

馬文哲博士



副教授
中藥質量研究國家重點實驗室
澳門科技大學
地址：澳門氹仔偉龍馬路 I 座 I01-115 室
電話：+853-88972462
傳真：+853-28825886
電郵：wzma@must.edu.mo

2005年博士畢業于中國科學院上海藥物研究所，隨後在美國國立衛生研究院（NIH）進行博士後研究及工作，2012年入職澳門科技大學中藥質量研究國家重點實驗室，現為副教授，項目負責人。馬文哲博士主要從事腫瘤代謝及抗腫瘤天然產物的發現及機理研究，第一或通訊作者文章發表在New England Journal of Medicine、Nature Communications、Free Radical Biology and Medicine、PLoS One、Scientific Reports、Pharmacological Research、FEBS Letters、EBioMedicine、Phytomedicine、Acta Pharmacologica Sinica等雜誌上；主持澳門科技發展基金項目5項；第一發明人獲批4項澳洲專利及2項美國專利；參編國家衛生和計劃生育委員會“十三五”規劃教材《分子毒理學》。

研究方向：

- 腫瘤代謝
- 抗腫瘤天然產物的發現及機理研究

學歷：

2002/09-2005/07	博士	藥理學	中國科學院上海藥物研究所
1999/09-2002/07	碩士	微生物與生化藥學	中國藥科大學
1995/09-1999/07	學士	微生物製藥	中國藥科大學

專業經歷：

2018/07-至今	副教授	澳門科技大學
2012/08-2018/06	助理教授	澳門科技大學
2007/08-2012/07	研究專員	美國國立衛生研究院
2006/01-2007/07	博士後	美國國立衛生研究院

參編教材：

1. 《分子毒理學》，國家衛生和計劃生育委員會“十三五”規劃教材，人民衛生出版社，2017年第1版，2021年第2版

研究論文：

1. Xiaoming Huang, Fuming Zhang, Kun Zhu, Wanjun Lin, **Wenzhe Ma**. (2021). dsmCRISPR: Dual synthetic mismatches CRISPR/Cas12a-based detection of SARS-CoV-2 D614G mutation. *Virus Research*, 304: 198530
2. Jingjing Du, Lishuang Wang, Xiaoming Huang, Na Zhang, Ze Long, You Yang, Fangfang Zhong, Bowen Zheng, Wenjian Lan, Wanjun Lin, **Wenzhe Ma**. (2021). Shuganning injection, a traditional Chinese patent medicine, induces ferroptosis and suppresses tumor growth in triple-negative breast cancer cells. *Phytomedicine*, 153551
3. Na Zhang, Bowen Zheng, Xiaojun Yao, Xiaoming Huang, Jingjing Du, Yunfu Shen, Zhe Huang, Junhe Chen, Qianyu Lin, Wenjian Lan, Wanjun Lin, **Wenzhe Ma**. (2021). Identification and characterization of a novel mutant isocitrate dehydrogenase 1 inhibitor for glioma treatment. *Biochemical and Biophysical Research Communications*, 551: 38-45
4. Xiao-Jing Liu, Hou-Jin Li, **Wen-Zhe Ma**, Fu-Ming Zhang, Meng-Yang Xu, Taifo Mahmud, Wen-Jian Lan. (2021). Phomaligols F–I, polyoxygenated cyclohexenone derivatives from marine-derived fungus *Aspergillus flavus* BB1. *Bioorganic Chemistry*, 115:105269
5. Fangfang Zhong, You Yang, Danwei Ren, Sili Long, Xiang Qin, Jing Liu, Yan Zeng, Wenjian Lan, **Wenzhe Ma**, Wenjun Liu. (2021). Hirsutanol A inhibits T-acute lymphocytic leukemia Jurkat cell viability through cell cycle arrest and p53-dependent induction of apoptosis. *Exp Ther Med*, 22(1):741
6. Xiao-ming Huang, Jia-jun Huang, Jing-jing Du, Na Zhang, Ze Long, You Yang, Fang-fang Zhong, Bo-wen Zheng, Yun-fu Shen, Zhe Huang, Xiang Qin, Jun-he Chen, Qian-yu Lin, Wan-jun Lin, **Wen-zhe Ma**. (2021). Autophagy inhibitors increase the susceptibility of KRAS-mutant human colorectal cancer cells to a combined treatment of 2-deoxy-D-glucose and lovastatin. *Acta Pharmacologica Sinica*, 42(11):1875-1887
7. You Yang, Fangfang Zhong, Xiaoming Huang, Na Zhang, Jingjing Du, Ze Long, Bowen Zheng, Wanjun Lin, Wenjun Liu, **Wenzhe Ma**. (2020). High expression of HOXA5 is associated with poor prognosis in acute myeloid leukemia. *Current Problems in Cancer*, 100673
8. Xiaoming Huang, Jue Wang, Wanjun Lin, Na Zhang, Jingjing Du, Ze Long, You Yang, Bowen Zheng, Fangfang Zhong, Qibiao Wu, **Wenzhe Ma**. (2020) Kanglaite injection plus platinum-based chemotherapy for stage III/IV non-small cell lung cancer: A meta-analysis of 27 RCTs. *Phytomedicine*, 67:153154
9. Jiajun Huang, Jingjing Du, Wanjun Lin, Ze Long, Na Zhang, Xiaoming Huang, Ying Xie, Liang Liu, **Wenzhe Ma**. (2019) Regulation of lactate production through p53/ β -enolase axis contributes to statin-associated muscle symptoms. *EBioMedicine*, <https://doi.org/10.1016/j.ebiom.2019.06.003>
10. Ze Long, Xiaolin Liao, Jiajun Huang, Na Zhang, Xiaoming Huang, Jingjing Du, Wanjun Lin, **Wenzhe Ma**. (2019) QHMEM, a Quinazolinone Compound, Inhibits Proliferation and Induces Apoptosis in Human Colon Cancer HCT116 Cells. *Latin American Journal of Pharmacy*, 38(4):663-667

