

# Prof. Fanhong Wu

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## ***Research Overview***

The Professor Fanhong Wu's group focused on the development of chiral fluoro-containing drugs and fluoro-containing active compounds, novel synthesis methodologies of fluoro-containing compounds, process research and development of raw materials and important intermediates of cardiovascular drugs and central nervous system drugs.

## ***Awards***

- The third-class Award for Technology Invention of the Science and Technology Prize of Shanghai in 2014
- Gold Award in the 26th Shanghai Award for Outstanding Invention in 2014
- Shanghai YuCai Award in 2012
- Outstanding Academic Leader of Shanghai in 2012
- Gold Award in the 22th Shanghai Award for Outstanding Invention in 2009
- The third-class Award for Technology Invention of the Science and Technology Prize of Shanghai in 2007

## ***Books***

- Fanhong Wu, Yujie Ren. Organic Chemistry. Higher Education Press, Beijing, China. 2014.

## ***Publications***

1. Zhong-lin Ma, Xiao-jing Yan, Lei Zhao, Jiu-jiu Zhou, Wan Pang, Zhen-peng Kai\*, Fan-hong Wu\*, Combretastatin A-4 and Derivatives: Potential Fungicides Targeting Fungal Tubulin, J. Agric. Food Chem. 2016, 64 (4), 746–751.
2. Qingqing Tian, Fang Ding, Lingling Guo, Jing Wang, Fanhong Wu\*, Yanyan Yu\*. Targeted solid lipid nanoparticles with peptide ligand for oral delivery of atorvastatin calcium. RSC Advances. 2016, 6(42), 35901-35909

3. Feifei Su, fulong Wu, He Tang, Zhonghua Wang\*, Fanhong Wu\*. Efficient and facile synthesis of novel stable monodeuterium labeled ractopamine. *J. Label Compd. Radiopharm.* 2015, 58, 479–482.
4. Lei Zhao, Jiu-Jiu Zhou, Xin-Ying Huang, Li-Ping Cheng, Wan Pang \*, Zhen-Peng Kai \*, Fan-Hong Wu\*. Design, synthesis and anti-proliferative effects in tumor cells of new combretastatin A-4 analogs. *Chin. Chem. Lett.*, 2015, 26, 993–999.
5. Jiexiong Wang, Jingjing Wu\*, Heng Chen, Shaowu Zhang, Fanhong Wu\*. Synthesis of difluoroalkyl- $\gamma$ -butyrolactones from iododifluoromethyl ketones and 4-pentenoic acids. *Chin. Chem. Lett.*, 2015, 26, 1381–1384.
6. Lili Yan, Jingjing Wu\*, Heng Chen, Shaowu Zhang, Zhi Wang, Hui Wang, Fanhong Wu\*. Synthesis and in vitro antibacterial activity of novel fluoroalkyl-substituted pyrazolyl oxazolidinones, *RSC Advances*, 2015, 5, 73660–73669.
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8. Peng Liu, Zhenjiang Liu\*, Fanhong Wu\*. Highly Regio- and Diastereoselective Addition of Organolithium Reagents to Chiral Fluoroalkyl  $\alpha,\beta$ -Unsaturated N-tert- Butanesulfinyl Ketimines, A General and Efficient Access to Tertiary Fluoroalkyl Allylic Amines and  $\alpha$ -Fluoroalkyl  $\alpha$ -Amino Acids. *Adv. Syn. Catal.*, 2015, 357, 818-822.
9. Yan Yin\*, Hong Zhou, Xichen Liu, Haiying Chen, Fanhong Wu, Heng Zhang, Ruiheng Tao, Fengkai Cheng, Yangbo Feng. A metal-free and recyclable synthesis of benzothiazoles using thiourea as a sulfur surrogate. *Tetrahedron letter.* 2015, 56, 1709-1712.
10. Ding Mei, Yan Yin\*, Fanhong Wu, Jiaying Cui, Hong Zhou, Guofeng Sun, Yu Jiang, Yangbo Feng. Discovery of potent and selective urea-based ROCK inhibitors: Exploring the inhibitor's potency and ROCK2/PKA selectivity by 3D-QSAR, molecular docking and molecular dynamics simulations. *Bioorg. Med. Chem.*, 2015, 23(10), 2505-2517.
11. Qianqian Lv , Zhi Wang , Zhonghua Wang\*, Fanhong Wu\*, Liping Cheng . 3D-QSAR and Docking Studies on 2-acyliminobenzimidazoles Derivatives as Potent ALK Inhibitors. *Lett. Drug Des. Disco.*, 2015, 12, 219-233.

12. Jinju Chen, Chuanxiang Liu\*, Fengjie Guan, Chuanxiu Zhang, Kai Ji, Xinyu Wang, Min Xu, Fanhong Wu\*. Derivatives of  $\alpha,\alpha$ -aryl Naphthalimide Nitriles as Fluoride ion Sensors, Convenient Precursors for the Synthesis of Aryl Naphthalimide. *synlett.* 2015, 26, 6109-6112.
13. Yan Yin\*, Guofeng Sun, Heng Zhang, Hong Zhou, Fanhong Wu. Enantioselective Chalcogeno-Baylis-Hillman Reaction of Benzaldehydes with MVK and Acrylates Catalyzed by Chiral Thiopin-TiCl<sub>4</sub> Complex. *Chin. J. Chem.*, 2014, 32, 365-369.
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19. Jinju Chen, Chuanxiang Liu,\* Jiali Zhang, Wen Ding, Min Zhou, Fanhong Wu\*. A novel chemodosimeter for fluoride ions based on deprotonation of the C-H group followed by an autoxidative decyanation process. *Chem. Comm.*, 2013, 49, 10814-10816.
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24. Ibrayim Saidalimu, Xiang Fang\*, Wenwen Lv, Xueyan Yang, Xiaopeng He, Jingyuan Zhang, Fanhong Wu\*. Organocatalytic Asymmetric Michael Addition/Carbon-Carbon Bond Cleavage of Trifluoromethyl  $\alpha$ -Fluorinated gem-Diols to Nitroolefins. *Adv. Synth. Catal.* 2013, 355, 857-863.
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