

Resume of Yu-Xin CHEN

Basic Information



School: School of Life and Health Sciences
Gender: Female
Date of Birth: 198611
Title: Lecturer
Education: Ph.D of Biochemistry and Molecular Biology
Interest of research: Chemical composition research and Pharmacology research about Chinese medicine; Digestive tract absorption, transport and metabolism of Chinese medicine.

Academic Background

2005/09-2009/06, Huazhong Agriculture University, Bachelor's degree in Plant Science and Technology;

2009/09-2015/06, Wuhan University, Ph.D of Biochemistry and Molecular Biology.

Oversea Experience

2016/03-2017/08, Lab Assistant, Department of Molecular, Cell and Systems Biology, University of California, Riverside, CA, USA;

2017/08-2019/05, Assistant Specialist, Department of Biomedical Science, School of Medicine, University of California, Riverside, CA, USA.

Representative Projects

1. National Natural Science Foundation of China Youth Project "Study on the anti-ulcerative colitis activity and mechanism of characteristic chemical components of *Terminalia chebula* based on Ussing Chamber system", 2022-2024, **Project leader**.

2. Hubei Provincial Natural Science Foundation Youth Project "Evaluation of the toxicity on colon adenocarcinoma cells and intestinal metabolism of the main antifungal components of dill in Uygur medicine using Ussing Chamber system ", 2020-2022, **Project leader**.

3. Open Project of Xinjiang Production and Construction Corps Tarim Basin Biological Resources Protection and Utilization Key Laboratory "Evaluation of the effect of intestinal microorganisms on the transport of the main antifungal components of dill across the intestinal membrane using the Ussing Chamber system", 2020-2022, **Project leader**.

4. International Cooperation Research Project for Young Scholars of Hubei University of Technology's Cell Regulation and Molecular Drugs "111" Talent Introduction Base. "Study on the organic amine metabolites from amino acids transport through a rat

colon", 2020-2022, **Project leader**.

5. Hubei University of Technology Doctoral Start-up Fund " Study on the anti-ulcerative colitis activity and colonic transport metabolism of the main component chebulic acid of *Terminalia chebula*", 2021-2023, **Project leader**.

Representative Articles

1. Wan-Rong Dong, Yao-Yao Li, Tian-Tian Liu, Gao Zhou, **Yu-Xin Chen***. Ethyl acetate extract of *Terminalia chebula* alleviates DSS-induced ulcerative colitis in C57BL/6 mice. *Frontiers in Pharmacology* 2023, 14, 1229772.
2. Yao-Yao Li, Yu Cui, Wan-Rong Dong, Tian-Tian Liu, Gao Zhou, **Yu-Xin Chen***. *Terminalia bellirica* fruit extract alleviates DSS-induced ulcerative colitis by regulating gut microbiota, inflammatory mediators, and cytokines. *Molecules* 2023, 28(15), 5783.
3. **Yu-Xin Chen**, Qiang Cai*. Plant exosome-like nanovesicles and their role in the innovative delivery of RNA therapeutics. *Biomedicines* 2023, 11(7), 1806.
4. Tian-Tian Liu, Lin-Jing Gou, Hong Zeng, Gao Zhou, Wan-Rong Dong, Yu Cui, Qiang Cai*, **Yu-Xin Chen***. Inhibitory effect and mechanism of dill seed essential oil on *Neofusicoccum parvum* in Chinese chestnut. *Separations* 2022, 9(10), 296.
5. **Yu-Xin Chen**[#], Wei Li[#], Hong Zeng, Gao Zhou, Qiang Cai*. Transcriptome analysis reveals the mechanism of dill seed essential oil against *Sclerotinia sclerotiorum*. *Natural Product Communications* 2022, 17(8): 1-11.
6. **Yuxin Chen**, Meredith M. Dinges, Andrew Green, Scott E. Cramer, Cynthia K. Larive, Christian Lytle*. Absorptive transport of amino acids by the rat colon. *American Journal of Physiology-Gastrointestinal and Liver Physiology* 2020, 318: G189-G202.
7. **Yuxin Chen**[#], Gao Zhou[#], Bingxin Ma, Jing Tong, Youwei Wang*. Active Constituent in the Ethyl Acetate Extract Fraction of *Terminalia Bellirica* Fruit Exhibits Antioxidation, Antifibrosis, and Pro-apoptosis Capabilities in Vitro. *Oxidative Medicine and Cellular Longevity* 2019, Article ID 5176090.
8. **Yuxin Chen**, Neema Adhami, Manuela Martins-Green*. Biological markers of harm can be detected in mice exposed for two months to low doses of third hand smoke under conditions that mimic human exposure. *Food and Chemical Toxicology* 2018, 122: 95-103.
9. **Yuxin Chen**, Ziping Zhou, Qigui Mo, Gao Zhou, Youwei Wang*. Gallic Acid Attenuates Dimethylnitrosamine-Induced Liver Fibrosis by Alteration of Smad Phospho-Isoform Signaling in Rats. *BioMed Research International* 2018, Article ID 1682743.

10. **Yuxin Chen**, Qigui Mo, Baibo Xie, Bingxin Ma, Xinyu Zang, Gao Zhou, Linyou Cheng, James Hua Zhou*, Youwei Wang*. Hepatoprotective activity of Yigan mingmu oral liquid against isoniazid / rifampicin- induced liver injuries in rats. *Chinese Medicine* 2018, 9: 165-178.
11. Neema Adhami#, **Yuxin Chen**#, Manuela Martins-Green*. Biomarkers of disease found in mice after exposure to third hand smoke equivalent to those found in homes of smokers. *Clinical Science* 2017, 131: 2409-2426.
12. **Yuxin Chen**, Jing Tong, Lanlan Ge, Bingxin Ma, Jingsheng He, Youwei Wang*. Ethyl acetate fraction of *Terminalia bellirica* fruit inhibits rat hepatic stellate cell proliferation and induces apoptosis. *Industrial Crops and Products* 2015, 76: 364-373.
13. **Yuxin Chen**#, Hong Zeng#, Jun Tian, Xiaoquan Ban, Bingxin Ma, Youwei Wang*. Dill (*Anethum graveolens* L.) seed essential oil induces *Candida albicans* apoptosis in a metacaspase-dependent manner. *Fungal Biology* 2014, 118: 394-401.
14. **Yuxin Chen**#, Hong Zeng#, Jun Tian, Xiaoquan Ban, Bingxin Ma, Youwei Wang*. Antifungal mechanism of essential oil from *Anethum graveolens* seeds against *Candida albicans*. *Journal of Medical Microbiology* 2013, 62: 1175-1183.