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Education

PhD; Pharmacological Institute, National Taiwan University, Taiwan, June 2005
MS; Pharmacological Institute, National Taiwan University, Taiwan, June 2001
BS; School of Pharmacy; TaJen Pharmacy College, Taiwan, Jun 1996

Expertise

Pharmacology, Bone metabolism, Bone cancer, Tumor Metastasis to Bone, Cancer Pharmacology, Endocrinology Pharmacology, Drug development

Research Interests

1. Development of novel molecules and therapeutic drugs for bone cancer metastasis
2. Study the pathogenesis of arthritis and the development of therapeutic drugs from Chinese Herbal Medicine

Selected Grants:

- PI:
1. Targeting miRNAs to research and development traditional Chinese medicine products for arthritis. MOST 107-2320-B-039 -019 -MY3 (2018-08-01 ~ 2021-07-31).
 2. Studying for pathogenesis of degenerative osteoarthritis. CMU109-ASIA-01 (2020-08-01 ~ 2021-07-31)
 3. Using miRNA base to develop the anti-arthritis drugs from Chinese Medicine (II). CMU109-MF-44 (2020-08-01 ~ 2021-07-31)

Selected Publications

1. Liu JF, Chi MC, Lin CY, Lee CW, Chang TM, Han CK, Huang YL, Fong YC, Chen HT, **Tang CH***. PM2.5 facilitates IL-6 production in human osteoarthritis synovial fibroblasts via ASK1 activation. J Cell Physiol. 2020. **IF=5.546**
2. Chen WC, Lu YC, Kuo SJ, Lin CY, Tsai CH, Liu SC, Chen YL, Wang SW, **Tang CH***. Resistin enhances IL-1beta and TNF-alpha expression in human osteoarthritis synovial fibroblasts by inhibiting miR-149 expression via the MEK and ERK pathways. FASEB J. 2020. **IF=4.966**
3. Huang CC, Chiou CH, Liu SC, Hu SL, Su CM, Tsai CH, **Tang CH***. Melatonin attenuates TNF-alpha and IL-1beta expression in synovial fibroblasts and diminishes cartilage degradation: Implications for the treatment of rheumatoid arthritis. J Pineal Res. 2019; 66: e12560. **IF=14.528**
4. Chang AC, Chen PC, Lin YF, Su CM, Liu JF, Lin TH, Chuang SM, **Tang CH***. Osteoblast-secreted WISP-1 promotes adherence of prostate cancer cells to bone via the VCAM-1/integrin alpha4beta1 system. Cancer Lett. 2018; 426: 47-56. **IF=7.360**
5. Su CM, Hsu CJ, Tsai CH, Huang CY, Wang SW, **Tang CH***. Resistin Promotes Angiogenesis in Endothelial Progenitor Cells Through Inhibition of MicroRNA206: Potential Implications for Rheumatoid Arthritis. Stem Cells. 2015; 33: 2243-55. **IF=6.022**

Selected Patents

1. Disintegrin variants and pharmaceutical composition thereof; Taiwan Patent Number I392738; 2013.4.11 ~ 2027.12.24; Wen-Mei Fu, Tur-Fu Huang, Chih-Hsin Tang, Woei-Jer Chuang, Wen-ya Huang, Chiu-Yueh Chen
2. Anti-angiogenesis compound and preparation thereof; Taiwan Patent Number I619706; 2018.4.1 ~ 2037.3.14; Chih-Hsin Tang, Tzong-Huei Lee, Shih-Wei Wang
3. Pharmaceutical composition for treating angiogenesis related disorder ;Taiwan Patent Number I639431; 2018.11.1 ~ 2037.6.12; Hsun-Shuo Chang, Ih-Sheng Hen, Chien-Jou Peng, Shih-Wei Wang Chih-Hsin Tang