

Jingyue Yang

Professionals

Professor

School of Environmental and Chemical Engineering
Yanshan University

November 2017 – now

Sr. Research Associate

Department of Radiology, UT Southwestern Medical Center
Professor Xiankai Sun

December 2016 – September 2017

Adjunct Faculty

School of Mathematics, Science, & Health Professions
Richland College, Dallas, TX

August 2015 – May 2016

Postdoctoral Fellow

Department of Chemistry & Biochemistry, University of Texas at Austin
Professor Stephen. F. Martin

June 2011 – December 2013

Education

- **Ph.D., Organic Chemistry**

April 2011

Florida State University (FSU), Tallahassee, FL

Dissertation: "Anionic rearrangement of 2-benzyloxy pyridines and a synthetic approach to aldingenin B."

Research Advisor: Professor Gregory B. Dudley

- **B.S., Pharmaceutical Sciences**

June 2005

Tianjin University, Tianjin, China

Thesis: "Methodology to prepare N-heterocycles from N, O-heterocycles."

Research Advisor: Professor John Reiner & Professor Kang Zhao

Teaching Experience

Professor

Course: Fine Organic Synthesis and Technology (Bilingual)
Organic chemistry

Contemporary Drug Development and Synthesis (Graduate level, English)

Yanshan University

November 2017 – now

Adjunct Faculty

Course: CHEM 1045 – Introductory Chemistry I (including labs)
Richland College, Dallas, TX

August 2015 – May 2016

Teaching Assistant

Courses: General chemistry, Organic chemistry I & II, recitation & lab, organic survey lab
Department of Chemistry & Biochemistry, Florida State University

Fall 2005 – Spring 2011

Research Experience

Professor

School of Environmental and Chemical Engineering
Yanshan University

November 2017 – now

- Methodology Development in Organic Synthesis
- Molecular Innovations toward Targeting Cancer cells

Sr. Research Associate

Department of Radiology, UT Southwestern Medical Center
Professor Xiankai Sun

December 2016 – September 2017

- Design and Synthesis of Radioactive tracers for tau imaging
- Theranostic design in prostate cancer

Postdoctoral Fellow

Department of Chemistry & Biochemistry, University of Texas at Austin
Professor Stephen. F. Martin

June 2011 – December 2013

- Synthesis of the aglycon of IB-00208, which has been shown to exhibit potent cytotoxic activity (MIC = 1 nM) against several tumor cell lines.

Graduate Research

Department of Chemistry & Biochemistry, Florida State University
Professor Gregory B. Dudley

January 2006 – April 2011

- Developed a new methodology for the conjugate addition of organocopper reagents to α , β -unsaturated esters
- Designed and developed a new anionic rearrangement of 2-bezyloxypyridines.
- Achieved the synthesis of the tricyclic core structure of a brominated marine natural product---aldingenin B

Award and Fellowship

- CPRIT (Cancer Prevention & Research Institute of Texas) cancer research traineeship (University of Texas at Austin) 2012 – 2013
- National Scholarship (Tianjin University) 2002 – 2003

Publications

- (1) Wu, Y.; Guan, B.; **Yang, J.**; Xiong, Y.; Hsien, J.; Hao, G.; Sun, X. "Design and Synthesis of Perfectly Paired Small-Molecule Theranostic Agents for Prostate Cancer." Ready for submission.
- (2) **Yang, J.**; Knueppel, D.; Cheng, B.; Mans, D.M.; Martin, S.F. "Approaches to polycyclic 1,4-dioxygenated xanthenes. Application to total synthesis of the aglycone of IB-00208." *Org. Lett.* **2015**, *17*, 114-117.
- (3) Knueppel, D.; **Yang, J.**; Cheng, B., Mans, D.M.; Martin, S.F. "Total synthesis of the aglycone of IB-00208." *Tetrahedron.* **2015**, *71*, 5741-5757.
- (4) **Yang, J.**; Wangweerawong, A.; Dudley, G.B. "[1,2]-Wittig rearrangement of aromatic heterocycles." *Heterocycles.* **2012**, *85*, 1603-1606.
- (5) **Yang, J.**; Tummatorn, J.; Slegeris, R.; Tlais, S. F.; Dudley, G. B. "Synthesis of the tricyclic core of aldingenin B by oxidative cyclo-ketalization of an alkyne-diol." *Org. Lett.* **2011**,

13, 2065-2067.

- (6) **Yang, J.;** Dudley, G. B. "Pyridine-directed organolithium addition to an enol ether." *Adv. Synth. Catal.* **2010**, 352, 3438-3422.
- (7) **Yang, J.;** Dudley, G. B. "[1,2]-Anionic Rearrangement of 2-Benzyloxypyridine and Related Pyridyl Ethers." *J. Org. Chem.* **2009**, 74, 7998-8000.
- (8) **Yang, J.;** Dudley, G. B. "Conjugate addition of organocopper reagents in dichloromethane to α , β -unsaturated esters." *Tetrahedron Lett.* **2007**, 48, 7887-7889.

Presentations

- (1) Synthetic effort toward the total synthesis of IB-00208. **Yang, J.;** Kneuppel, D.; Cheng, B.; Martin, S. F. Presented at the 245th ACS National Meeting, New Orleans, LA, United States, April 7th-11th, 2013.
- (2) Synthetic approach to aldingenin B using selenium-mediated ketalization and nucleophilic addition-fragmentation reactions. Slegeris, R.; **Yang, J.;** Dudley, G. B. Presented at the 244th ACS National Meeting & Exposition, Philadelphia, PA, United States, August 19th-23th, 2012.
- (3) Synthetic efforts toward the tricyclic core of roseophilin. **Yang, J.;** Katukojyala, S.; Dudley, G. B. Presented at the 235th ACS National Meeting, New Orleans, LA, United States, April 6th-10th, 2008.
- (4) Development of a new method for glycosylation. **Yang, J.;** Dudley, G. B. Presented at the 235th ACS National Meeting, New Orleans, LA, United States, April 6th-10th, 2008.
- (5) Synthetic efforts toward the tricyclic core of roseophilin. **Yang, J.;** Dudley, G. B. Presented at the 58th Southeast Regional Meeting of the American Chemical Society, Augusta, GA, United States, November 1st-4th, 2006.