

Jianfeng Cai

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Assistant Professor
Department of Chemistry
University of South Florida
Tampa, FL 33620
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EDUCATION

- **Postdoctoral Associate**, Bioorganic Chemistry, **Yale University**, **2007-2009**
Advisor: **Professor Andrew D. Hamilton**
- **PhD**, Bioorganic Chemistry, **Washington University in St. Louis**, **2006**
Advisor: **Professor John Stephen Taylor**
Thesis Title: *Design and Synthesis of Nucleic Acid Templated and Targeted Drugs and Probes*
- **MS**, **Nanjing University**, **China**, **2000**
- **BS**, **Nanjing University**, **China**, **1997**

POSITIONS AND EMPLOYMENT

- 2007-2009 Postdoctoral Associate, Yale University, New Haven, CT
- 2009-present Assistant Professor, University of South Florida, Tampa, FL
- 2009-present Member, Drug Discovery Program, Moffitt Cancer Center, Tampa, FL

PROFESSIONAL AFFILIATIONS

Member, American Chemical Society (Organic Chemistry and Medicinal Chemistry Division)
Member, American Peptide Society

RESEARCH

PUBLICATIONS

Journal articles

Work from Graduate and Postdoc.

1. **Jianfeng Cai**, Yun Lu*, Gi Xue and Wei Zhang. The reinforcement of Al filled Polyurethane system. *Mod. Plastics Proc. Appl.*, **1999**, 11 (6), 10.
2. Yun Lu*, **Jianfeng Cai** and Gi Xue. Molecular design of a soft interphase and its role in the reinforcement and toughening of aluminum powder-filled polyurethane. *J. Adhes. Sci. Technol.*, **2001**, 15, 71-82.
3. **Jianfeng Cai**, Xiaoxu Li, Xuan Yue, and John Stephen Taylor*. Nucleic acid-triggered fluorescent probe activation by the Staudinger reaction. *J. Am. Chem. Soc.*, **2004**, 126(50), 16324-16325.
4. **Jianfeng Cai**, Xiaoxu Li, and John Stephen Taylor*. Improved nucleic acid triggered probe activation through the use of a 5-thiomethyluracil peptide nucleic acid building block. *Org. Lett.*, **2005**, 7(5), 751-754.
5. **Jianfeng Cai**, Erik M. Shapiro*, and Andrew D. Hamilton*. Self-assembled DNA quadruplex conjugated to MRI contrast agent. *Bioconjugate Chem.*, **2009**, 20(2), 205-208.

6. **Jianfeng Cai**, Brooke Rosenzweig, and Andrew D. Hamilton*. Inhibition of Chymotrypsin by a self-assembled DNA quadruplex functionalized with cyclic peptide binding fragments. *Chem. Eur. J.*, **2009**, *15*(2), 328-332.
7. **Jianfeng Cai**, Dariusz Niedzwiedzki, Harry A. Frank*, and Andrew D. Hamilton*. Ultrafast energy transfer within pyropheophorbide-a tethered to self-assembling DNA Quadruplex. *Chem. Commun.* **2010**, *46*, 544 - 546.
8. Yao Cheng, Lun K. Tsou, **Jianfeng Cai**, Toshihiro Aya, Ginger E. Dutschman, Elizabeth A. Gullen, Susan P. Grill, Annie Pei-Chun Chen, Brett D. Lindenbach, Andrew D. Hamilton, Yung-chi Cheng*. A novel class of meso-tetrakis-porphyrin derivatives exhibit potent activities against hepatitis C virus genotype 1b replicons *in vitro*. *Antimicrob. Agents Chemother.* **2010**, *54*(1), 197-206.
9. Sourav Saha, **Jianfeng Cai**, Daniel Eiler and Andrew D. Hamilton*. Programing the formation of DNA and PNA quadruplexes by pi-pi stacking interactions. *Chem. Commun.*, **2010**, *46*, 1685-1687.
10. Rongsheng E. Wang, Raj K. Pandita, **Jianfeng Cai**, Clayton R. Hunt, John-Stephen Taylor*. Inhibition of Heat Shock Transcription Factor Binding by a Linear Polyamide Binding in an Unusual 1:1 Mode. *ChemBioChem*, **2012**, *13*(1), 97-104.

