

Shanghai Institute of Organic Chemistry  
345 Lingling Road  
Shanghai 200032, China  
Tel: 86-21-54925130  
E-mail: madw@mail.sioc.ac.cn

## Dawei Ma, Ph.D.

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### Research Interests

- ✧ Total synthesis and SAR studies of complex natural products with interesting biological activities.
- ✧ Design, synthesis, and biological evaluation of selective modulators targeted to GPCRs, kinases, proteases and apoptosis pathway.
- ✧ Development of new synthetic methodologies and their applications to the synthesis of biologically and pharmaceutically important molecules.

### Professional Experience

- 2000–present: Director, State Key Laboratory of Bioorganic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences**
- 1995–present: Professor, State Key Laboratory of Bioorganic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, P. R. China**
- 1990–1994: Postdoctoral fellow, University of Pittsburgh and Mayo Clinic, U.S.A.**

### Education

- 1984-1989: Ph.D., Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences**
- ✧ Major: Organic Chemistry
  - ✧ Director: Prof. Xiyan Lu
- 1980-1984: B.S., Shandong University, Jinan, China**
- ✧ Major: Chemistry

### Honors and Awards

- ✧ Outstanding Young Scholar, Qiushi Science and Technology, HongKong (1998)
- ✧ Top Ten Outstanding Youth of Shanghai City (2001)
- ✧ National Natural Science Award, Second Class (2007)

### Professional Associations

- ✧ Editorial advisory board member of "*Journal of Medicinal Chemistry*", "*Journal of Organic Chemistry*", "*Tetrahedron/Tetrahedron Letters*" and "*ChemMedChem*".

### Selected Publications

1. Qian Cai, Benli Zou, Dawei Ma\*, Mild Ullmann-type biaryl ether formation reaction via combination of *ortho*-substituent and ligand effects, *Angew. Chem. Int. Ed.* **2006**, *45*, 1276.
2. Dawei Ma\*, Yongwen Jiang, Fangping, Chen, Li-kun, Gong, Ke Ding, Yong Xu, Renxiao Wang, Aihua Ge, Jin Ren\*, Jingya Li, Jia Li and Qizhuang Ye, Selective inhibition of matrix metalloproteinase isozymes and *in vivo* protection against emphysema by substituted  $\gamma$ -keto carboxylic acids. *J. Med. Chem.* **2006**, *49*, 456.

3. Shouyun Yu, Xianhua Pan and Dawei Ma\*, Total syntheses of halipeptins A-D, potent anti-inflammatory cyclic depsipeptides, *Chem. Eur. J.* **2006**, *12*, 6572.
4. Qian Cai, Gang He and Dawei Ma\*, Mild and Non-racemization conditions for Ullmann-type diaryl ether formation between aryl halides and tyrosine derivatives, *J. Org. Chem.* **2006**, *71*, 5268.
5. Dawei Ma\*, Bin Zou, Guorong Cai, Xiaoyi Hu and Jun O. Liu, Total synthesis of cyclodepsipeptide apratoxin A and its analogues and assessment of their biological activity, *Chem. Eur. J.* **2006**, *12*, 7615.
6. Shanghai Yu, Xiaotao Pu, Tiejun Cheng, Renxiao Wang and Dawei Ma\*, Total Synthesis of Clavepictines A and B and Pictamine, *Org. Lett.* **2006**, *8*, 3179.
7. Xiaotao Pu and Dawei Ma\*, Facile entry to decahydroquinoline alkaloids. Total synthesis of lepadins A-E and H, *J. Org. Chem.* **2006**, *71*, 6562.
8. Xiaoan Xie, Yu Chen, Dawei Ma, Enantioselective arylation of 2-methylacetoacetates catalyzed by Cu/*trans*-4-hydroxy-L-proline at low reaction temperature, *J. Am. Chem. Soc.* **2006**, *128*, 16050.
9. Dawei Ma,\* Shanghai Yu, Ben Li, Li Chen, Renhai Chen, Kunqian Yu, Linqi Zhang, Zhiwei Chen, Dafang Zhong, Zheng Gong, Renxiao Wang, Hualiang Jiang and Gang Pei, Synthesis and biological evaluation of 1,3,3,4-tetrasubstituted pyrrolidine CCR5 receptor antagonists. Discovery of a potent and orally bioavailable anti-HIV agent. *ChemMedChem.* **2007**, *2*, 187-193.
10. Benli Zou, Qiliang Yuan, Dawei Ma\*, 1,2-Disubstituted benzimidazoles by a Cu-catalyzed cascade aryl amination-condensation process, *Angew. Chem. Int. Ed.* **2007**, *46*, 2598.
11. Gang He, Jing Wang, Dawei Ma\*, Highly convergent route to cyclopeptide alkaloids. Total synthesis of ziziphine N, *Org. Lett.* **2007**, *9*, 1367.
12. Zhankui Sun, Shouyun Yu, Zuoding Ding and Dawei Ma\*, Enantioselective addition of activated terminal alkynes to 1-acylpyridinium salts catalyzed by Cu-bis(oxazoline) complexes, *J. Am. Chem. Soc.* **2007**, *129*, 9300.
13. Yu Chen, Xiaoan Xie and Dawei Ma\*, Facile access to polysubstituted indoles via a cascade Cu-catalyzed arylation-condensation process, *J. Org. Chem.* **2007**, *72*, 9329.
14. Benli Zou, Qiliang Yuan, Dawei Ma\*, Cascade coupling/cyclization process to N-substituted 1,3-dihydrobenzimidazol-2-ones, *Org. Lett.* **2007**, *9*, 4291.
15. Shaolin Zhu, Shouyun Yu, Dawei Ma\*, Highly efficient catalytic system for enantioselective Michael addition of aldehydes to nitroalkenes in water, *Angew. Chem. Int. Ed.* **2008**, *47*, 545.
16. Yu Chen, Yuji Wang, Zheming Sun, Dawei Ma\*, Elaboration of 2-(trifluoromethyl)-indoles via a cascade coupling-condensation-deacylation process, *Org. Lett.* **2008**, *10*, 625.
17. Weiqing Xie, Derong Ding, Weiwei Zi, Guangyu Li, Dawei Ma, Total synthesis and Structure of Papuamide B, a potent anti-HIV marine cyclodepsipeptide, *Angew. Chem. Int. Ed.* **2008**, *47*, 2844.
18. Li Tan, Dawei Ma, Total synthesis of salinamide A, a potent anti-inflammatory bicyclic depsipeptide, *Angew. Chem. Int. Ed.* **2008**, *47*, 3614.
19. Dawei Ma, Cai Qian, Copper/amino acid catalyzed cross-couplings of aryl and vinyl halides with nucleophiles, *Acc. Chem. Res.* **2008**, *41*, 1450.
20. Jing Wang, Anqi Ma, Dawei Ma, Organocatalytic Michael addition of aldehydes to  $\gamma$ -keto- $\alpha,\beta$ -unsaturated esters. An efficient entry to versatile chiral building blocks. *Org. Lett.* **2008**, *10*, 5425.