



Na Zhou

Position : Assistant Professor

Faculty/Department :

Faculty of Medicine - School of Pharmacy
State Key Laboratory of Quality Research in
Chinese Medicine

Email : nzhou@must.edu.mo

Tel: +853-63311228

Office: E213a

Address: Macau University of Science and Technology, Avenida Wai Long, Taipa,
Macau

Teaching Areas: basic chemistry, basic chemistry of pharmacy, clinical laboratory
diagnostics, clinical evidence-based pharmacy

Research Areas:

metabolomics and molecular genetics of schizophrenia, tumor pathogenesis,
molecular immunology

Education:

Ph.D. in Biochemistry and Molecular Biology, Jilin University, 2014

M.Sc. in Cell Biology, Northeast Normal University, 2008

BS in Pharmacy, Jilin University, 2006

Working Experience:

2022.07 ~ present: Assistant Professor, School of Pharmacy, Macau University of
Science and Technology, Macau, China

2020.09 ~ 2022.06: Lecturer, School of Pharmacy, Macau University of Science and
Technology

2010.11 ~ 2020.09: Clinical Pharmacist, Stomatological Hospital of Jilin University

Scientific Research:

1. Joint scientific research funding from the Macau Science and Technology
Development Fund (FDCT) and the Ministry of Science and Technology of the

People's Republic of China (MOST): Exploitation, Evaluation and Selection and Application of New Stress Resistant Varieties of Macrobrachium in The Coastal Waters of The Pearl River Estuary in China(2023-2026). 2,049,000.00MOP, PI.

2. Macau Science and Technology Development Fund (FDCT): The effect of S-propargyl-cysteine (SPRC) in the treatment of schizophrenia and its molecular mechanism(2023-2026). 81,000.00MOP, PI.

3. The research fund of Macau University of Science and Technology (MUST): Establishment of rat model of schizophrenia(2021-2022). 100,000.00 MOP, PI.

Articles published in the past 5 years:

1. Bian X, **Zhou N[#]**, Zhao Y, et al. Identification of proline, 1-pyrroline-5-carboxylate and glutamic acid as biomarkers of depression reflecting brain metabolism using carboxylomics, a new metabolomics method. *Psychiatry Clin Neurosci.* 2023, 77(4): 196-204.

2. Shengming Sun, Chao Bian, **Na Zhou**, et al. Dietary Astragalus polysaccharides improve the growth and innate immune response of giant freshwater prawn *Macrobrachium rosenbergii*: Insights from the brain-gut axis. *International Journal of Biological Macromolecules.* 2023, 243(15):125158.

3. Qianqian Zhao, Xichao Sun, Cheng Zheng, Cheng Xue, Yiting Jin, **Na Zhou**, Shengming Sun. The evolutionarily conserved hif-1/bnip3 pathway promotes mitophagy and mitochondrial fission in crustacean testes during hypoxia. *Am J Physiol Regul Integr Comp Physiol.* 2023, 324: R128-R142.

4. Xichao Sun, Cheng Xue, Yiting Jin, Chao Bian, **Na Zhou**, Shengming Sun. Glucose transporter GLUT1 expression is important for oriental river prawn (*Macrobrachium nipponense*) hemocyte adaptation to hypoxic conditions. *J. Biol. Chem.* 2023, 299(1):102748.

5. Nitric oxide and thyroid carcinoma: A review. Huang Y, Suguro R, Hu W, Zheng J, Liu Y, Guan M, **Zhou N^{*}**, Zhang X^{*}. *Front Endocrinol (Lausanne).* 2023, 9(13): 1050656.

6. Yu Huang, Xin Zhang, **Na Zhou^{*}**. The Interrelation between Interleukin-2 and

Schizophrenia. *Brain Sci.* 2022,12(9): 1154.

7. Zhang X, Ritonja JA, **Zhou N**, et al. Omega-3 Polyunsaturated Fatty Acids Intake and Blood Pressure: A Dose-Response Meta-Analysis of Randomized Controlled Trials. *J Am Heart Assoc.* 2022,11(11): e025071.

8. Fu Y, Ren X, Bai W, Yu Q, Sun Y, Yu Y, **Zhou N***. Association between C-Maf-inducing protein gene rs2287112 polymorphism and schizophrenia. *PeerJ.* 2021, 20(9): e11907.

9. **Na Zhou**, Xin Zhang, Jia-Qing Yan, et al. Prevalence of Oral Mucosal Diseases in Older Adults in Mainland China: A Meta-Analysis of Observational Studies. *IJERPH.* 2020, 17,1887.

10. Ziwei Wang, **Na Zhou**, Jianqi Zhao, et al. Sodium azulene sulfonate reverses multidrug resistance in K562/A02 cells. *Cellular and Molecular Biology.* 2019,65(7): 105-110.

11. Yang M, **Zhou N**, Zhang H, et al. Kininogen-1 as a protein biomarker for schizophrenia through mass spectrometry and genetic association analyses. *PeerJ* 2019,7: e7327.

12. Yingli Fu, **Na Zhou**, Yaqin Yu, et al. Profiling of schizophrenia-associated serum peptides by MALDI-TOF-MS. *J Neural Transm.* 2019.

13. Shengbo Fang, Lingli Qi, **Na Zhou**, et al. Case report on alimentary tract hemorrhage and liver injury after therapy with oseltamivir: A case report. *Medicine.* 2018, 97: 38 (e12497).

14. Shangchao Zhang, **Na Zhou**, Rui Liu, et al. Association Between Polymorphisms of the Complement 3 Gene and Schizophrenia in a Han Chinese Population. *Cell Physiol Biochem.* 2018, 46: 2480-2486.

15. Wang Ziwei, **Zhou Na**, Fang Shengbo, et al. Effect of ursolic acid on obesity-induced insulin resistance in rat liver. *Tropical Journal of Pharmaceutical Research.* 2018,17(5): 1596-1599.