Work based on Independent Career at University of South Florida:

11. Yaogang Hu, Xiaolong Li, Said M. Sebti, Jiandong Chen, and **Jianfeng Cai***. Design and Synthesis of AApeptides: A New Class of Peptide Mimics. *Bioorg. Med. Chem. Lett.*, **2011**, *21*, 1469-1471.
12. Youhong Niu, Yaogang Hu, Xiaolong Li, Jiandong Chen, and **Jianfeng Cai***. Gamma-AApeptides: Design, Synthesis and Evaluation. *New J. Chem.* **2011**, *35*, 542-545.
13. Youhong Niu, Alisha “Jonesy” Jones, Haifan Wu, Gabriele Varani,* and **Jianfeng Cai***. γ -AApeptides bind to RNA by mimicking RNA-binding proteins. *Org. Biomol. Chem.*, **2011**, *9* (19), 6604 - 6609.
14. Shruti Padhee, Yaogang Hu, Youhong Niu, Ge Bai, Haifan Wu, Frankie Costanza, Leigh West, Lacey Harrington, Lindsey N. Shaw, Chuanhai Cao, and **Jianfeng Cai***. Non-Hemolytic α -AApeptides as Antimicrobial Peptidomimetics. *Chem. Commun.* **2011**, *47* (34), 9729 - 9731
15. Rongsheng E. Wang, Youhong Niu, Haifan Wu, Mohamad Nassir Amin, and **Jianfeng Cai***. Development of NGR peptide-based agents for tumor imaging. *Am. J. Nucl. Med. Mol. Imaging* **2011**, *1*(1), 36-46.
16. Rongsheng E. Wang,* Haifan Wu, Youhong Niu, and **Jianfeng Cai***. Improving the Stability of Aptamers by Chemical Modification. *Curr. Med. Chem.* **2011**, *18*, 4126-4138.
17. Rongsheng E. Wang, Yin Zhang, **Jianfeng Cai**, Weibo Cai, Ting Gao*. Aptamer-Based Fluorescent Biosensors. *Curr. Med. Chem.* **2011**, *18*, 4175-4184.
18. Youhong Niu, Shruti Padhee, Haifan Wu, Ge Bai, Lacey Harrington, Whitney N. Burda, Lindsey N. Shaw, Chuanhai Cao, and **Jianfeng Cai***. Identification of γ -AApeptides with potent and broad-spectrum antimicrobial activity. *Chem. Commun.* **2011**, *47* (44), 12197 - 12199.
19. Rongsheng E. Wang, Youhong Niu, Haifan Wu, Yaogang Hu, **Jianfeng Cai***. Development of NGR-Based Anti-Cancer Agents for Targeted Therapeutics and Imaging. *Anticancer Agents Med. Chem.* **2012**, *12* (1), 76-86.
20. Rongsheng E. Wang,* Frankie Costanza, Youhong Niu, Haifan Wu, Yaogang Hu, Whitney Hang, Yiqun Sun, **Jianfeng Cai***. Development of self-immolative dendrimers for drug delivery and sensing. *J. Control. Release.* **2012**, *159*, 154-163.
21. Ge Bai, Shruti Padhee, Youhong Niu, Rongsheng E. Wang, Robert Buzzeo, Chuanhai Cao*, and **Jianfeng Cai***. Cellular uptake of an α -AApeptide. *Org. Biomol. Chem.* **2012**, *10* (6), 1149 - 1153.
22. Youhong Niu, Ge Bai, Haifan Wu, Rongsheng E. Wang, Qiao Qiao, Shruti Padhee, Robert Buzzeo, Chuanhai Cao*, and **Jianfeng Cai***. Cellular translocation of a γ -AApeptide mimetic of Tat peptide. *Mol. Pharmaceutics.* **2012**, *9*(5), 1529–1534
23. Chuanhai Cao*, David A. Loewenstein, Xiaoyang Lin, Chi Zhang, Li Wang, Ranjan Duara, Yougui Wu, Alessandra Giannini, Ge Bai, **Jianfeng Cai**, Maria Greig, Elizabeth Schofield, Raj Ashok, Brent

