



Ding Qian

Position: Assistant Professor

Faculty : School of Pharmacy

Email: qding@must.edu.mo

Tel: (853) 68862579

Office: E213b

E213b Building E,

Address: Avenida Wai Long,

Taipa, Macau

Teaching activity: Pathophysiology, Pharmaceutical English, Pharmacology.

Research interests: Epigenetic Pharmacology, First-in-class Drug Discovery and Industrialization

Work experience:

2024.06- : Assistant Professor, Macau University of Science and Technology

2023.06-2024.05: Postdoctoral fellow, Macau University of Science and Technology

2014.11-2024.05: Teaching assistant, Lecturer, Guizhou University of Traditional Chinese Medicine

2017.07-2018.01: Visiting Scholar, University of Nebraska Medical Center (UNMC)

2012.08-2012.10: Visiting Scholar, Hokkaido University, Japan

Education:

2019.09-2022.08: PhD, Macau University of Science and Technology, Macau, China

2011.09-2014.02: Master's degree, University of Macau

2007.09 -2011.07: Bachelor's degree, Hebei Medical University

Academic / Social work:

Associate Director of Joint Laboratory of TCM Innovation (Transformation) of Guizhou and Macau

Member of the Epigenetic Pharmacology Professional Committee of the Chinese Pharmacological Society

Secretary General of the New Drug Industrialization Alliance of Guangdong-Hong Kong-Macao Greater Bay Area

Award:

Macau Science and Technology Award (Technical Invention Award), the second award (2024)

Macau Postgraduate Science and Technology Research and Development Award (2024)

Champion of the 11th Asian Association of Schools of Pharmacy (AASP) Conference Young Scholars Competition (2023)

Academic achievements:

1. Tang, Z., Sun, Y., Yi, Q., **Ding, Q.**, Ding, Y., & Huang, J. (2025). CeO₂ nanozyme-embedded thermal-deformative polymer for site-specific chemotherapy via HIF-1 α -P-gp/lipolysis axis reversal. *Asian journal of pharmaceutical sciences*, 20(3), 101023. <https://doi.org/10.1016/j.ajps.2025.101023> (Co-Corresponding author, IF:11.9)
2. Zhang, F., Cai, J., Zhu, X., Fu, R., Lin, Z., Huang, Y., Chen, Y., Qi, W., Wang, Z., Ding, Q., & Zhu, Y. Z. (2025). A novel molecule ZYZ311 derivatized from Carvacrol ameliorates DSS-induced colitis in mice via inhibiting JAK2/STAT3. *International immunopharmacology*, 168(Pt1), 115763. Advance online publication. <https://doi.org/10.1016/j.intimp.2025.115763>. (Co-Corresponding author)
3. Zhang, Z., Hu, W., Ding, Q., & Zhu, Y. Z. (2025). New role of obscure acylation modifications in cardiovascular diseases: what's beyond?. *Life sciences*, 380, 123944. <https://doi.org/10.1016/j.lfs.2025.123944>. (Co-Corresponding author)
4. **Ding, Q.**, Cai, J., Jin, L., Hu, W., Song, W., Rose, P., Tang, Z., Zhan, Y., Bao, L., Lei, W., & Zhu, Y. Z. (2024). A novel small molecule ZYZ384 targeting SMYD3 for hepatocellular carcinoma via reducing H3K4 trimethylation of the Rac1 promoter. *MedComm*, 5(10), e711. <https://doi.org/10.1002/mco2.711> (IF:10.7)
5. **Ding, Q.**, Hu, W., Wang, R., Yang, Q., Zhu, M., Li, M., Cai, J., Rose, P., Mao, J., & Zhu, Y. Z. (2023). Signaling pathways in rheumatoid arthritis: implications for targeted therapy. *Signal transduction and targeted therapy*, 8(1), 68. <https://doi.org/10.1038/s41392-023-01331-9>. (IF:52.7)
6. **Ding, Q.**, Song, W., Zhu, M., Yu, Y., Lin, Z., Hu, W., Cai, J., Zhang, Z., Zhang, H., Zhou, J., Lei, W., & Zhu, Y. Z. (2024). Hydrogen Sulfide and Functional Therapy: Novel Mechanisms from Epigenetics. *Antioxidants & redox signaling*, 40(1-3), 110–121. <https://doi.org/10.1089/ars.2023.0425>.
7. **Ding, Q.**, Shao, C., Rose, P., & Zhu, Y. Z. (2020). Epigenetics and Vascular Senescence-Potential New Therapeutic Targets?. *Frontiers in pharmacology*, 11, 535395. <https://doi.org/10.3389/fphar.2020.535395>.
8. **Ding, Q.**, & Zhu, Y. Z. (2021). The Cardiovascular Effects of Hydrogen Sulfide: The Epigenetic Mechanisms. *Advances in experimental medicine and biology*, 1315, 181–203. https://doi.org/10.1007/978-981-16-0991-6_8
9. **Ding, Q.**, Bao, J., Zhao, W., Lu, J., Zhu, H., & Chen, X. (2016). Ethanol enhances

cucurbitacin B-induced apoptosis by inhibiting cucurbitacin B-induced autophagy in LO2 hepatocytes. *Molecular & Cellular Toxicology*, 12(1), 29-36. 6.

10. **Ding, Q.**, Bao, J., Zhao, W., Hu, Y., Lu, J., & Chen, X. (2015). Natural autophagy regulators in cancer therapy: a review. *Phytochemistry Reviews*, 14(1), 137-154.

