贾彦兴

个人信息:

生于	1975 年 5 月 1 日,河北满城
地址	北京大学药学院、天然药物及仿生药物国家重点实验室 北京市海淀区学院路 38 号,100191 电话 & 传真: +86-10-82805166 联系邮箱: yxjia@bjmu.edu.cn

学习经历:

1993-1997	理学学士，兰州大学化学系应用化学专业
1997-2002	理学博士，兰州大学化学系有机化学专业 （导师：涂永强 院士）
2002-2007	博士后，法国国家科学研究中心，天然产物化学研究所（导师：祝介平）

任职：

2007-	副教授(课题组长)，北京大学

研究方向与兴趣：

1. 具有重要生物活性天然产物的全合成及仿生合成；
2. 生物活性天然产物的结构改造以及构效关系研究；
3. 有机合成新方法、新策略的研究。

获奖情况:

2010	Asian Core Program Lectureship Award
2009	新世纪优秀人才支持计划
2009	北京大学医学部优秀青年学者
2008-2009	教学优秀奖
2008	第十一届中国药学会-施维雅青年药物化学奖
2002	甘肃省科技进步奖，一等奖（排名第五）
1997	兰州大学优秀毕业生
1997	张淑明奖学金

承担项目：

1. 2010.1-2012.12：国家自然科学基金委面上项目，“Celogentins 的合成及构效关系研究”。（20972007）
2. 2010.1-2013.12：国家自然科学基金委重点项目，“海绵 baculiferin 型新生物碱探针对 HIV-1 Vif 和 APOBEC3G 的靶向调控及作用机理研究”。（30930109/C180202）
3. 2010.1-2014.8：科技部 973，“具有重要生物活性的天然产物的化学合成”。（2010CB833200）
4. 2010.1-2012.12：教育部创新团队发展计划，“基于内源性物质的先导物发

现”。（IRT0902）

5. 2009.1-2011.12：国家自然科学基金委青年基金，“几种吲哚类生物碱的全合成研究”。（20802005）
6. 2009.1-2011.12：教育部博士点新教师基金，“Celogentin C 的合成研究”。（200800011055）
7. 2009.9-2010.09：中国科学院上海药物研究所新药研究国家重点实验室开放研究课题，“Celogentins 的全合成及构效关系研究”。
8. 2009.1-2009.12：兰州大学功能有机分子化学国家重点实验室开放课题，“Celogentins 的全合成研究”。
9. 教育部留学回国人员科研启动基金，“杀鱼菌素类天然产物的全合成研究”。
10. 2008.1-2008.12：兰州大学功能有机分子化学国家重点实验室开放课题，，“几种 3，4-二取代吲哚类生物碱的全合成研究”。
11. 2007.9-2008.8：国家自然科学基金委主任基金，“杀鱼菌素类天然产物的全合成研究”。（20842004）
12. 2007.11-2010.10：北京大学医学部、天然药物及仿生药物国家重点实验室（引进人才基金），“几种具有重要生物活性的吲哚类生物碱的全合成研究”。

论文及专著：

迄今为止已在国内外重要学术刊物上发表研究论文 40 篇。

独立课题组后：

40. “Total Synthesis of (±)-Decursivine and (±)-Serotobenine: A Cascade Witkop Photocyclization/Elimination/*O*-Michael Addition Approach”
Hua Qin, Zhengren Xu, Yuxin Cui, Yanxing Jia*
Angew. Chem. Int. Ed. **2011**, *50*, (online, DOI: 10.1002/anie.201100495).

39. “Total Synthesis of (–)-Indolactam V”
Zhengren Xu, Fengying Zhang, Lihe Zhang, Yanxing Jia*
Org. Biomol. Chem. **2011**, *9*, 2512–2517.

38. “Total Synthesis of Lamellarins D, H, and R and Ningalin B”
Qingjiang Li, Jingqian Jiang, Aili Fan, Yuxin Cui, Yanxing Jia*
Org. Lett. **2011**, *13*, 312–315.

37. “Total Synthesis of Clavicipitic Acid and Aurantioclavine: Stereochemistry of Clavicipitic Acid Revisited”
Zhengren Xu, Weimin Hu, Qiang Liu, Lihe Zhang, Yanxing Jia*
J. Org. Chem. **2010**, *75*, 7626–7635.

36. “One-Pot AgOAc-Mediated Synthesis of Polysubstituted Pyrroles from Primary Amines and Aldehydes: Application to the Total Synthesis of Purpurone”

Qingjiang Li, Aili Fan, Zhiyao Lu, Yuxin Cui, Wenhan Lin, Yanxing Jia*
Org. Lett. **2010**, *12*, 4066–4069.

35. "Stereocontrolled and Efficient Total Synthesis of (–)-Stephanotic Acid Methyl Ester and (–)-Celogentin C"
Weimin Hu, Fengying Zhang, Zhengren Xu, Qiang Liu, Yuxin Cui, Yanxing Jia*
Org. Lett. **2010**, *12*, 956–959.