- Small, Huntington Potter and Gary W. Arendash*. High Blood Caffeine Levels in MCI Linked to Lack of Progression to Dementia. *J. Alz. Dis.* **2012**, *30*, 559-572.
24. Youhong Niu, Shruti Padhee, Haifan Wu, Ge Bai, Qiao Qiao, Yaogang Hu, Lacey Harrington, Whitney N. Burda, Lindsey N. Shaw, Chuanhai Cao, and **Jianfeng Cai***. Lipo- γ -AApeptides as a new class of potent and broad-spectrum antimicrobial agents. *J. Med. Chem.* **2012**, *55*(8), 4003–4009.
 25. Wen-Yang Gao , Youhong Niu , Yao Chen , Lukasz Wojtas , **Jianfeng Cai** , Yu-Sheng Chen and Shengqian Ma*. Porous Metal-Organic Framework Based on a Macrocyclic Tetracarboxylate Ligand Exhibiting Selective CO₂ Uptake. *CrystEngComm*, **2012**, *14*, 6115-6117.
 26. Zhongqiu Luo, Jialin Li, Neel R. Nabar, Xiaoyang Lin, Ge Bai, **Jianfeng Cai**, Shu-Feng Zhou, Chuanhai Cao*, Jinhuan Wang*. Efficacy of a Therapeutic Vaccine Using Mutated β -amyloid Sensitized Dendritic Cells in Alzheimer’s Mice. *J. Neuroimmune Pharmacol.*, **2012**, *7*, 640-645.
 27. Haifan Wu, Youhong Niu, Shruti Padhee, Rongsheng E Wang, Yaqiong Li, Qiao Qiao, Ge Bai, Chuanhai Cao, and **Jianfeng Cai***. Design and synthesis of unprecedented cyclic γ -AApeptides for antimicrobial development. *Chem. Sci.*, **2012**, *3*, 2570-2575.
 28. Yunan Yang, Youhong Niu, Hao Hong, Haifan Wu, Yin Zhang, Jonathan W. Engle, Todd E. Barnhart, **Jianfeng Cai***, and Weibo Cai*. Radiolabeled γ -AApeptides: A New Class of Tracers for Positron Emission Tomography. *Chem. Commun.* **2012**, *48*, 7850-7852.
 29. Haifan Wu, Mohamad Nassir Amin, Youhong Niu, Qiao Qiao, Nassier Harfouch, Abdelfattah Nimer, **Jianfeng Cai***. Solid Phase Synthesis of γ -AApeptides Using a Novel Submonomeric Approach. *Org. Lett.* **2012**, *14*, 3446-3449.
 30. Youhong Niu, Rongsheng E. Wang*, Haifan Wu, **Jianfeng Cai***. Recent development of small antimicrobial peptidomimetics. *Future Med. Chem.* **2012**, accepted.
 31. Yaogang Hu, Mohamad Nassir Amin, Shruti Padhee, Rongsheng E. Wang, Qiao Qiao, Ge Bai, Yaqiong Li, Archana Mathew, Chuanhai Cao, and **Jianfeng Cai***. Lipidated Peptidomimetics with Improved Antimicrobial Activity. *ACS Med. Chem. Lett.* **2012**, *55*, 4003-4009.
 32. Youhong Niu, Haifan Wu, Rongfu Huang, Qiao Qiao, Frankie Costanza, Xi-Sen Wang, Yaogang Hu, Mohamad Nassir Amin, Anh-My Nguyen, James Zhang, Edward Haller, Shengqian Ma, Xiao Li, and **Jianfeng Cai***. Nanorods formed from a new class of peptidomimetics. *Macromolecules*, **2012**, *45*, 7350–7355.
 33. Neel R. Nabar, Fang Yuan, Xiaoyang Lin, Li Wang, Ge Bai, Jonathan Mayl, Yaqiong Li, Shu-Feng Zhou, Jinhuan Wang, **Jianfeng Cai**, Chuanhai Cao*. Cell Therapy: A Safe and Efficacious Therapeutic Treatment for Alzheimer’s Disease in APP+PS1 Mice. *PLoS One*, **2012**, *7*, 12, e49468.
 34. Long Zhang, Qing Ji, Xuan Liu, Xingzhu Chen, Zhaohua Chen, Yanyan Qiu, Jian Sun, **Jianfeng Cai**, Huirong Zhu, and Qi Li. Norcantharidin inhibits tumor angiogenesis via blocking VEGFR2/MEK/ERK signaling pathways. *Cancer Sci.*, **2013**, *104*, 604-610.
 35. Youhong Niu, Haifan Wu, Yaqiong Li, Yaogang Hu, Shruti Padhee, Qi Li, Chuanhai Cao and **Jianfeng Cai***. AApeptides as a new class of antimicrobial agents. *Org. Biomol. Chem.* **2013**, *11*, 4283-4290.
 36. Haifan Wu, Peng Teng, Youhong Niu, Qi Li, **Jianfeng Cai***. Polymyxin derivatives: a patent evaluation (WO2012168820). *Expert Opin. Ther. Pat.*, **2013**, 1075-81.
 37. Yaqiong Li, Haifan Wu, Youhong Niu, Yaogang Hu, Qi Li, Chuanhai Cao, **Jianfeng Cai***. Development of RNA Aptamer-Based Therapeutic Agents. *Curr. Med. Chem.*, **2013**, *20*, 3655-3663.
 38. Qing Ji, Xuan Liu, Xiaoling Fu, Long Zhang, Hua Sui, Lihong Zhou, Jian Sun, **Jianfeng Cai**, Jianmin Qin, Jianlin Ren*, Qi Li*. Resveratrol Inhibits Invasion and Metastasis of Colorectal Cancer Cells via MALAT1 Mediated Wnt/ β -Catenin Signal Pathway. *PLoS One*, **2013**, *8*, 11, e78700.
 39. Rongsheng E. Wang,* Yin Zhang, Ling Tian, Weibo Cai* and **Jianfeng Cai**. Antibody-Based Imaging of HER-2: Moving into the Clinic. *Curr. Mol. Med.*, **2013**, *13*, 1523-1537.
 40. Frankie Costanza, Shruti Padhee, Haifan Wu, Yan Wang, Jesse Revenis, Chuanhai Cao, Qi Li* and **Jianfeng Cai***. Investigation of antimicrobial PEG-poly(amino acid)s. *RSC Advances*, **2014**, *4*, 2089-2095.

