

Xu You-Hua



Position : Associate Professor / Program
Coordinator

Faculty : Faculty of Chinese Medicine;
State Key Laboratory of Quality
Research in Chinese Medicine

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Teaching and Research Areas :

Teaching Area

Pathology; Pharmacology; Surgery of Western Medicine;
Advances in Integrative Chinese and Western Medicine
Research; Food Toxicology

Research Area

Herbal Pharmacology; Molecular Pharmacology; Diabetic
Research

Academic Qualifications

2009 - 2012 Ph.D / Chinese Medicines / Macau University of Science and Technology

2006 - 2009 Master of Medicine / Pharmacology (State Key Discipline) / Nanjing Medical
University

2001 - 2006 Bachelor of Medicine / Clinical Medicine / Wuhan University of Science and
Technology

2002 - 2006 Bachelor of Art / English / Wuhan University of Science and Technology

Teaching Experiences

2020.9 - Present Program Coordinator / Faculty of Chinese Medicine / Macau University of Science and
Technology

2019.7 - Present Associate Professor / Faculty of Chinese Medicine / Macau University of Science and
Technology

2012.9 – 2019.6 Assistant Professor / Faculty of Chinese Medicine / Macau University of Science and
Technology

2009.4 – 2009.7 Research Fellow / Department of research and development / WuXi AppTec Co. Ltd.

Representative Publications

Selected Journal Articles (*Corresponding author):

- 1). Weiming Wang, Tingting Zhao, Kang Geng, Gang Yuan, Yue Chen*, **Youhua Xu***. Smoking and pathophysiology of Peripheral artery disease. *Frontiers in Cardiovascular Medicine-Atherosclerosis and Vascular Medicine*. 2021. doi: 10.3389/fcvm.2021.704106.
- 2). Kang Geng, Xiumei Ma, Zongzhe Jiang, Wei Huang, Chenlin Gao, Yueli Pu, Lifang Luo, **Youhua Xu***, Yong Xu*. Innate Immunity in Diabetic Wound Healing: Focus on the Mastermind Hidden in Chronic Inflammation. *Frontiers in Pharmacology*. 2021;21 April <https://doi.org/10.3389/fphar.2021.653940>.
- 3). Meng Xu, Tao Fen, Bowen Liu, Fen Qiu, **Youhua Xu**, Yonghua Zhao*, Ying Zheng*. Engineered exosomes: desirable target-tracking characteristics for cerebrovascular and neurodegenerative disease therapies. *Theranostics*. 2021; 11(18): 8926-8944. doi: 10.7150/thno.62330.
- 4). Jun Su, Chongting Gao, Ling Xie, Ying Fan, Yilan Shen, Qunwei Huang, Niansong Wang, **Youhua Xu***, Nizhi Yang*, Dingkun Gui*. Astragaloside II Ameliorated Podocyte Injury and Mitochondrial Dysfunction in Streptozotocin-Induced Diabetic Rats. *Frontiers in Pharmacology*. 2021 Mar 16;12:638422. doi: 10.3389/fphar.2021.638422. eCollection 2021.
- 5). Tingting Zhao, Junling Gu, Huixia Zhang, Zhe Wang, Wenqian Zhang, Yong-Hua Zhao, Ying Zheng, Wei Zhang, Hua Zhou, Guilin Zhang, Qingmin Sun, Enchao Zhou*, Zhilong Liu*, **Youhua Xu***. Sodium Butyrate Modulated Mitochondria Function in High-Insulin induced HepG2 Cells Dysfunction. *Oxidative Medicine and Cellular Longevity*. 2020;2020:1904609. (<https://doi.org/10.1155/2020/1904609>)
- 6). Wei Huang*, Chenlin Gao, Luping Zhou, Junling Gu, Huiwen Xu, Qin Wan, Yang Long, Li Chai, **Youhua Xu***, Yong Xu*. Short-chain Fatty Acids Ameliorate Diabetic Nephropathy via GPR43-mediated Inhibition of oxidative stress and NF- κ B Signaling. *Oxidative Medicine and Cellular Longevity*. 2020 Aug 1;2020:4074832. doi: 10.1155/2020/4074832.
- 7). Wenqian Zhang, Tingting Zhao, Dingkun Gui, Chenlin Gao, Junling Gu, Wenjun Gan, Wei Huang, Yong Xu, Hua Zhou, Weini Chen, Zhilong Liu*, **Youhua Xu***. Sodium Butyrate Improves Liver Glycogen Metabolism in Type 2 Diabetes Mellitus. *Journal of Agricultural and Food Chemistry*. 2019 Jul 10;67(27):7694-7705.
- 8). **Xu YH***, Gao CL, Guo HL, Zhang WQ, Huang W, Tang SS, Gan WJ, Xu Y, Zhou H, Zhu Q. Sodium Butyrate Supplementation Ameliorates Diabetic Inflammation in db/db Mice. *Journal of Endocrinology*. 2018;238(3):231-244.
- 9). Tang D, Shen YB, Wang ZH, He B, **Xu YH**, Nie H*, Zhu Q*. Rapid Analysis and Guided Isolation of Astragalus Isoflavonoids by UHPLC-DAD-MSn and Their Cellular Antioxidant Defense on High Glucose Induced Mesangial Cells Dysfunction. *Journal of Agricultural and Food Chemistry*. 2018;66(5):1105-1113.
- 10). Huang W, Zhou LP, Guo HL, **Xu YH***, Xu Y*. The Role of Short-Chain Fatty Acids in Kidney Injury Induced by Gut-derived Inflammatory Response. *Metabolism*. 2017;68:20-30.
- 11). **Xu YH***, Xiong JF, Zhao YH, He B, Zheng ZG, Chu GJ, Zhu Q*. Calycosin re-balances advanced glycation end products-induced glucose uptake dysfunction of hepatocyte in vitro. *American Journal of Chinese Medicine*. 2015;43(6):1191-1210.
- 12). Tang D*, Zhu JX, Wu AG, **Xu YH**, Duan TT, Zheng ZG, Wang RS, Li D, Zhu Q*.

