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研究室：中草藥研究中心 細胞功能評估平台

研究室成員：專任研究助理 2 名、研究生 2 名、大專生 3 名

研究專長：神經生理病理學、細胞訊號傳遞、中草藥效用細胞評估

研究方向：

一、本研究室主要領域為

- (1) 中樞神經系統炎症/病變發生之機轉
- (2) 糖尿病併發中樞神經系統病變之機轉
- (3) 神經發炎退化及老化機轉之探討
- (4) 中草藥活性成分對中樞神經系統保護作用之評估

學會或專業認證或得獎事蹟：

一、學會

- 1、台灣自由基學會理事
- 2、台灣藥理學會
- 3、中國生理學會
- 4、中華天然藥物學會

二、得獎事蹟

- 1、99 年度長庚技術學院優良教師
- 2、99 年度台灣藥理學會-杜聰明年輕學者獎
- 3、101 年度長庚科技大學優良教師研究類獎
- 4、教育部 102 年獎勵科技大學及技術學院教學卓越計畫補助經費支給特殊優秀人才彈性薪資

- 5、103 年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 6、104 學年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 7、107 年度長科技大學產學合作技術研發績優獎(優良教師研究獎)
- 8、108 學年度長科技大學產學合作技術研發績優銀獎
- 9、110 學年度長科技大學產學合作技術研發績優銀獎

#### 論文著作(近五年)

1. Tsong-Hai Lee, Jiun-Liang Chen, Chuan-Hsin Chang, Ming-Ming Tsai, Hui-Ching Tseng, Yu-Chia Chang, Velayuthaprabhu Shanmugam, Hsi-Lung Hsieh\*. (2024) A Brain-Protective Sterol from Soft Coral Inhibits Lipopolysaccharide-Induced Matrix Metalloproteinase-9-Mediated Astrocytic Migration. *Biomedicines* 12(1): 226.
2. Tsong-Hai Lee, Jiun-Liang Chen, Ming-Ming Tsai, Yi-Hsuan Wu, Hui-Ching Tseng, Li-Ching Cheng, Velayuthaprabhu Shanmugam, Hsi-Lung Hsieh\*. (2023) Protective Effects of Sophoraflavanone G by Inhibiting TNF- $\alpha$ -Induced MMP-9-Mediated Events in Brain Microvascular Endothelial Cells. *International Journal of Molecular Sciences* 25(1): 283.
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4. Hsi-Lung Hsieh, Shih-Hai Liu, Ya-Ling Chen, Chien-Yi Huang, Shu-Ju Wu. (2022) Astragaloside IV suppresses inflammatory response via suppression of NF- $\kappa$ B, and MAPK signalling in human bronchial epithelial cells. *Archives of Physiology and Biochemistry* 128(3):757-766.
5. Ming-Ming Tsai, Jiun-Liang Chen, Tsong-Hai Lee, Hsiuming Liu, Velayuthaprabhu Shanmugam, Hsi-Lung Hsieh\*. (2022) Brain Protective Effect of Resveratrol via Ameliorating Interleukin-1 $\beta$ -Induced MMP-9-Mediated Disruption of ZO-1 Arranged Integrity. *Biomedicines* 10(6):1270.
6. Yi-Hsuan Wu, Hsi-Lung Hsieh\*. (2022) Roles of Heme Oxygenase-1 in Neuroinflammation and Brain Disorders. *Antioxidants (Basel)* 11(5):923. (Review)
7. Hsi-Lung Hsieh, Ming-Chin Yu, Li-Ching Cheng, Mei-Yi Chu, Tzu-Hao Huang, Ta-Sen Yeh, Ming-Ming Tsai\*. (2022) Quercetin exerts anti-inflammatory effects via inhibiting tumor necrosis factor- $\alpha$ -induced matrix metalloproteinase-9 expression in normal human gastric epithelial cells. *World Journal of Gastroenterology* 28(11):1139-1158.
8. Hsi-Lung Hsieh, Ming-Chin Yu, Li-Ching Cheng, Ta-Sen Yeh, Ming-Ming Tsai\*. (2022) Molecular mechanism of therapeutic approaches for human gastric cancer stem cells. *World Journal of Stem Cells* 14(1):76-91. (Review)
9. Hsi-Lung Hsieh, Ching-Chung Liang, Cheng-You Lu, Jen-Tsung Yang, Chiu-Yen Chung, Yu-Shien Ko, Tsong-Hai Lee. (2021) Induced pluripotent stem cells can

