

Shanghai Institute of Organic Chemistry  
345 Lingling Road  
Shanghai 200032, China  
Tel: 86-21-54925115  
E-mail: yikangwu@mail.sioc.ac.cn

## Yikang Wu, Ph.D.

### Research Interests

- ◇ Total synthesis of biologically active natural products and analogues
- ◇ Synthetic methodologies related to total synthesis
- ◇ Organic peroxides chemistry
- ◇ Development of drug leads

### Professional Experience

**2000–present: Professor, State Key Laboratory of Bioorganic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, P. R. China**

**1995–2000: Associate Professor, State Key Laboratory of Bioorganic Chemistry, Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, P. R. China**

### Education

**Ph.D. 1991: Göteborg University (Göteborg, Sweden)**

- ◇ Department: Organic Chemistry

**MS 1985 Shanghai Institute of Materia Medica, CAS (Shanghai, China)**

- ◇ Department: Synthetic Chemistry

**BS 1982 Nanjing College of Pharmacy (Nanjing, China)**

- ◇ Department: Medicinal Chemistry

### Selected Recent Publications

- (1) Wu, Y.-K.\*; Gao, Jian "Total Synthesis of (+)-Brefeldin A", *Org. Lett.* **2008**, 10(8), 1533-1536.
- (2) Zhen, Z.-B.; Gao, J.; Wu, Y.-K.\*, "A Chiron Approach to the Total Synthesis of (+)-Aculeatin D", *J. Org. Chem.* **2008**, 73(18), 7310-7316
- (3) Zhang, B.; Nikolovska-Coleska, Z.; Zhang, Y.; Bai, L.; Qiu, S.; Yang, C.-Y.; Sun, H.; Wang, S.\*; Wu, Y.-K.\*, "Design, Synthesis and Evaluation of Tricyclic, Conformationally Constrained Smac Mimetics As Antagonists of IAP Proteins" , *J. Med. Chem.* **2008**, 51(23), 7352-7355.
- (4) Jian, Y.-J.; Tang, C.-J.; Wu, Y.-K.\* , "Enantioselective Total synthesis of Phomallenic Acid C", *J. Org. Chem.* **2007**, 72(13), 4851-4855.
- (5) Wu, Y.-K.\*; Sun, Y.-P. "A Synthesis of Nonactin and the Proposed Structure of Trilactone", *Org. Lett.* **2006**, 8(13), 2831-2834.

- (6) Wu, Y.-K.\*; Yang, Y.-Q. "Synthesis of Antimycin A<sub>3b</sub>", *J. Org. Chem.* **2006**, *71(11)*, 4296-4301.
- (7) Wu, Y.-K.\*; Sun, Y.-P. "An expeditious enantioselective total synthesis of valilactone", *J. Org. Chem.* **2006**, *71(15)*, 5748-5751.
- (8) Wu, Y.-K.\*; Sun, Y.-P. "Novel Chemoselective Tosylation of the Alcoholic Hydroxyl Group of Syn-alpha,beta-Disubstituted beta-Hydroxy Carboxylic Acids ", *Chem. Comm.* **2005**, (14), 1906-1908.
- (9) Jin, H.-X.; Liu, H.-H.; Zhang, Q.; Wu, Y.-K.\* "On the susceptibility of organic peroxy bonds to hydride reduction", *J. Org. Chem.* **2005**, *70(11)*, 4240-4247.
- (10) Sun, Y.-P.; Wu, Y.-K.\* "An Expeditious Synthesis of Nocardiolactone" *Synlett* **2005**, (9), 1477-1479.
- (11) Jin, H.-X.; Liu, H.-H.; Zhang, Q.; Wu, Y.-K.\* "On the susceptibility of organic peroxy bonds to hydride reduction", *J. Org. Chem.* **2005**, *70(11)*, 4240-4247.
- (12) Wu, Y.-K. \*; Shen, X.; Yang, Y.-Q.; Hu, Q.; Huang, J.-H. "Enantioselective Total Synthesis of (+)-Brefeldin A and 7-*epi*-Brefeldin A ", *J. Org. Chem.* **2004**, *69(11)*, 3857-3865.
- (13) Wu, Y.-K.; Sun, Y.-P.; Yang, Y.-Q.; Hu, Q.; Zhang, Q. "Removal of Thiazolidinethione Auxiliaries with Benzyl Alcohol Mediated by DMAP ", *J. Org. Chem.* **2004**, *69(18)*, 6141-6144.
- (14) Wu, Y.-K.\*; Yang, Y.-Q.; Hu, Q. "A Facile Access to Chiral 4-Isopropyl-, 4-Benzyl-, and 4-Phenyl-oxazolidine-2-thione ", *J. Org. Chem.* **2004**, *69(11)*, 3990-3992.
- (15) Wu, Y.-K.\*; Li, L.; Sun, Y.-P. "Synthesis of a 5-oxo-2-tetrahydrofuranyl derivative of an Evans auxiliary via a novel reaction induced by nucleophiles. ", *Synlett* **2004**, (1), 125-127.