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Teaching activity: Pathophysiology, Pharmaceutical English, Molecular 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:

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

Academic achievements:

1. **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:39.3)

2. **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>. (IF:6.6)

3. **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>. (IF:5.6)

4. **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

5. **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.

6. **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.

7. 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>
8. Huang, C., Lin, Z., Liu, X., **Ding, Q.**, Cai, J., Zhang, Z., Rose, P., & Zhu, Y. Z. (2022). HDAC4 Inhibitors as Antivascular Senescence Therapeutics. *Oxidative medicine and cellular longevity*, 2022, 3087916. <https://doi.org/10.1155/2022/3087916>.
9. 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>.
10. 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>.
11. 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>.
12. 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>.

13. 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>.

14. 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>.

15. 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>.

16. 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>.

17. 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>.
18. 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>.
19. 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*, 14, 5863–5875. <https://doi.org/10.2147/JIR.S333326>.
20. 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>.
21. Chen, X. P., Lu, J. J., Guo, J. J., Bao, J. L., Xu, W. S., **Ding, Q.**, &

Wang, Y. T. (2012). Yao xue xue bao = Acta pharmaceutica Sinica, 47(11), 1423–1427.

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