mamiya, Pi-Chuan Fan, Daniel E Knutson, Chris Witzigmann, James Cook, Werner Sieghart, and Toshitaka Nabeshima. Cerebellar α_6 -subunit-containing GABA_A receptors: a novel therapeutic target for disrupted prepulse inhibition in neuropsychiatric disorders. *Br. J. Pharmacol.* **2018**, 175, 2414.
 18. Shi-Wei Chao, **Liang-Chieh Chen**, Chia-Chun Yu, Chang-Yi Liu, Tony Eight Lin, Jih-Hwa Guh, Chen-Yu Wang, Chun-Yung Chen, Kai-Cheng Hsu*, and Wei-Jan Huang*. Discovery of aliphatic-chain hydroxamates containing indole derivatives with potent class I histone deacetylase inhibitory activities. *Eur. J. Med. Chem.* **2018**, 143, 792.
 19. **Liang-Chieh Chen**, Kai-Cheng Hsu, Lih-Chu Chiou, Hui-Ju Tseng, and Wei-Jan Huang*. Total synthesis and metabolic stability of hispidulin and its *d*-labelled derivative. *Molecules* **2017**, 22, 1897.
 20. Shi-Wei Chao, Ming-Yuan Su, Lih-Chu Chiou, **Liang-Chieh Chen**, Chung-I Chang*, and Wei-Jan Huang*. Total synthesis of hispidulin and the structural basis for its inhibition of proto-oncogene kinase Pim-1. *J. Nat. Prod.* **2015**, 78, 1969.
 21. Wei-Jan Huang, Yi-Ching Wang, Shi-Wei Chao, Chen-Yui Yang, **Liang-Chieh Chen**, Mei-Hsiang Lin, Wen-Chi Hou, Mei-Yu Chen, Tai-Lin Lee, Ping Yang, and Chung-I Chang*. Synthesis and biological evaluation of *ortho*-aryl *N*-hydroxycinnamides as potent histone deacetylase (HDAC) 8 isoform-selective inhibitors. *ChemMedChem* **2012**, 7, 1815.

- 專利/ Patent

Method for preparing hispidulin and its derivatives. 2020, US Patent NO: 10532991.