

## Wenzhe MA, Ph.D.

Associate Professor  
State Key Laboratory of Quality Research in  
Chinese Medicine  
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Medicine and Health  
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Dr. Wenzhe Ma received his Ph.D. degree in Pharmacology at Shanghai Institute of Materia Medica, Chinese Academy of Sciences in 2005, and postdoctoral training shortly after that at the National Institutes of Health (NIH). He started his employment with the State Key Laboratory of Quality Research in Chinese Medicine, Macau University of Science and Technology, as Assistant Professor in 2012. He was promoted to Associate Professor in 2018. Dr. Ma is focusing on cancer metabolism and natural products with anticancer activities. He has published papers in top international journals, including the *New England Journal of Medicine*, *Nature Communications*, *Free Radical Biology and Medicine*, *PLoS One*, *Scientific Reports*, *Pharmacological Research*, *FEBS Letters*, *EBioMedicine*, *Phytomedicine*, and *Acta Pharmacologica Sinica*, either as first author or corresponding author. Dr. Ma has received five research funds from the Science and Technology Development Fund of Macau SAR as the principal investigator and has been granted seven international patents.

### Research Interests:

- Natural products with anticancer activities
- Cancer metabolism

### Education:

2002-2005 Ph.D. Shanghai Institute of Materia Medica,  
Chinese Academy of Sciences, China  
1999-2002 M.S. China Pharmaceutical University, China  
1995-1999 B.E. China Pharmaceutical University, China

### Professional Chronology:

2018-Present Associate Professor, State Key Laboratory of Quality Research in  
Chinese Medicine, Macau University of Science and Technology  
2012-2018 Assistant Professor, State Key Laboratory of Quality Research in  
Chinese Medicine, Macau University of Science and Technology

- 2007-2012    Research Fellow, Center for Molecular Medicine, National Heart,  
Lung and Blood Institute, National Institutes of Health
- 2006-2007    Postdoctoral Fellow, Center for Molecular Medicine, National Heart,  
Lung and Blood Institute, National Institutes of Health

**Teaching Subjects:**

Undergraduate: Microbiology and Immunology, Pharmacology of Chinese Materia Medica, Pharmacology and Toxicology, Pharmacological Experiment

Graduate: Genetic Engineering, Modern Biotechnology, Clinical Pharmacology,  
English for Pharmac.78W\* nBT/F1 12 Tf16 0 594.96 842.04 reW\* nBT/F1 12 Tf1 0 0 1 418.78 704.86 7

