李欣志 Xinzhi Li

職稱/Position: 助理教授/Assistant Professor

課程主任/Program Director

學院/Faculty: 藥學院/School of Pharmacy

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教學科目：藥理學研究方法；科技文獻檢索與寫作；臨床藥理學；生物化學與分子生物學等 。

Teaching activity: Methodology in Pharmacology; Scientific Writing; Clinical Pharmacology; Biochemistry and Molecular Biology

研究方向：不飽和脂肪酸受體的信號轉導；肥胖過程中的慢性炎症反應；血管外周脂肪細胞的通信聯繫在血管性疾病的作用；抗炎藥物的發現與機制。

Research interest: unsaturated fatty acid signaling pathway; obesity-associated chronic inflammation; communication between perivascular adipocytes and other cells in the cardiovascular diseases; drug development for anti-inflammation.

研究课题/Research project:

1. 自由脂肪酸受體 4 抗血管外周組織炎症反應研究/ Anti-inflammatory effects of free fatty acid receptor 4 during inflammation in the perivascular adipose tissue, FDCT 0123/2020/A, 2021.06-2023.06

2. 血管外周脂肪組織異質性、褐色化以及益母草堿降脂作用新機制研究/ Heterogeneity and browning of the perivascular adipose tissue and new mechanisms for the lipid-lowering effects of leonurine, FDCT 0053/2021/A1, 2021.09-2024.09

學歷/Education

2008 中國中醫科學院，博士學位/PhD, China Academy of Chinese Medical Sciences (CACMS), Beijing, China

2000 北京中醫藥大學醫學碩士和學士學位（7 年制專業）/ Bachelor & Master in Medicine, Beijing University of Chinese Medicine (7-year program), Beijing, China

工作經驗/Work experience

2020 - 澳門科技大學 助理教授/Assistant Professor, Macau University of Science and Technology

2010 - 2020 加拿大女皇大學 博士後和副研究員/ Postdoctoral Fellow/Research Associate, Queen's University, Kingston, ON, Canada

2000 - 2010 中國中醫科學院 助理研究員、副研究員/ Research Assistant/Associate Professor in Pharmacology, Xiyuan Hospital, CACMS, Beijing, China

代表性文章/Publications

Li X, Ma Z and Zhu YZ (2021) Regional Heterogeneity of Perivascular Adipose Tissue: Morphology, Origin, and Secretome. Front. Pharmacol. 12:697720. doi: 10.3389/fphar.2021.697720

Lin Z, Ding Q, **Li X**, Feng Y, He H, Huang C, Zhu Y. Targeting Epigenetic Mechanisms in Vascular Aging. *Frontiers in Cardiovascular Medicine* 2022;8:806988

Li X, Ballantyne LL, Yu Y, Funk CD. Perivascular adipose tissue-derived extracellular vesicle miR-221-3p mediates vascular remodeling. *FASEB J.* 2019; 33(11): 12704–12722. doi: 10.1096/fj.201901548R

Li X, Ballantyne LL, Crawford MC, FitzGerald GA, Funk CD. Isoform-specific compensation of cyclooxygenase (*Ptgs*) genes during implantation and late-stage pregnancy. *Sci Rep*. 2018 Aug 14, 8(1):12097. doi: 10.1038/s41598-018-30636-x

Li X, Mazaleuskaya LL, Ballantyne LL, Meng H, FitzGerald GA, Funk CD. Differential compensation of two cyclooxygenases in renal homeostasis is independent of prostaglandin-synthetic capacity under basal conditions. *FASEB J.* 2018; 32(10): 5326-5337.

Li X, Mazaleuskaya LL, Yuan C, Ballantyne LL, Meng H, Smith WL, FitzGerald GA, Funk CD. Flipping the cyclooxygenase (*Ptgs*) genes reveals isoform-specific compensatory functions. *J Lipid Res*. 2018; 59(1):89-101.

Li X, Mazaleuskaya LL, Ballantyne LL, Meng H, FitzGerald GA, Funk CD. Genomic and lipidomic analyses differentiate the compensatory roles of two COX isoforms during systemic inflammation in mice. *J Lipid Res*. 2018; 59(1):102-112.

Liu G, Gong Y, Zhang R, Piao L, **Li X**, Liu Q, Yan S, Shen Y, Guo S, Zhu M, Yin H, Funk CD, Zhang J, Yu Y. Resolvin E1 attenuates injury-induced vascular neointimal formation by inhibition of inflammatory responses and vascular smooth muscle cell migration. *FASEB J.* 2018; 32(10):5413-5425.

Li X, Ballantyne LL, Che X, Mewburn JD, Kang JX, Barkley RM, Murphy RC, Yu Y, Funk CD. Endogenously generated omega-3 Fatty acids attenuate vascular inflammation and neointimal hyperplasia by interaction with free Fatty Acid receptor 4 in mice. *J Am Heart Assoc*. 2015; 4(4). pii: e001856. doi: 10.1161/JAHA.115.001856.

Gong Y, Lin M, Piao L, **Li X**, Yang F, Zhang J, Xiao B, Zhang Q, Song WL, Yin H, Zhu L, Funk CD, Yu Y. Aspirin enhances protective effect of fish oil against thrombosis and injury-induced vascular remodelling. *Br J Pharmacol*. 2015; 172(23):5647-60.

Li X, Yu Y, Funk CD. Cyclooxygenase-2 induction in macrophages is modulated by docosahexaenoic acid *via* interactions with free fatty acid receptor 4 (FFA4). *FASEB J.* 2013; 27(12):4987-97.