

花蓮慈濟醫院研究部

心臟醫學發展中心暨心血管研究中心 (712室)

主持人

臨床應用組：王志鴻 醫師、楊秋芬 醫師、蔡文欽 醫師

基礎醫學研究組：曾子玲 助理研究員

研究成員

博士後研究員：陳伯毅

計畫研究助理：陳蓉、蘇鈺涵

研究簡介

- 研究方向**：血管生物學、血管鈣化、電生理、心血管藥理學
- 研究主題**：代謝性與心血管系統疾病病理機制探討
功能性基因活化轉錄因子3生理角色與應用
血管功能及活性檢測應用於轉譯醫學策略測試平台
- 研究平台與技術**：離體血管張力系統、電生理紀錄系統、分子生物及細胞培養技術

計畫與經費來源 (曾子玲 助理研究員)

- 科技部計畫 MOST 111-2320-B-303-001 探討活化轉錄因子3保護高脂肪飲食誘發心血管變異之機制。
- 國科會計畫 NSTC 112-2320-B-303-001 探討 ATF3與IRF4-PGC-1 α 複合體控制棕色/米色脂肪細胞誘導血管舒張因子合成和分泌並參與血管張力調控分子機轉與脂質轉換的保護應用。

研究成果 學術期刊論文發表著作 (2016-current)

- Tseng TL**, Chen MF, Liu CH, Pang CY, Hsu YH, *Lee TJ. (2016) Induction of endothelium-dependent constriction of mesenteric arteries in endotoxemic hypotensive shock. British Journal of Pharmacology (SCI, IF: 6.3)
- Tseng TL**, Rajesh G Mishra, Chen MF, PY Chen, *Lee TJ. (2016) Bacterial toxin-induced abbreviated urea cycle in porcine cerebral vascular smooth muscle. Vascular pharmacology (SCI, IF: 3.8)
- Tseng TL**, Chen MF, Hsu YH, *Lee TJ. (2020) OroxylinA reverses lipopolysaccharide-induced adhesion molecule expression and endothelial barrier disruption in the rat aorta. Toxicology and Applied Pharmacology (SCI, IF: 3.7)
- Li HF, Wu YL, **Tseng TL**, Chao SW, Lin H, and Chen HH. (2020) Inhibition of miR-155 potentially protects Lipopolysaccharide-induced acute lung injury through the IRF2BP2-NFAT1 pathway. American Journal of Physiology-Cell Physiology (SCI, IF: 3.52)
- Chen PY**, Lin HW. (2020) Stearic Acid Methyl Ester Reduced Global Ischemia-Mediated Neuronal Damage. Prostaglandins, Leukotrienes & Essential Fatty Acids (SCI, IF: 3.88)
- Tseng TL**, WY Ho, PJ Huang, JZ Liao, KH Lee. (2022) Oroxylin-A and its phosphonate derivative potentiate eNOS/NO-mediated relaxation and attenuate vasoconstrictor-induced contraction in the mouse aorta. Journal of Pharmacological Sciences (SCI, IF: 3.37)
- Li HF, HL Liu, PY Chen, Lin H, and ***Tseng TL**. (2022) Role of PVAT in obesity-related cardiovascular disease through the buffering activity of ATF3. iScience (SCI, IF: 6.17)
- Chen HH, Li HF, ***Tseng TL**, and Lin H. (2023) Perivascular adipose tissue- and adipocyte-derived extracellular vesicles maintain vascular homeostasis. Heliyon, e22607, November 20. (SCI, IF: 4.0)