34. "Water-Controlled Regioselectivity of Pd-Catalyzed Domino Reaction Involving a C–H Activation Process: Rapid Synthesis of Diverse Carbo- and Heterocyclic Skeletons"
Zhiyao Lu, Chunmei Hu, Jiajie Guo, Jing Li, Yuxin Cui, Yanxing Jia*
Org. Lett. **2010**, *12*, 480–483.

33. "Artificial Transcription Factors which Mediate Double-Strand DNA Cleavage"
Chao Li, Chao Du, Hua Tian, Chao Jiang, Min Du, Yan Liu, Renzhong Qiao*, Yanxing Jia*, and Yufen Zhao*
Chem. Eur. J. **2010**, *16*, 12935–12940.

32. "Formal synthesis of semiaquilegin A"
Jing Li, Yong Jiang, Qingjiang Li, Qiang Xiao, Yanxing Jia*, Pengfei Tu*
Tetrahedron Lett. **2010**, *51*, 1121–1123.

31. "Palladium-Catalyzed Synthesis of Tryptamines and Tryptamine Homologues: Synthesis of Psilocin"
Chunmei Hu, Hua Qin, Yuxin Cui, Yanxing Jia*
Tetrahedron **2009**, *65*, 9075–9080.

30. "Efficient Total Synthesis of (–)-*cis*-Clavicipitic Acid"
Zhengren Xu, Qingjiang Li, Lihe Zhang, Yanxing Jia*
J. Org. Chem. **2009**, *74*, 6859–6862.

29. "Total Synthesis of (-)-Incarvilline and (-)-Incarvillateine"
Fengying Zhang, Yanxing Jia*
Tetrahedron **2009**, *65*, 6840–6843.

28. "Palladium-Catalyzed Indole and Azaindole synthesis by Direct Annulation of Electron-Poor *o*-Chloroanilines and Chloroaminopyridines with Aldehydes"
Zhengren Xu, Weimin Hu, Fengying Zhang, Qingjiang Li, Zhiyao Lü, Lihe Zhang, Yanxing Jia*
Synthesis **2008**, 3981–3987.

博士、博士后期间：

27. “Total Synthesis of Complestatin (Chloropeptin II)”
Zhihui Wang, Michèle Bois-Choussy, **Yanxing Jia**, Jieping Zhu*
Angew. Chem. Int. Ed. **2010**, *49*, 2018–2022.

26. “Synthesis of Diastereomers of Complestatin, and Chloropeptin, High Substrate-dependent Atropstereoselectivity of Intramolecular Suzuki-Miyaura Reaction”
Yanxing Jia, Michèle Bois-Choussy, Jieping Zhu*
Angew. Chem. Int. Ed. **2008**, *47*, 4167–4172.

25. “Synthesis of DEFG Ring of Complestatin and Chloropeptin I: Highly Atropdiastereoselective Macrocyclization by Intramolecular Suzuki-Miyaura Reaction”
Yanxing Jia, Michèle Bois-Choussy, Jieping Zhu*
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24. “Palladium-Catalyzed Enantioselective Domino Heck-Cyanation Sequence: Development and Application to the Total Synthesis of Physostigmine”
Artur Pinto, **Yanxing Jia**, Luc Neuville, Jieping Zhu*
Chem. -A Eur. J. **2007**, *13*, 961–967.

23. “Importance of the Structure of Vancomycin Binding Pocket in Designing Compounds Active Against Vancomycin-resistant Enterococci (VRE)”
Yanxing Jia, Michèle Bois-Choussy, Adriano Malabarba, Cristina Brunati, Jieping Zhu*
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22. “Palladium-Catalyzed, Modular Synthesis of Highly Functionalized Indoles and Tryptophans by Direct Annulation of Substituted *o*-Haloanilines and Aldehydes”
Yanxing Jia, Jieping Zhu*
J. Org. Chem. **2006**, *71*, 7826–7834.

21. “A Novel Strategy for the Key Fully Substituted Cyclopentenedione Moiety of Madindolines via $AlEt_3$-Promoted Tandem Reductive Rearrangement of α-Hydroxy Epoxides”
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20. “Design and Synthesis of Simple Macrocycles Active Against Vancomycin-resistant *Enterococci* (VRE)”
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19. "Synthesis of Ring-A-Substituted Tryptophan by a Palladium-Catalyzed Heteroannulation Reaction"
Yanxing Jia, Jieping Zhu*
Synlett **2005**, 2469–2472.

18. "Identification of Synthetic Compounds Active Against VRE: The Role of the Lipidated Aminoglucose and the Structure of Glycopeptide Binding Pocket"
Yanxing Jia, Eduarda Gonzalez-Zamora, Nianchun Ma, Zuosheng Liu, Michèle Bois-Choussy, Adriano Malabarba, Cristina Brunati, Jieping Zhu*
Bioorg. Med. Chem. Lett. **2005**, *15*, 4594–4599.

