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Education

PhD, National Chung Hsing University, Taiwan, 1997
DVM, National Chung Hsing University, Taiwan, 1987

Expertise

Chinese Medicinal Herb Studies and New Drug Development on metabolic regulation, oncogenesis, inflammation control by modern technology platform

Research Interests

My research topics are to identify novel pharmaceutical peptides or compounds from herbs or food. We combine bioinformatics, transcriptomics, proteomics, *in vivo* imaging, and animal disease models to discover potent pharmaceutical peptides or compounds for new drug development.

Selected Grants:

1. Innovative Application and Service of Traditional Chinese Medicine on Biotechnology Industry, RSC project, 2019~2022
2. Basic and Application Studies of IL-17/IL-17R-Targeting Chinese Medicinal Herbs and Their Active Constituents on Psoriasis, MOST project, 2019~2022
3. Angiotensin converting enzyme C-domain-targeting bioactive peptides from Chinese medicinal herbs: New design concept, development, and application, MOST project, 2021~2024

Selected Publications (2018~present)

1. Kao, W.Y., Hsiang, C.Y., Ho, S.C., Ho, T.Y.*, and Lee, K.T.* 2021. Novel serotonin-boosting effect of incense smoke from Kynam agarwood in mice: the involvement of multiple neuroactive pathways. *J. Ethnopharmacol.* 275: 114069.
2. Ho, T.Y., Lo, H.Y., Liu, I.C., Lin, K.A., Liao, Y.F., Lo, Y.C., and Hsiang, C.Y.* 2020. The protective effect of quercetin on retinal inflammation in mice: the involvement of tumor necrosis factor/nuclear factor-κB signaling pathways. *Food Funct.* 11(9): 8150-8160.
3. Wu, J.S., Li, J.M., Lo, H.Y., Hsiang, C.Y.*, and Ho, T.Y.* 2020. Anti-hypertensive and angiotensin-converting enzyme inhibitory effects of Radix Astragali and its bioactive peptide AM-1. *J. Ethnopharmacol.* 254(23): 112724.
4. Lo, H.Y., Li, C.C., Cheng, H.M., Liu, I.C., Ho, T.Y.*, and Hsiang, C.Y.* 2019. Ferulic acid altered IL-17A/IL-17RA interaction and protected against imiquimod-induced psoriasis-like skin injury in mice. *Food Chem. Toxicol.* 129: 365-375.
5. Li, J.M. Lee, Y.C., Li, C.C., Lo, H.Y., Chen, F.Y., Chen, Y.S., Hsiang, C.Y.*, and Ho, T.Y.* 2018. Vanillin-

ameliorated development of azoxymethane/dextran sodium sulfate-induced murine colorectal cancer: The involvement of proteasome/nuclear factor- κ B/mitogen-activated protein kinase pathways. *J. Agric. Food Chem.*, 66(22): 5563-5573.

Selected Patents

1. Blood Sugar-Modulating Polypeptides, Tin-Yun Ho and Chien-Yun Hsiang, TW I342781, US 8,476,229 B2, EP 2191837 B1, JP 4772884
2. Polypeptides, nucleic acid molecule encoding polypeptides, and uses of polypeptides, Tin-Yun Ho and Chien-Yun Hsiang, TW I588153, US 8,697,649 B2, US 9,029,326 B2, EP 2664622 B1, EP 2940035 A1, JP 5676538, JP 5947872, ZL 201210164364.4, HK1189607
3. Methods for regulating transcription of multiple genes and expression of multiple targets, Tin-Yun Ho and Chien-Yun Hsiang, TW I580690, TW I593703, JP 6116539
4. A polypeptide from *Mormodica charantia* for use for the regulation of genes related to inflammation, lipid and glucose metabolism, Tin-Yun Ho and Chien-Yun Hsiang, EP2990050 A1
5. Use of tectoridin and extract containing thereof for preparation of medication for treatment of lung inflammation, Chao-Chun Chem, Tin-Yun Ho and Chien-Yun Hsiang, TW I669122