41. Haifan Wu, Yaqiong Li, Ge Bai, Youhong Niu, Qiao Qiao, Jeremiah Tipton, Chuanhai Cao,* **Jianfeng Cai**.* γ -AApeptide-based small-molecule ligands that inhibit A β aggregation. *Chem. Commun.*, **2014**, 2014 Emerging Investigators Issue. DOI: 10.1039/C3CC46685J
42. Yaqiong Li, Christina Smith, Haifan Wu, Shruti Padhee, Namitha Manoj, Joseph Cardiello, Qiao Qiao, Chuanhai Cao, Hang Yin,* and **Jianfeng Cai**.* Lipidated cyclic γ -AApeptides display both antimicrobial and anti-inflammatory activity. *ACS Chem. Biol.*, **2014**, 9, 211-217.
43. Haifan Wu, Peng Teng and **Jianfeng Cai**.* Quick access to multiple classes of peptidomimetics from common γ -AApeptide building blocks. *Eur. J. Org.*, **2014**, 1760-1765.
44. Shruti Padhee, Christina Smith, Haifan Wu, Yaqiong Li, Namitha Manoj, Qiao Qiao, Zoya Khan, Chuanhai Cao, Hang Yin,* and **Jianfeng Cai**.* The development of antimicrobial γ -AApeptides that suppress pro-inflammatory immune responses. *ChemBioChem*, **2014**, 688-694.
45. Wen-Yang Gao, Yao Chen, Youhong Niu, Kia Williams, Lindsay Cash, Pastor Perez, Lukasz Wojtas , **Jianfeng Cai**, Yu-Sheng Chen and Shengqian Ma*. Crystal engineering of an nbo topology MOF for chemical fixation of CO₂ under ambient conditions. *Angew Chem. Int. Ed.*, **2014**, 53, 2615-2619.
46. Yan Wang, Daqian Song, Frankie Costanza, Huirong Zhu, Zhongze Fan,* **Jianfeng Cai*** and Qi Li.* Targeted Delivery of Tanshinone IIA-conjugated mPEG-PLGA-PLL-cRGD Nanoparticles to Hepatocellular Carcinoma. *J. Biomed. Nanotechnol.* **2014**, 3244-3252.
47. Yan Wang, Frankie Costanza, Haifan Wu, Daqian Song, **Jianfeng Cai*** and Qi Li*. PEG-poly (amino acid)s-encapsulated Tanshinone IIA as potential therapeutics for the treatment of hepatoma. *J. Mat. Chem. B.* **2014**, 3115-3112.
48. Chuanhai Cao*, Yaqiong Li, Hui Liu, Ge Bai, Xiaoyang Lin, Kyle Sutherland, Jonathan Myal, Neel Nabar, **Jianfeng Cai***. The potential therapeutic effects of THC on Alzheimer's disease. *J. Alz. Dis.* **2014**, DOI: 10.4161/hv.28735.
49. Xiaoyang Lin, Ge Bai, Linda Lin, Hengyi Wu, **Jianfeng Cai**, Kenneth E Ugen*, Chuanhai Cao*. Vaccination induced changes in pro-inflammatory cytokine levels as an early putative biomarker for cognitive improvement in a transgenic mouse model for Alzheimer disease. *Hum. Vaccin. Immunother.* **2014**, 10(7), DOI: 10.4161/hv.28735.
50. Peng Teng, Xiaolei Zhang, Haifan Wu, Qiao Qiao, Said M Sebti* and **Jianfeng Cai***. Identification of novel inhibitors that disrupt STAT3/DNA interaction from γ -AApeptide OBOC combinatorial library. *Chem. Commun.* **2014**, 50, 8739 - 8742.
51. Yaqiong Li, Christina Smith, Haifan Wu, Peng Teng, Yan Shi, Shruti Padhee, Torey Jones, Anh-My Nguyen, Chuanhai Cao, Hang Yin,* and **Jianfeng Cai***. Short antimicrobial lipo- α / γ -AA hybrid peptides. *ChemBioChem*, **2014**, 2074-2280.
52. Yaogang Hu, Ni Cheng, Haifan Wu, Samuel Kang, Richard D. Ye,* and **Jianfeng Cai**.* Design, synthesis and characterization of fMLF-mimicking AApeptides. *ChemBioChem*, **2014**, 15, 2420-2426.
53. Peng Teng, Haifan Wu, Lili Lin and **Jianfeng Cai**.* Antimicrobial γ -AApeptides (WO2013112548)-a patent evaluation. *Expert Opin. Ther. Pat.*, 2015, 25, 111-118.
54. Kenneth E. Ugen, Xiaoyang Lin, Ge Bai, Zhanhua Liang, **Jianfeng Cai**, Kunyun Li, Shijie Song, Chuanhai Cao* and Juan Sanchez-Ramos. Evaluation of an alpha synuclein sensitized dendritic cell based vaccine in a transgenic mouse model of Parkinson's disease. *Hum. Vaccin. Immunother.*, **2015**, ASAP.
55. Xuan Liu, Qing, Ji, Naijing Ye, Hua Sui, Lihong Zhou, Huirong Zhu, Zhongze Fan, **Jianfeng Cai**, and Qi Li.* Berberine Inhibits Invasion and Metastasis of Colorectal Cancer Cells via COX-2/PGE₂ Mediated JAK2/STAT3 Signaling Pathway. *PLoS One*, 2015, ASAP.
56. Qing Ji, Xuan Liu, Zhifen Han, Lihong Zhou, Hua Sui, Linlin Yan, Haili Jiang, Jianlin Ren, **Jianfeng Cai**, and Qi Li.* Resveratrol suppresses epithelial-to-mesenchymal transition in colorectal cancer through TGF- β 1/Smads signaling pathway mediated Snail/E-cadherin expression. *BMC Cancer*, **2015**, 15:97.

