【有意願指導國際研究生之教師資料表】

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Education

Ph.D. in Pharmacology: Institute of Chinese Medicine and Pharmaceutical Sciences, China Medical University, Taichung, Taiwan. ROC

Expertise

1. Anti-inflammatory pharmacology and Antioxidant pharmacology
2. Anti-cancer pharmacology and Toxicology
3. Pharmacology on Chinese Medicine Herb

Research Interests

Chronic inflammation induces autoimmune disorders, chronic diseases, and even cancer. Several active compounds isolated from the Traditional Chinese Medicine activating Nrf2 signaling and attenuating the TLR4/MAPK/IL-6/STAT related inflammatory signaling pathways. We want to explore novel antioxidants with multiple anti-inflammatory targets from TCM that can potentially be developed to treat autoimmune disorders, chronic inflammation-related diseases, and even cancer.

Selected Grants:

CMRC-CHM-4: HR Yen, ST Huang, CL Lee, LC Wen, C Jung, CH Tang, WT Hsieh, YH Kuo, SC kuo, LH Wang, YP Sher, YC Hseu, MC Kao. Chinese Medicine Research Center, China Medical University, Ministry of Education (MOE) in Taiwan. 2017.1.1 ~ 2021.12.31

Selected Publications

1.Hsieh WT, Hsu MH, Lin WJ, Xiao YC, Lyu PC, Liu YC, Lin WY, Kuo YH, Chung JG. Ergosta-7, 9 (11), 22-trien-3β-ol Interferes with LPS Docking to LBP, CD14, and TLR4/MD-2 Co-Receptors to Attenuate the NF-κB Inflammatory Pathway *In Vitro* and *Drosophila*. Int J Mol Sci. 2021 Jun 17;22(12):6511.

2.Huang MH, Lin YH, Lyu PC, Liu YC, Chang YS, Chung JG, Lin WY, Hsieh WT. Imperatorin Interferes with LPS Binding to the TLR4 Co-Receptor and Activates the Nrf2 Antioxidative Pathway in RAW264.7 Murine Macrophage Cells. Antioxidants (Basel). 2021 Feb 27;10(3):362.

3. YP Huang, DR Chen, WJ Lin, YH Lin, JY Chen, YH Kuo, JG Chung, TC Hsia, WT Hsieh. Ergosta-7,9(11),22-trien-3β-ol attenuates inflammatory responses via inhibiting MAPK/AP-1 induced IL-6/JAK/STAT pathway and activating Nrf2/HO-1 signaling in LPS-stimulated macrophage-like cells. Antioxidants (Basel). 2021 Sep 4;10(3): accepted.