8. Sharpkate Shaker, Ting-Ting Sun, Liang-Yue Wang, **Wen-Zhe Ma**, Dong-Lan Wu, Yong-Wei Guo, Jun Dong, Yan-Xiu Chen, Long-Ping Zhu, De-Po Yang, Hou-Jin Li, Wen-Jian Lan. (2019) Reactive oxygen species altering the metabolite profile of the marine-derived fungus *Dichotomomyces cejpai* F31-1. *Natural Product Research*, <https://doi.org/10.1080/14786419.2019.1611816>
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10. Dong-Lan Wu, Hou-Jin Li, Duncan R. Smith, Janejira Jaratsittisin, Xia-Fu-Kai-Ti Xia-Ke-Er, **Wen-Zhe Ma**, Yong-Wei Guo, Jun Dong, Juan Shen, De-Po Yang and Wen-Jian Lan. (2018) Polyketides and Alkaloids from the Marine-Derived Fungus *Dichotomomyces cejpai* F31-1 and the Antiviral Activity of Scequinadoline A against Dengue Virus. *Marine Drugs*, doi: 10.3390/md16070229
11. Jiajun Huang, Ze Long, Wanjun Lin, Xiaolin Liao, Ying Xie, Liang Liu and **Wenzhe Ma**. (2018) Integrative omics analysis of p53-dependent regulation of metabolism. *FEBS Letters*, 592(3):380-393, doi: 10.1002/1873-3468.12968
12. Xiaolin Liao, Jiajun Huang, Wanjun Lin, Ze Long, Ying Xie and **Wenzhe Ma**. (2018) APTM, a Thiophene Heterocyclic Compound, Inhibits Human Colon Cancer HCT116 Cell Proliferation Through p53-Dependent Induction of Apoptosis. *DNA and Cell Biology*, 37(2):70-77
13. Li-Hong Huang, Meng-Yang Xu, Hou-Jin Li, Jin-Qian Li, Yan-Xiu Chen, **Wen-Zhe Ma**, Jun Xu, De-Po Yang, and Wen-Jian Lan (2017) Amino Acid-Directed Strategy for Inducing the Marine-Derived Fungus *Scedosporium apiospermum* F41 1 to Maximize Alkaloid Diversity. *Organic Letters*, 19(18):4888-4891
14. Yan-Xiu Chen, Meng-Yang Xu, Hou-Jin Li, Kun-Jiao Zeng, **Wen-Zhe Ma**, Guo-Bao Tian, Jun Xu, De-Po Yang and Wen-Jian Lan (2017) Diverse Secondary Metabolites from the Marine-Derived Fungus *Dichotomomyces cejpai* F31-1. *Marine Drugs*, doi: 10.3390/md15110339
15. Li-Hong Huang, Yan-Xiu Chen, Jian-Chen Yu, Jie Yuan, Hou-Jin Li, **Wen-Zhe Ma**, Ramida Watanapokasin, Kun-Chao Hu, Shah Iram Niaz, De-Po Yang and Wen-Jian Lan (2017) Secondary Metabolites from the Marine-Derived Fungus *Dichotomomyces* sp. L-8 and Their Cytotoxic Activity. *Molecules*, doi:10.3390/molecules22030444
16. Wanjun Lin, Jiajun Huang, Zhongwen Yuan, Senling Feng, Ying Xie and **Wenzhe Ma**. (2017) Protein kinase C inhibitor chelerythrine selectively inhibits proliferation of triple-negative breast cancer cells *in vitro*. *Scientific Reports*, doi:10.1038/s41598-017-02222-0
17. Wanjun Lin, Jiajun Huang, Xiaolin Liao, Zhongwen Yuan, Senling Feng, Ying Xie and **Wenzhe Ma**. (2016) Neo-tanshinlactone selectively inhibits the proliferation of estrogen receptor positive breast cancer cells through transcriptional down-regulation of estrogen receptor alpha. *Pharmacological Research*, 111:849-858
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from *Gynostemma pentaphyllum* (Thunb.) Makino. *Evidence-Based Complementary and Alternative Medicine*, 2016 doi: 10.1155/2016/6308649

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22. Zhongwen Yuan, Elaine Lai-Han Leung, Xingxing Fan, Hua Zhou, **Wenzhe Ma**, Liang Liu, and Ying Xie. (2015) Quantitative evaluation of berberine subcellular distribution and cellular accumulation in non-small cell lung cancer cells by UPLC MS/MS. *Talanta* 144: 20-28.
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25. Ping-yuan Wang\*, **Wenzhe Ma\***, Joon-Young Park, Francesco S. Celi, Ross Arena, Jeong W. Choi, Qais A. Ali, Dotti J. Tripodi, Jie Zhuang, Cory U. Lago, Louise C. Strong, S. Lalith Talagala, Robert S. Balaban, Ju-Gyeong Kang, Paul M. Hwang (2013) Increased Oxidative Metabolism in the Li Fraumeni Syndrome. *NEW ENGLAND JOURNAL of MEDICINE*, 368(11):1027-1032 (\*Co-first author)
26. Jie Zhuang, **Wenzhe Ma**, Cory U. Lago, Paul M. Hwang (2012) Metabolic regulation of oxygen and redox homeostasis by p53: Lessons from evolutionary biology? *Free Radical Biology and Medicine*, 53(6):1279-1285
27. Ho Joong Sung\*, **Wenzhe Ma\***, Matthew F. Starost, Cory U. Lago, ~~Michael N.Sack~~, Ju-Gy

**Ma, Jeong W. Choi, Stasia A. Anderson Scot C. Leary, Robert S. Balaban, Ju-Gyeong Kang, Paul M. Hwang (2009). p53 Improves Aerobic Exercise Capacity and Augments Skeletal Muscle Mitochondrial DNA Content. *Circulation Research*, 105(7):705-712**

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33. **MA Wen-Zhe, HAN Wei, QIN Wen-Xin, WAN Da-Fang, GU -**

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