57. Haifan Wu, Qiao Qiao, Yaogang Hu, Peng Teng, Wenyang Gao, Xiaobing Zuo, Lukasz Wojtas, Randy W. Larsen, Shengqian Ma, and **Jianfeng Cai**.* Sulfono- γ -AApeptides as a new class of unnatural helical foldamer. *Chem. Eur. J.*, **2015**, 21, 2501-2507.
58. Haifan Wu, Fengyu She, Wen-Yang Gao, Austin Prince, Yaqiong Li, Lulu Wei, Allison Mercer, Lukasz Wojtas, Shengqian Ma, and **Jianfeng Cai**.* The Synthesis of Head-to-Tail Cyclic Sulfono- γ -AApeptides. *Org. Biomol. Chem.*, **2015**, 13, 672-676.
59. Haifan Wu, Qiao Qiao, Peng Teng, Yaogang Hu, Dimitrios Antoniadis, Xiaobing Zuo, and **Jianfeng Cai**.* A new class of heterogeneous helical peptidomimetics. Submitted.
60. Yaqiong Li, Haifan Wu, Peng Teng, Ge Bai, Xiaobing Zuo, Chuanhai Cao, and **Jianfeng Cai**.* Helical antimicrobial sulfono- γ -AApeptides. Submitted.