- improve thrombolytic effect of low-dose rt-PA after acute carotid thrombosis in rat. *Stem Cell Research & Therapy* 12(1):549.
10. Te-Chien Ku, Pin-Han Wang, Jhen-Ling Huang, Hsing-Yu Chen, Ji-Tseng Fang, Hsi-Lung Hsieh\*, Jiun-Liang Chen. (2021) The survival outcome of nasopharyngeal cancer patients with traditional Chinese medicine external use: A hospital-based study. *Journal of Ethnopharmacology* 279:114380-114389.
  11. Tong-Hong Wang, Chin-Chuan Chen, Yann-Lii Leu, Yun-Shien Lee, Jang-Hau Lian, Hsi-Lung Hsieh\*, Chi-Yuan Chen. (2021) Palbociclib induces DNA damage and inhibits DNA repair to induce cellular senescence and apoptosis in oral squamous cell carcinoma. *Journal of the Formosan Medical Association* 120(9):1695-1705.
  12. Tsong-Hai Lee, Pei-Shan Liu, Su-Jane Wang, Ming-Ming Tsai, Velayuthaprabhu Shanmugam and Hsi-Lung Hsieh\*. (2021) Bradykinin, as a Reprogramming Factor, Induces Transdifferentiation of Brain Astrocytes into Neuron-Like Cells. *Biomedicines* 9(8): 923.
  13. Kuei-Hung Lai, Po-Jen Chen, Chih-Chuan Chen, Sien-Hung Yang, Mohamed El-Shazly, Yu-Chia Chang, Yi-Hsuan Wu, Yi-Hsiu Wu, Yi-Hsuan Wang, Hsi-Lung Hsieh\*, Tsong-Long Hwang. (2021) *Lophatherum gracile* Brongn. attenuates neutrophilic inflammation through inhibition of JNK and calcium. *Journal of Ethnopharmacology* 264:113224-113233.
  14. Tsong-Hai Lee, Pei-Shan Liu, Ming-Ming Tsai, Jiun-Liang Chen, Su-Jane Wang, Hsi-Lung Hsieh\*. (2020) The COX-2-derived PGE<sub>2</sub> autocrine contributes to bradykinin-induced matrix metalloproteinase-9 expression and astrocytic migration via STAT3 signaling. *Cell Communication and Signaling* 18(1):185-197.
  15. Tsong-Hai Lee, Jiun-Liang Chen, Pei-Shan Liu, Ming-Ming Tsai, Su-Jane Wang, Hsi-Lung Hsieh\*. (2020) Rottlerin, a natural polyphenol compound, inhibits up-regulation of matrix metalloproteinase-9 and brain astrocytic migration by reducing PKC- $\delta$ -dependent ROS signal. *Journal of Neuroinflammation* 17(1):177-189.
  16. Yu-Chia Chang, Kuei-Hung Lai, Sunil Kumar, Po-Jen Chen, Yi-Hsuan Wu, Ching-Long Lai, Hsi-Lung Hsieh\*, Ping-Jyun Sung, Tsong-Long Hwang. (2020) <sup>1</sup>H NMR-Based Isolation of Anti-Inflammatory 9,11-Secosteroids from the Octocoral *Sinularia leptoclados*. *Marine Drugs* 18(5): 271-280.
  17. Hsi-Lung Hsieh, Ming-Ming Tsai. (2019) Tumor progression-dependent angiogenesis in gastric cancer and its potential application. *World Journal of Gastrointestinal Oncology* 11(9): 686-704.
  18. Chian-Jiun Liou, Chuen-Mao Yang, Tsong-Hai Lee, Pei-Shan Liu, Hsi-Lung Hsieh\*. (2019) Neuroprotective Effects of Dehydroepiandrosterone Sulfate Through Inhibiting Expression of Matrix Metalloproteinase-9 from Bradykinin-Challenged Astroglia. *Molecular Neurobiology* 56(1):736-747.

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