Curriculum Vitae

PERSONAL INFORMATION

Name: Xu-Dong Zhou

Gender: Male

Nationality: Chinese

Address: 300 Xueshi Road, Pharmacy School Office Hanpu Science & Technology Park, Yuelu District, Changsha, Hunan, China 410208

Telephone: +86-19522635868

Email: xudongzhou999@hnucm.edu.cn; xudongzhou999@163.com

ORCID: 0000 0001 7445 5428

RESEARCH INTERESTS

1. Bioactive natural products;
2. Anticancer and anti-infective drug discovery;
3. Novel constituents and structure analysis;
4. Natural products inspired synthesis and structural modification

WORK EXPERIENCES

Aug. 2019 to present Hunan University of Chinese Medicine, Hunan province, China.

Associate professor, Master instructor, focusing on the discovery of bioactive compounds from local ethnic medicines using diverse chromatographic and spectroscopic techniques (NMR, MS, IR), such as *Artemisia frigida*, *Ampelopsis grossedentata*, and teaching the laboratory classes of "Natural Products Chemistry" for undergraduate students and "Spectrum analysis" for graduate students.

Nov. 2016 to Jul. 2019 Wenzhou Medical University, Zhejiang province, China.

Lecturer, secretary of department of Traditional Chinese Medicine, focusing on phytochemistry of *Fraxinus hubeiensis* and *Artemisia frigida*, and teaching "Natural Products Chemistry" for undergraduate pharmacy students and "Spectrum analysis" for graduate students.

Sep. 2015 to Sep. 2016 Shanghai applied protein technology co.ltd, Shanghai, China.

Project leader, mainly responsible for conducting methods optimization of proteomic researches such as proteins preparation and identification, and routine experiments on protein qualitation and quantitation based on LC-MS/MS with methods (Shotgun, Label free, Itraq) and equipments (Thermo Fisher Scientific Q Exactive™ and EASY-nLC™ 1200 System, and AB SCIEX MALDI-TOF/TOF™ 5800).

EDUCATION BACKGROUND

Peking University, Beijing, China **Ph.D.** **9/2012-7/2015**

Major: Pharmacognosy (phytochemistry, natural product chemistry)

School of Pharmaceutical Science

Dalian University, Dalian, Liaoning, China **M.S.** **9/2009-7/2012**

Major: Organic chemistry

College of Environment and Chemical Engineering

Hengyang Normal University, Hunan, China **B.S.** **9/2005-7/2009**

Major: Applied chemistry

Department of Chemistry

PUBLICATIONS

1. Xin-Yi Liu [#], Hong-Xia Tang [#], Wen-Bing Sheng, Qu-Jing Luo, Lin-Xi Mao, Yu-Pei Yang, Xiao-Zhou Guo, Qing-Lai Wu, Yu-Qing Jian, Wei Wang[*], **Xu-Dong Zhou**[*]. Glycosides from the leaves of *Fraxinus hubeiensis*. *BMC Chemistry* **2023**, 17:182
2. Qu-Jing Luo, Wen-Chao Zhou, Xin-Yi Liu, Ya-Jie Li, Qing-Ling Xie, Bin Wang, Chao Liu, Wen-Mao Wang, Wei Wang[*], **Xu-Dong Zhou**[*]. Chemical Constituents

and α-Glucosidase Inhibitory, Antioxidant and Hepatoprotective Activities of *Ampelopsis grossedentata*. *Molecules* **2023**, 28, 7956