Patents (at USF)

1. Nathan J. Rice, Lennox Hoyte, and **Jianfeng Cai**. Materials and methods for reliable measurement of blood volume. 2011, *PCT Int. Appl. WO 2011/30304*.
2. **Jianfeng Cai**, Youhong Niu, Haifan Wu, Shruti Padhee. Identification of γ -AApeptides with potent and broad-spectrum antimicrobial activity. 2012, Application No. 61589406.
3. **Jianfeng Cai**, Youhong Niu, Weibo Cai, and Hao Hong. RGD mimetic γ -AApeptides and methods of use. 2012, Application No. 61/667035.
4. **Jianfeng Cai**, Chuanhai Cao, Haifan Wu, Yaqiong Li, and Ge Bai. Methods of Synthesizing γ -AApeptides, γ -AApeptide Building Blocks, γ -AApeptide Libraries, and γ -AApeptide Inhibitors of Abeta40 Aggregates, 2013, Application No. 61/870874.
5. Said M. Sebt, Xiaolei Zhang, **Jianfeng Cai**, Peng Teng. Identification of Novel Inhibitors that Disrupt STAT3/DNA Interaction from γ -peptide OBOC Combinatorial Library, 2014, Application No. 61/984179.

Book chapters

1. Youhong Niu, Yaogang Hu, Rongsheng E. Wang, Xiaolong Li, Haifan Wu, Jiandong Chen* and **Jianfeng Cai***. AApeptides as a New Class of Peptidomimetics to Regulate Protein-Protein Interactions. *Protein Interactions*, 2012, ISBN: 978-953-51-0244-1.
2. Youhong Niu, Yaogang Hu, Haifan Wu, and **Jianfeng Cai***. Synthesis of AApeptides. *Peptide Modifications to Increase Metabolic Stability and Activity*, 2013, ISBN: 978-1-62703-651-1.
3. Haifan Wu and **Jianfeng Cai***. Engineering AApeptides for Translational Medicine. *Engineering in Translational Medicine*, 2013, ISBN: 978-1-62703-651-1.
4. Peng Teng, Haifan Wu and **Jianfeng Cai***. Peptidomimetics as antimicrobial agents. *Novel Antimicrobial Agents and Strategies*. Wiley, 2014, accepted.