11. 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 cejpaii* F31-1. *Natural Product Research*, <https://doi.org/10.1080/14786419.2019.1611816>
12. 張娜，黃嘉駿，林婉君，龍澤，黃曉明，杜晶晶，**馬文哲** (2019) 腦膠質瘤中異檸檬酸脫氫酶突變及其抑制劑研究進展，*中國藥學雜誌*，54(3): 165-169
13. 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 cejpaii* F31-1 and the Antiviral Activity of Scequinadoline A against Dengue Virus. *Marine Drugs*, doi: 10.3390/md16070229
14. 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
15. 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
16. 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
17. 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 cejpaii* F31-1. *Marine Drugs*, doi: 10.3390/md15110339
18. 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
19. 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
20. 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
21. Yantao Li, Wanjun Lin, Jiajun Huang, Ying Xie and **Wenzhe Ma**. (2016) Anti-cancer effects of *Gynostemma pentaphyllum* (Thunb.) Makino (Jiaogulan). *Chinese Medicine*, 11:43-58
22. Yantao Li, Jiajun Huang, Wanjun Lin, Zhongwen Yuan, Senling Feng, Ying Xie and **Wenzhe Ma**. (2016) In Vitro Anticancer Activity of a Nonpolar Fraction

from *Gynostemma pentaphyllum* (Thunb.) Makino. *Evidence-Based Complementary and Alternative Medicine*, 2016 doi: 10.1155/2016/6308649

