

## Curriculum Vitae

### Peilan Zhang

Department of Medicinal Chemistry

College of Pharmacy

University of Florida

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### EDUCATION

Aug. 2014 - Present                    **University of Florida**, College of Pharmacy, Department of Medicinal Chemistry  
Graduate student in Medicinal Chemistry

Sept. 2010 - Jun. 2014                **Sichuan University**, West China School of Pharmacy  
B.S. in Pharmacy

### RESEARCH INTEREST

My researches involve the discovery and development of bioactive proteins for addressing urgent medical needs, particularly cancer, cardiovascular, and infectious diseases. In addition to the characterization and engineering of bioactive proteins, I study their associated mechanisms which offer numerous opportunities to uncover novel biological processes and to develop new therapeutic leads.

### RESEARCH EXPERIENCE

Aug. 2014 - Present                    Research Assistant  
Medicinal Chemistry, University of Florida  
Advisor: Dr. Yousong Ding  
Research on bioactive proteins, including function exploration, mechanism identification, rational engineering, etc.

Sept. 2011 - Jun. 2014                Undergraduate Research Volunteer  
State Key Laboratory of Biotherapy, China  
Advisor: Dr. Maling Gou  
Research on nanomaterial synthesis and tumor-targeted drug delivery

### PUBLICATIONS

1. **Peilan Zhang**, Kunhua Li, Guang Yang, Changqing Xia, Jane E. Polston, Gengnan Li, Shiwu Li, Zhao Lin, Li-jun Yang, Steven D. Bruner, and Yousong Ding, Cytotoxic protein from the mushroom *Coprinus comatus* possesses a unique mode for glycan binding and specificity, *PNAS*. 2017; 114(34): 8980-8985.
2. Ran Zuo, Aaron T. Garrison, Akash Basak, **Peilan Zhang**, Robert W. Huigens, Yousong Ding, In vitro antifungal and antibiofilm activities of halogenated quinoline analogues against *Candida albicans* and *Cryptococcus neoformans*, *Int J Antimicrob*. 2016; 48(2): 208-11.
3. Xun Jin, **Peilan Zhang**, Li Luo, Hao Cheng, Yunzu Li, Ting Du, Bingwen Zou, Maling Gou, Efficient

Intravesical Therapy of Bladder Cancer with Cationic Doxorubicin Nanoassemblies, *Int J Nanomedicine*. 2016; 11: 4535–4544.

4. Xun Jin, Bingwen Zou, Li Luo, Chuanhong Zhong, **Peilan Zhang**, Hao Cheng, Yanfang Guo, Maling Gou, Co-delivery of Thioridazine and Doxorubicin Using Nanoparticles for Effective Breast Cancer Therapy, *Int J Nanomedicine*. 2016; 11: 4545–4552.

5. Xie C, Zhang Y, Tran TDN, Wang H, Li S, George EV, Haoyang Zhuang, **Peilan Zhang**, Avi Kandel, Yimu Lai, Dongqi Tang, Westley H. Reeves, Henrique Cheng, Yousong Ding, Li-Jun Yang, Irisin Controls Growth, Intracellular Ca<sup>2+</sup> Signals, and Mitochondrial Thermogenesis in Cardiomyoblasts. *PLoS One*. 2015; 10(8): e0136816.

## RESEARCH PRESENTATIONS

1. **Peilan Zhang**, Kunhua Li, Guang Yang, Changqing Xia, Jane E. Polston, Gengnan Li, Shiwu Li, Zhao Lin, Li-jun Yang, Steven D. Bruner, and Yousong Ding, A cytotoxic protein from the mushroom *Coprinus comatus* possesses a unique glycan binding fold and specificity, UF Drug Discovery Symposium, Gainesville, FL, Sept 21 to Sept 22, 2017. (Oral presentation)

2. **Peilan Zhang**, Kunhua Li, Guang Yang, Changqing Xia, Jane E. Polston, Gengnan Li, Shiwu Li, Zhao Lin, Li-jun Yang, Steven D. Bruner, and Yousong Ding, A cytotoxic protein from the mushroom *Coprinus comatus* possesses a unique glycan binding fold and specificity, American Chemical Society - Florida Section, Tampa, FL, May 4 to May 6, 2017. (Poster)

3. **Peilan Zhang**, Brian MacTavish, Guang Yang, Steven D. Bruner and Yousong Ding, Biochemical and structural characterization of a key biosynthetic enzyme of branched chain amino acids from cyanobacteria, COP 30th Annual Research Showcase, Gainesville, FL, Feb 17, 2017. (Poster)

4. **Peilan Zhang**, Brian MacTavish, Steven D. Bruner and Yousong Ding, Dihydroxy-acid dehydratase, a novel target for developing antibiotics, COP 29th Annual Research Showcase, Gainesville, FL, Jan 22, 2016. (Poster)

5. **Peilan Zhang**, Brian MacTavish, Steven D. Bruner and Yousong Ding, Dihydroxy-acid dehydratase, a novel target for developing antibiotics, UF Drug Discovery Symposium, Gainesville, FL, April 29, 2016. (Poster)

## PROFESSIONAL MEMBERSHIPS

2017 - American Chemical Society (ACS)

2017 - American Heart Association (AHA)

## AWARDS

Sept. 2017 Finalist of oral competition, UF Drug Discovery Symposium

Nov. 2012 Scholarship, Sichuan University

Mar. 2012 Scholarship, CSPC Pharmaceutical Group

Nov. 2011 Outstanding Student Award, Sichuan University

Nov. 2011 Scholarship, Sichuan University