RESEARCH ORIGINALITY

Area: Bioorganic, Chemical Biology and Biophysics

Design, synthesis and investigation of a new class of peptidomimetics termed "AApeptides", and exploration their application towards bacterial infection, cancer, Alzheimer's disease, HIV, etc.

GRANTS

1. PI, New Investigator Grant, Florida Bank-head Coley Cancer Research Program, 07/01/2012-06/30/2015, \$374,000. Design, synthesis, and evaluation of γ -AApeptide-based protein tyrosine phosphatase inhibitors as novel anticancer agents
2. PI, NSF CAREER award. CAREER: Lipo-Cyclic Antimicrobial Peptidomimetics that Disrupt Bacterial Membrane. 07/01/2014-06/30/2019, \$500,000.

3. PI, NIH 1R01GM112652-01A1, \$1,799,703, 07/01/2015-06/30/2020 (proposed), Alpha-AApeptides as a novel class of antimicrobial biomaterials, **4% (very likely to be funded)**.

ORAL PRESENTATIONS

1. Florida Organic Day, Florida Southern College, 03/12/2012
2. Florida ACS meeting, Tampa, FL, 05/09/2012
3. Kimberly-Clark, Appleton, WI, 06/02/2012
4. Department of Chemistry, University of Oxford, Oxford, England, 06/07/2012
5. Interventional Cancer Institute of Integrative Medicine, Putuo Hospital, Shanghai, China, 12/12/2012
6. Department of Chemistry, University of Florida, Gainesville, FL, 11/15/2013
7. Department of Chemistry and Biochemistry, University of California-Santa Barbara, Santa Barbara, CA, 2/27/2014
8. Department of Chemistry, University of California-Irvine, Irvine, CA, 2/28/2014
9. Department of Chemistry and Biochemistry, Georgia Institute of Technology, GA, 3/10/2014
10. Department of Chemistry, Georgia State University, Atlanta, GA, 3/11/2014
11. Department of Chemistry, University of South Florida, GA, 3/13/2014
12. 247th ACS national meeting, Organic section, Dallas, TX, 3/17/2014
13. Department of Chemistry, Florida State University, Tallahassee, FL, 3/27/2014
14. Department of Chemistry, University of Wisconsin-Madison, Madison, WI, 4/3/2014
15. Kimberly-Clark, Appleton, WI, 4/4/2014
16. Department of Chemistry, Scripps Florida, Jupiter, FL, 4/17/2014
17. Innovative Drug Research Center, Chongqing University, Chongqing, China, 5/6/2014
18. Department of Chemistry, Nanjing University, Nanjing, China, 5/7/2014
19. College of Pharmacy, Shanghai Jiaotong University, Shanghai, China, 5/8/2014
20. Department of Medical Oncology, Shuguang Hospital, Shanghai University of Traditional Chinese Medicine, Shanghai, China, 5/9/2014
21. Bioorganic Gordon Conference, Andover, NH, 6/11/2014
22. Department of Chemistry, Washington University in St. Louis, MO, 4/23/2015 (scheduled)
23. Department of Chemistry, University of Missouri-St. Louis, 4/24/2015 (scheduled)

HONORS AND AWARDS

- 2014 Excellence in reviewing, European Journal of Medicinal Chemistry
2014 NSF Career Award
2014 ChemComm Emerging Investigator
2013 Internal Award, University of South Florida
2011 Ralph E. Powe Junior Faculty Enhancement Award, Oak Ridge Associated Universities (ORAU)
2011 Internal Award, University of South Florida
2010 Internal Award, University of South Florida

SERVICE

General

1. Reviewers for scientific journals including JACS, ACS nano, J. Med. Chem., Org. Lett., ACS Chem. Biol., Biomacromolecules, Marcomolecules, Chem. Eur. J., ChemBioChem, and many others.
2. NSF panelist, 3/5/2015
3. NIH BMBI study section, Ad hoc member, 6/17/2015 (scheduled)
4. Regular speaker in Museum of Science and Industry to promote chemical biology education on youths.

CAPA

1. CAPA member
2. Promote CAPA visibility among colleagues in different Universities
3. Attending CAPA gathering at ACS meetings