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研究方向：生物活性天然产物的合成，新药研究与开发

#### 教育经历：

1983. 9—1987. 7 北京大学化学系获学士学位；

1987. 9—1990. 7 北京大学化学系有机化学专业获理学硕士学位；

1999. 9—2002. 7 中国医学科学院药物所药物化学专业获理学博士学位。

#### 工作经历：

1990. 7—1999. 8 在河北省药物研究所工作，先后任工程师、高级工程师，课题组长，从事新药研究与开发工作；

1996. 8—1997. 7 在美国Georgia Institute of Technology化学与生物学院进修，从事可卡因拮抗剂的合成和毒瘾戒断活性的研究；

2002. 7—现在 在中国医学科学院药物研究所工作，先后任副研究员、研究员，课题组长；

2005年任博士生导师。

#### 主要研究工作：

曾长期从事新药的研究与开发工作，主持并完成多项国家及省部级课题，成功开发了全身麻醉药、抗前列腺增生药、抗乳腺癌以及抗癫痫等多种药物；近年来主要从事创新药物的研究与开发工作，以具有强生物活性的天然产物特别是海洋天然产物为结构先导物，利用全合成的手段，设计、合成具有生物活性的结构类似物，研究其构效关系，以期能够发现具有自主知识产权的新药，目前本课题组承担有国家自然科学基金、北京市自然科学基金、教育部博士点基金等多项课题。历年来发表研究论文50余篇。

#### 近年发表论文：

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2. Wei Liu, Xiangwei Liao, Wenfang Dong, Zheng Yan, Nan Wang, Zhanzhu Liu\*, Total synthesis and cytotoxicity of (-)-jorumycin and its analogues, **Tetrahedron**, 2012, 68, 2759-2764.
3. Wenfang Dong, Wei Liu, Zheng Yan, Xiangwei Liao, Baohe Guan, Nan Wang, Zhanzhu Liu\*, Asymmetric synthesis and cytotoxicity of (-)-saframycin A analogues, **European Journal of Medicinal Chemistry**, 2012, 49, 239-244
4. Wenfang Dong, Wei Liu, Xiangwei Liao, Baohe Guan, Shizhi Chen, Zhanzhu Liu\*, Asymmetric total synthesis of (-)-saframycin A from L-tyrosine, **The Journal of Organic Chemistry**, 2011, 76, 5363 - 5368
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6. YU Ran, ZHOU Yan-li, HUAN Yi, LIU Quan, SHEN Zhu-fang, LIU Zhan-zhu\*, Design, Synthesis, and PPAR $\alpha$ / $\gamma$  Agonistic Activity of Novel Tetrahydroisoquinoline Derivatives, **Acta Pharmaceutica Sinica**, 2011, 46 (3), 311-316 (in Chinese)
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11. Geng Xu, Zhan Zhu Liu\*, Enantioselective addition of diethylzinc to aryl aldehydes catalyzed by 1,2,3,4-tetrahydroisoquinoline  $\beta$ -amino alcohol, **Chinese Chemical Letters**, 2010, 21, 309-311
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13. Xiang Wei Liao, Wen Fang Dong, Wei Liu, Bao He Guan, Zhan Zhu Liu\*, Total Synthesis of (-)-MY 336a from L-Tyrosine, **Journal of Heterocyclic Chemistry**, 2010, 47, 50-53
14. Ke Wang, Zhanzhu Liu\*, Synthesis of Arcyriarubin A and Arcyriaflavin A via Cross-coupling of Indolylboronic Acid with Dibromomaleimides, **Synthetic Communications**, 2010, 40, 144 - 150
15. Geng Xu, Zhan Zhu Liu\*, Synthesis of New Chiral 1,2,3,4-Tetrahydroisoquinoline  $\beta$ -Amino Alcohol for Asymmetric Diethylzinc Addition to

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21. Ye WANG, Yan Li ZHOU, Zhan Zhu LIU\*, Shi Zhi CHEN, Xiao Guang CHEN, Synthesis and antitumor activity of an analog of phthalascidin, *Chinese*

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Vol. 16, No. 5, P1282-1285

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