



糖化学与生物技术教育部重点实验室

Key Laboratory of Carbohydrate Chemistry and Biotechnology
(Jiangnan University), Ministry of Education

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蛋白质计算设计研究室

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组长简介

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研究方向：结合计算设计和实验验证获得一定性质与功能的生物大分子

- (1) 设计纤维蛋白生物材料
- (2) 研究纤维蛋白分子柔性
- (3) 改造工业酶制剂

教育经历

罗格斯即新泽西州立大学 (Rutgers, the State University of New Jersey, New Brunswick, New Jersey, USA)

2000-2007年，博士（主修）：生物化学/计算生物学。

2003-2006年，硕士（辅修）：食品化学。

1996-2000年，学士，武汉大学，生物学基地班。

工作经历

2014年至今：江南大学，生物工程学院，教授，博士生导师

2007-2014年：博士后助理研究员，罗格斯大学，生物技术及医药中心

2004-2007年：研究生助理，罗格斯大学，化学及生物化学系

2001-2004年：普通化学及有机化学实验助教，罗格斯大学，化学及生物化学系

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学术论文及综述

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- [2]. [Xu, Fei](#), Li, J., Jain, V., Tu, R., Huang, Q., Nanda, V., Compositionally Controlled Collagen Peptide Self-Assembly and Fiber Morphology, *Journal of American Chemical Society*, 2012, 134(1):47-50
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- [1]. Xu, Fei, Protein Folding Concepts and the Application to Computational Design of a Fibrous Protein, Invited Seminar of Chemistry Department, Kean University, Feb 2014, Union, NJ.
- [2]. Xu, Fei, Decoding Collagen - Computational Modeling and Design of Fibrous Proteins, Invited Seminar of Chemistry and Biochemistry Department, Rowan University, Jan 2013, Glassboro, NJ.
- [3]. Xu, Fei, Programmable Self-Assembly of Collagen-like Peptides, Invited Seminar of Chemistry and Biochemistry Department, University of Massachusetts-Dartmouth, June 2012, North Dartmouth, MA.
- [4]. Xu, Fei, Computational Design of a Collagen A:B:C-type Heterotrimer, American Chemical Society National Meeting, August 2011, Denver, CO.
- [5]. Xu, Fei Computationally modeled self-assembly of higher order structure of collagen peptides. Gordon Research Seminar and Conference on Collagen, July 2011, New London, NH.
- [6]. Xu, Fei, Self-Assembly of Higher Order Structures of Collagen peptides, 2nd Annual National Postdoc Appreciation Day Symposium, Rutgers/UMDNJ Post-Doc Association, September, 2010. Piscataway, NJ.
- [7]. Xu, Fei, Self-Assembly of High-order Structure of Collagen peptides, Biological Smart Materials Meeting, The New York Academy of Sciences, April 2010, New York City, NY.
- [8]. Xu, Fei, Optimization of Heterotrimeric Interactions of Collagen, Annual Retreat of Center for Advanced Biotechnology and Medicine, Rutgers University, Cook Campus Center, June, 2008, New Brunswick, NJ.
- [9]. Xu, Fei, Sin Mutations in Histone H3 and H4 Affect the Conformation and Interactions of DNA with Histone H2A and H2B, BIOMAPS Institute for Quantitative Biology Student Seminar, Rutgers University, April, 2006, Piscataway, NJ.



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