Pre-column incubation followed by fast liquid chromatography analysis for rapid screening of natural methylglyoxal scavengers directly from herbal medicines: case study of *Polygonum cuspidatum*. *Journal of Chromatography A*. 2013;1286:102-110.

- 13). **Xu YH**, Feng L, Wang SS, Zhu Q*, Zheng ZG, Xiang P, He B, Tang D. Calycosin protects HUVECs from advanced glycation end products-induced macrophage infiltration. *Journal of Ethnopharmacology*. 2011;137(1):359-70.
- 14). Zhang RJ#, **Xu YH**#, Fu H, Wang JJ, Jin L, Li SN*. Urocortin induced expression of COX-2 and ICAM-1 via corticotrophin-releasing factor type 2 receptor in rat aortic endothelial cells. *British Journal of Pharmacology*. 2009;158(3):819-829. (#co-first author)
- 15). **Xu YH**#, Zhang RJ#, Chen J, Zhang QC, Wang JJ, Hu J, Guan XW, Jin L, Fu H, Gui B, Guo YY, Li SN*. Urocortin promotes the development of vasculitis in a rat model of thromboangiitis obliterans via corticotrophin-releasing factor type 1 receptors. *British Journal of Pharmacology*. 2009;157(8):1368-1379.(#co-first author)

Patent

- 1) **XU You Hua**, GUO Heng Li, ZHOU Hua, ZHU Quan. Method of Treating Endotoxemia. Australian Innovation Patent. 2018102089. (2018/12/18~2026/12/18)

Research Grants/Projects

2020 – 2023	Astragali Radix and Panax notoginseng combination for treatment of diabetic nephropathy: clinical randomized controlled trail and mechanism study / MOST-FDCT / PI
2020 – 2022	Effects and Mechanism of YI-SHEN-HUA-SHI Granule on Preventing Proteiunria in Diabetic Kidney Disease / FDCT-GDST / PI
2019 – 2021	Preventive effects of flavonoids from Astragali Radix against metabolic memory in diabetes based on co-metabolism between Chinese Medicines and gut microbiota / FDCT / PI
2019 – 2022	Overexpressing Caveolin-1 and active compounds of Chinese medicines loaded exosomes derived from mesenchymal stem cells modulate blood-brain barrier permeability after ischemic stroke / FDCT / PI
2015 – 2018	Studies of the Bioactive Components on Diabetic Metabolic Endotoxemia from Cortex Mori Based on Butyric Acid Metabolism in the Gut / FDCT / PI
2012 – 2015	Bioactive Components and Quality Assessment of Traditional Chinese Medicine Huangqisan for Preventing Diabetic Nephropathy by Cell Membrane Chromatography / FDCT / member

Academic and Professional Membership

Cross-Strait Scientific Collaboration Center for Chinese Council Member, Deputy Director

Medicine	of the Office
The First Board of Specialty Committee of Immunology of Traditional Chinese Medicine of World Federation of Chinese Medicine Societies	Executive Council Member
Macau International Collaboration Alliance for Rheumatology Research	Council Member
Macao Association for the Promotion of Higher Education	Council Member

Professional Qualifications and Awards

2020.09	First Prize in Teaching Achievement Award 2019/2020 of Macau University of Science and Technology (the third awardee). September 2020, Macau, China.
2019.09	First Prize in Serve of the 2018 Zhongzhu Awards for Life Sciences, Macau University of Science and Technology. September 2019, Macau, China.
2018.09	First Prize in Teaching of the 2017 Zhongzhu Awards for Life Sciences, Macau University of Science and Technology. September 2018, Macau, China.
2018.05	Excellent instructor of “Hui-Yi-Gu Cup” National Clinical Ability Contest for TCM undergraduate students in 2018. May 2018, Tianjin, China.
2017.12	Third Prize of Science and Technology Progress Award Category of the 2017 Jiangsu Pharmaceutical Science and Technology Award (the seventh awardee) for <i>Technology system for finding superior components from traditional Chinese medicine on preventing and treating Diabetes mellitus and its complications and its application of conversion</i> , December 2017, Jiangsu, China.
2017.09	First Prize in Service of the 2016 Zhongzhu Awards for Life Sciences, Macau University of Science and Technology. September 2017, Macau, China.
2016.10	Second Prize of Science and Technology Invention Award Category of the 2016 Macau Science and Technology Award (the second awardee) for <i>Application of Alive Cell Immobilized Chromatography on the Innovative Study of Chinese Medicines</i> , October 2016, Macau, China.
2012.11	Third Prize of 2011 Science and Technology Award of Jiangsu Province (the seventh awardee) for <i>Study on the Mechanism of Corticotropin-releasing Factor Family Peptides in Cardiovascular and Cerebrovascular Diseases</i> , November 2012, Jiangsu, China.