3. Li-Min Gong, Hong-Xia Tang, Ya-Jie Li, Rui-Ding Wen, Xin-Yi Liu, Yu-Wen Deng, Qing-Lai Wu, Zhi-Feng, Zhang, **Xu-Dong Zhou**[*], Wei Wang[*]. Chemical constituents from the leaves of Fraxinus hubeiensis, an endemic plant from China. Biochemical Systematics and Ecology **2024**, 114:104821
4. Hong-Xia Tang[#], Cai-Yun Peng[#], Wen-Bing Sheng, Xin-Yi Liu, Chao-Xi Chen, Li-Min Gong, Qing-Ling Xie, Chang-Qing Ye, Jing Ye, Bin Li, Wei Wang[*], **Xu-Dong Zhou**[*]. Chemical constituents of *Artemisia frigida*. *Chemistry of Natural Compounds* **2022**, 58 (4): 735-737
5. Hong-Xia Tang[#], Wen-Bing Sheng[#], Xin-Yi Liu, Pei-Wu Cui, Li-Min Gong, Qing-Ling Xie, Wen-Mao Wang, Bin Li, Wei Wang[*], **Xu-Dong Zhou**[*]. The traditional ethnic herb Tadehagi triquetrum from China: a review of its phytochemistry and pharmacological activities. *Pharmaceutical Biology* **2022**, 60(1): 774-784
6. Yiyuan Xi, Jujia Zheng, Wei Xie, Xiangwei Xu, Namki Cho[*], **Xudong Zhou**[*], Xiaomin Yu[*]. (+)-Dehydrovomifoliol alleviates oleic acid-induced lipid accumulation in HepG2 cells via the PPARα–FGF21 pathway. *Frontier in Pharmacology* **2021**, Doi: 10.3389/fphar.2021.750147
7. **Xu-Dong Zhou**, Chao-Xi Chen, Xi-Kang Zheng, Li-Min Gong, Ke-Wu Zeng, Wei Wang [*], Peng-Fei Tu[*]. Dibenzocyclooctadiene lignans from *Artemisia sieversiana* and their anti-inflammatory activities. *Journal of Natural Medicines* **2021**, 75: 1014-1020. DOI：10.1007/s11418-021-01532-y
8. **Xu-Dong Zhou**, Xiang-Wei Xu, Lu-Yong Shi, Sheng-Huang Chen, Ke-Wu Zeng, Peng-Fei Tu[*]. Two new ditetrahydrofuran lignans from *Artemisia sieversiana*. *Natural Product Research* **2020**, 13: 1-7. DOI: 10.1080/14786419.2020.1712384.
9. Xiang-Wei Xu[#], Chao-Xi Chen[#], Ze-Dong Nan, Wen-Bing Sheng, Li-Min Gong, **Xu-Dong Zhou**[*]. Phenolic and acid derivatives from *Artemisia sieversiana*. Chemistry of Natural Compounds **2021**, 57(2): 250-253
10. Chang-Qing Ye, Jia-Yi Zhang, Zhi-Cheng Zhi, Mei-Tian Xiao, **Xu-Dong Zhou**[*], Jing Ye[*]. A new lignan from *Schefflera arboricola*. *Journal of Chemical Research* **2020**, 44:532-535, DOI:10.1177/1747519820910383.
11. Chi-Na Zhao[#], Zong-Li Yao[#], Dan Yang, Jian Ke, Qing-Lai Wu[*], Jun-Kai Li[*], **Xu-Dong Zhou**[*]. Chemical constituents from *Fraxinus hupehensis* and their antifungal and herbicidal activities. *Biomolecules* **2020**, 10(1):74. DOI: 10.3390/biom10010074.
12. **Xu-Dong Zhou**, Xiang-Wei Xu, Yi-Yuan Xi, Yuan Zhou[*]. Terpenoid and phenolic constituents from the roots of *Ilex pubescens*. *Fitoterapia* **2019**, 138:104298. DOI: 10.1016/j.fitote.2019.104298.
13. Xingliang Lu, Xiang Zhu, Min Zhang, Qinglai Wu[*], **Xudong Zhou**[*], Junkai Li[*]. Synthesis and fungicidal activity of 1,3,4-oxadiazol-2-yl thioether derivatives containing a phenazine-1-carboxylic acid scaffold. *Natural Product Research* **2019**, 33:2145–2150. DOI: 10.1080/14786419.2018.1489389.
14. Yongtong Xiong[#], Guan Huang[#], Zongli Yao, China Zhao, Xiang Zhu, Qinglai Wu[*], **Xudong Zhou**[*], Junkai Li[*]. Screening Effective Antifungal Substances from the

Bark and Leaves of *Zanthoxylum avicennae* by the Bioactivity-Guided Isolation Method. *Molecules* **2019**, 24:4207. DOI: 10.3390/molecules24234207.

15. Lishang Dai[*], **Xudong Zhou** [#], Saima Kausar [#], Muhammad Nadeem Abbas [#], Liang Wu, Hailing Zhou. Mitochondrial genome of *Diaphania indica* (saunders) (Lepidoptera: Pyraloidea) and implications for its phylogeny. *International Journal of Biological Macromolecules* **2018**, 108: 981–989. DOI: 10.1016/j.ijbiomac.2017.11.011.
16. **Xu-Dong Zhou**, Chen Zhang, Shan He, Bin Zheng, Ke-Wu Zeng, Ming-Bo Zhao, Yong Jiang[*], Peng-Fei Tu[*]. New terpenoids and thiophene derivatives from the aerial parts of *Artemisia sieversiana*. *Bioorganic & Medicinal Chemistry Letters* **2017**, 27: 5441–5445. DOI: 10.1016/j.bmcl.2017.10.077.
17. **Xu-Dong Zhou**, Xing-Yun Chai, Ke-Wu Zeng, Ming-Bo Zhao, Yong Jiang, Peng-Fei Tu[*]. Artesin A, a new cage-shaped dimeric guaianolide from *Artemisia sieversiana*. *Tetrahedron Letters* **2015**, 56:1141–1143. DOI: 10.1016/j.tetlet.2015.01.081. (**Hot Off in Natural Product Reports**)
18. **Xu-Dong Zhou**, Xiao-Chao Lv, Li-Ying Shi, Da-Yong Shi, Yong-Qi Wang. Research on constituents from the air part of *Tadehagi triquetrum*. *Guihaia* **2013**, 33(4): 575–578. DOI:1000-3142 (2013) 04-0575-04.
19. Chuan Qin, Di-Ya Yu, **Xu-Dong Zhou**, Min Zhang, Qing-lai Wu[*], Jun-Kai Li[*]. Synthesis and antifungal evaluation of PCA amide analogues. *Journal of Asian Natural Products Research* **2019**, 21:587-596. DOI: 10.1080/10286020.2018.1461843.
20. Shuping Hu, Min Zhao, Yiyuan Xi, Qiqi Mao, **Xudong Zhou**, Dawei Chen[*], Pengcheng Yan[*], Nontargeted screening and determination of sulfonamides: a dispersive micro solid-phase extraction approach to the analysis of milk and honey samples using liquid chromatography-high-resolution mass spectrometry. *J. Agric. Food Chem.* **2017**, 65: 1984–1991. DOI: 10.1021/acs.jafc.6b05773.
21. Xiao-Ying Yin, Qing-Shan Liu, Xing-Xia Ma, **Xu-Dong Zhou**, Ming-Bo Zhao, Peng-Fei Tu[*]. Correlation study between molecular structure of sesquiterpene lactones and the selective adsorption performance of molecularly imprinted polymers. *Journal of Chromatography A* **2014**, 1354: 9–17. DOI: 10.1016/j.chroma.2014.05.043