11. Hu, W., Li, M., Sun, W., Li, Q., Xi, H., Qiu, Y., Wang, R., Ding, Q., Wang, Z., Yu, Y., Lei, H., Mao, Y., & Zhu, Y. Z. (2022). Hirsutine ameliorates hepatic and cardiac insulin resistance in high-fat diet-induced diabetic mice and in vitro models. *Pharmacological research*, 177, 105917. <https://doi.org/10.1016/j.phrs.2021.105917>

12. Wang, R., Li, M., Ding, Q., Cai, J., Yu, Y., Liu, X., Mao, J., & Zhu, Y. Z. (2021). Neuron navigator 2 is a novel mediator of rheumatoid arthritis. *Cellular & molecular immunology*, 18(9), 2288–2289. <https://doi.org/10.1038/s41423-021-00696-7>.

13. Wang, R., Cai, J., Chen, K., Zhu, M., Li, Z., Liu, H., Liu, T., Mao, J., Ding, Q., & Zhu, Y. Z. (2022). STAT3-NAV2 axis as a new therapeutic target for rheumatoid arthritis via activating SSH1L/Cofilin-1 signaling pathway. *Signal transduction and targeted therapy*, 7(1), 209. <https://doi.org/10.1038/s41392-022-01050-7>.

14. Li, M., Hu, W., Wang, R., Li, Z., Yu, Y., Zhuo, Y., Zhang, Y., Wang, Z., Qiu, Y., Chen, K., Ding, Q., Qi, W., Zhu, M., & Zhu, Y. (2022). Sp1 S-Sulfhydration Induced by Hydrogen Sulfide Inhibits Inflammation via HDAC6/MyD88/NF- κ B Signaling Pathway in Adjuvant-Induced Arthritis. *Antioxidants (Basel, Switzerland)*, 11(4), 732. <https://doi.org/10.3390/antiox11040732>.

15. Yu, Y., Wang, Z., Ding, Q., Yu, X., Yang, Q., Wang, R., Fang, Y., Qi, W., Liao, J., Hu, W., & Zhu, Y. (2021). The Preparation of a Novel Poly(Lactic Acid)-Based Sustained H₂S Releasing Microsphere for Rheumatoid Arthritis Alleviation. *Pharmaceutics*, 13(5), 742. <https://doi.org/10.3390/pharmaceutics13050742>.

16. Yu, Y., Yang, Q., Wang, Z., Ding, Q., Li, M., Fang, Y., He, Q., & Zhu, Y. Z. (2021). The Anti-Inflammation and Anti-Nociception Effect of Ketoprofen in Rats Could Be Strengthened Through Co-Delivery of a H₂S Donor, S-Propargyl-Cysteine. *Journal of inflammation research*, 15, 5863–5875. <https://doi.org/10.2147/JIR.S333326>.

17. Yu, Y., Wang, Z., Yang, Q., Ding, Q., Wang, R., Li, Z., Fang, Y., Liao, J., Qi, W., Chen, K., Li, M., & Zhu, Y. Z. (2021). A novel dendritic mesoporous silica based sustained hydrogen sulfide donor for the alleviation of adjuvant-induced inflammation in rats. *Drug delivery*, 28(1), 1031–1042. <https://doi.org/10.1080/10717544.2021.1921075>.

18. Lin, Z., Ding, Q., Li, X., Feng, Y., He, H., Huang, C., & Zhu, Y. (2022). Targeting

Epigenetic Mechanisms in Vascular Aging. *Frontiers in cardiovascular medicine*, 8, 806988. <https://doi.org/10.3389/fcvm.2021.806988>.

19. Zhu, M., Ding, Q., Lin, Z., Fu, R., Zhang, F., Li, Z., Zhang, M., & Zhu, Y. (2023). New Targets and Strategies for Rheumatoid Arthritis: From Signal Transduction to Epigenetic Aspect. *Biomolecules*, 13(5), 766. <https://doi.org/10.3390/biom13050766>.

20. Zhu, M., Ding, Q., Lin, Z., Chen, X., Chen, S., & Zhu, Y. (2021). New insights of epigenetics in vascular and cellular senescence. *Journal of translational internal medicine*, 9(4), 239–248. <https://doi.org/10.2478/jtim-2021-0049>.

21. Hu, W., Yan, G., Ding, Q., Cai, J., Zhang, Z., Zhao, Z., Lei, H., & Zhu, Y. Z. (2022). Update of Indoles: Promising molecules for ameliorating metabolic diseases. *Biomedicine & pharmacotherapy = Biomedecine & pharmacotherapie*, 150, 112957. <https://doi.org/10.1016/j.biopha.2022.112957>.

22. Chen, X., Bao, J., Guo, J., Ding, Q., Lu, J., Huang, M., & Wang, Y. (2012). Biological activities and potential molecular targets of cucurbitacins: a focus on cancer. *Anti-cancer drugs*, 23(8), 777–787. <https://doi.org/10.1097/CAD.0b013e3283541384>.

23. Lin, Y., Zhao, W. R., Shi, W. T., Zhang, J., Zhang, K. Y., Ding, Q., Chen, X. L., Tang, J. Y., & Zhou, Z. Y. (2020). Pharmacological Activity, Pharmacokinetics, and Toxicity of Timosaponin AIII, a Natural Product Isolated From *Anemarrhena asphodeloides* Bunge: A Review. *Frontiers in pharmacology*, 11, 764. <https://doi.org/10.3389/fphar.2020.00764>.

24. Zhu Yi zhun, **Ding Qian**, Cai Jianghong, Synthesis method and application of histone methyltransferase SMYD3 small molecule inhibitor, Licensed Patent, CN114246851B.