23. Senling Feng, Zhongwen Yuan, Xiaojun Yao, **Wenzhe Ma**, Liang Liu, Zhongqiu Liu and Ying Xie. (2016) Tangeretin, a citrus pentamethoxyflavone, antagonizes ABCB1-mediated multidrug resistance by inhibiting its transport function. *Pharmacological Research*, 110:193-204
24. **Wenzhe Ma**, Senling Feng, Xiaojun Yao, Zhongwen Yuan, Liang Liu, and Ying Xie. (2015) Nobiletin enhances the efficacy of chemotherapeutic agents in ABCB1 overexpression cancer cells. *Scientific Reports* 5: 18789
25. 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.
26. Jie Li*, **Wenzhe Ma***, Ping-yuan Wang, Paula J. Hurley, Fred Bunz, Paul M. Hwang (2014) Polo-like kinase 2 activates an antioxidant pathway to promote the survival of cells with mitochondrial dysfunction. *Free Radical Biology and Medicine* 73: 270-277. (*Co-first author)
27. Ying Xie, Zhihong Jiang, Hua Zhou, **Wenzhe Ma**, Yuenfan Wong, Zhongqiu Liu, Liang Liu (2014) The pharmacokinetic study of sinomenine, paeoniflorin and paeonol in rats after oral administration of a herbal product Qingfu Guanjesu capsule by HPLC. *Biomedical Chromatography* 28: 1294-1302
28. 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)
29. 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
30. Ho Joong Sung*, **Wenzhe Ma***, Matthew F. Starost, Cory U. Lago, Michael N.Sack, Ju-Gyeong Kang, Ping-yuan Wang, and Paul M. Hwang (2011). Ambient Oxygen as a Tumor Promoter. *PLoS ONE*, 6(5):e19785 (*Co-first author)
31. Cory U. Lago, Ho Joong Sung, **Wenzhe Ma**, Ping-yuan Wang & Paul M. Hwang (2011). p53, Aerobic Metabolism and Cancer. *Antioxidants & Redox Signaling*, doi:10.1089/ars.2010.365
32. Ho Joong Sung*, **Wenzhe Ma***, Ping-yuan Wang, James Hynes, Tomas C. O’Riordan, Christian A. Combs, J. Philip McCoy Jr., Fred Bunz, Ju-Gyeong Kang & Paul M. Hwang (2010). Mitochondrial Respiration Protects Against Oxygen-associated DNA Damage. *Nature Communications*, 1:5 doi: 10.1038/ncomms1003 (*Co-first author)
33. Takumi Matsumoto, Ping-yuan Wang, **Wenzhe Ma**, Ho Joong Sung, Satoaki Matoba, and Paul M. Hwang (2009). Polo-like kinases mediate cell survival in mitochondrial dysfunction. *PNAS*, 106(34): 14542-11546
34. Joon-Young Park, Pingyuan Wang, Takumi Matsumoto, Ho-Joong Sung, **Wenzhe**

- 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
35. **Wenzhe Ma**, Ho Joong Sung, Joon Y. Park, Satoaki Matoba, Paul M. Hwang. (2007). A pivotal role for p53: balancing aerobic respiration and glycolysis. *Journal of Bioenergetics and Biomembranes*, 39(3):243-246
36. **MA Wen-Zhe**, HAN Wei, QIN Wen-Xin, WAN Da-Fang, GU Jian-Ren, YANG Sheng-Li, GONG Yi (2006). Expression and purification of a putative tumor suppressor gene PP5715 in E.coli with growth inhibition to hepatocellular carcinoma cells. *Protein and Peptide Letters*, 13: 41-45
37. **MA Wen-Zhe**, SHEN Qiong, HAN Wei, LU Chen-Yi, YANG Sheng-Li, GONG Yi (2005). Construction, expression, purification and antiviral activity of fusing interferon-BLA (IFN-BLA). *Hereditas* (Beijing), 27 : 451-456
38. Qiong Shen, Ruiyang Tian, **Wenzhe Ma**, Qinsheng Yuan and Yi Gong (2005). Construction and expression of a new fusion protein thymosin α 1-cBLyS in E.coli. *Biotechnology Letters*, 27: 143-148
39. 王魯燕; 朱春寶; **馬文哲**; 陳代杰; 許文思 (2002). 頭狀鏈黴菌中絲裂黴素C抗性基因mcrAB的克隆及其作用研究. *中國抗生素雜誌*, 27: 748-752
40. **馬文哲**; 王魯燕; 馮艷春; 陳代杰; 許文思 (2002). 頭狀鏈黴菌原生質體的製備及其誘變 *中國藥科大學學報*, 33: 62-65