17. "Synthesis of β-Amino-α-Hydroxy Esters and β-Amino-α-Azido Ester by Sharpless Asymmetric Aminohydroxylation, By-Products Analysis"
Zuosheng Liu, Nianchun Ma, **Yanxing Jia**, Michèle Bois-Choussy, Adriano Malabarba, Jieping Zhu*
J. Org. Chem. **2005**, *70*, 2847–2850.

16. "Design and synthesis of macrocycles active against vancomycin-resistant enterococci (VRE): the interplay between D-Ala-D-Lac binding and hydrophobic effect"
Nianchun Ma, **Yanxing Jia**, Zuosheng Liu, Eduarda Gonzalez-Zamora, Michèle Bois-Choussy, Adriano Malabarba, Cristina Brunati, Jieping Zhu*
Bioorg. Med. Chem. Lett. **2005**, *15*, 743–746.

15. "One or More C-H Bond(s) Formed by Substitution: Reduction of Carbon-Nitrogen, -Phosphorus, -Arsenic, -Antimony, -Bismuth, -Carbon, -Silicon, -Germanium, -Boron, and –Metal Bonds" in *"Comprehensive Organic Functional Group Transformations II"*, Eds. Katritzky, A. R., Taylor, R. J. K.; Volume Ed. Cossy, J. Elsevier, **2005**, *1*, 31-78
Jérome Blanchet, **Yanxing Jia**, Jieping Zhu*

14. "4-Nitrophenyltriflate" in *Electronic Encyclopedia of Reagents for Organic Synthesis (e-EROS)* Ed; L. A. Paquette, Wiley-VCH, Weinheim. **2004**
Yanxing Jia, Jieping Zhu*

13. "Synthetic studies of the HIV-1 protease inhibitive didemnaketals: stereocontrolled synthesis of an ester side chain"
Xuezhi Zhao, Yongqiang Tu*, Lei Peng, Xueqiang Li, **Yanxing Jia**
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12. "An Interesting $AlEt_3$-promoted Stereoselective Tandem Rearrangement/ Reduction of a-Hydroxy (or Amino) Heterocyclopropane"
Xin Li, Bin Wu, Xuezhi Zhao, **Yanxing Jia**, Yongqiang Tu*, Derun Li
Synlett **2003**, 623–626.

11. “An efficient synthetic approach to the aromatic sesquiterpenoids via a SmI_2-promoted construction of quternary centre”
Xuezhi Zhao, **Yanxing Jia**, Yongqiang Tu*
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10. “Convergent synthesis of the key core spiroketals of the HIV-1 protease inhibitors didemnaketals”
Yanxing Jia, Xin Li, Pingzhen Wang, Bin Wu, Xuezhi Zhao, Yongqiang Tu*
J. Chem. Soc., Perkin trans. 1 **2002**, 565–570.

9. “A convergent synthesis of the spiroketal moiety of the HIV-1 protease inhibitors didemnaketals”
Yanxing Jia, Xin Li, Bin Wu, Xuezhi Zhao, Yongqiang Tu*
Tetrahedron **2002**, *58*, 1697–1708.

8. “Synthetic Studies of the HIV-1 Protease Inhibitive Didemnaketals: Stereocontrolled Synthetic Approach to the Key Mother Spiroketals”
Yanxing Jia, Bin Wu, Xin Li, Shikuo Ren, Yongqiang Tu*, Albert S. C. Chan, William Kitching
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7. “A New One-Pot Synthesis of 2-Quaternary 1,3-Diketones”
Shikuo Ren, Fei Wang, Huani Dou, Chunan Fan, Lan He, Zhenlei Song, Wujiong Xia, Derun Li, **Yanxing Jia**, Xin Li, Yong qiang Tu*
Synthesis **2001**, *16*, 2384–2388.

6. “Diastereo-recognizable reaction between Cr(VI) reagents and tertiary α-hydroxy epoxide”
Yongqiang Tu*, Shikuo Ren, **Yanxing Jia**, Baomin Wang, Albert S. C. Chan, Michael C. K. Choi
Tetrahedron Lett. **2001**, *42*, 2141–2144.

5. “手性 3, 7-二甲基-5, 6-二羟基-辛-7-烯醛中间体的合成”
贾彦兴, 吴滨, 涂永强*
高等学校化学学报. **2001**, *22*, 584-586.

4. “Synthetic Studies of Didemnaketals Analogue-Construction of the Intermediate (3*S*,5*S*,6*R*)-3,7-Dimethyl-5,6,7-trihydroxy-octanal”
Yanxing Jia, Bin Wu, Pingzhen Wang, Yongqiang Tu*
Chin. Chem. Lett. **2000**, *11*, 509–510.

3. “Didemnaketal A 类似物的合成研究- C1-C7 中间体的合成”
贾彦兴, 王平珍, 吴滨, 涂永强*

高等学校化学学报。2000, *21*, 729-730.

2. “Synthetic Studies of an Analogue of HIV-1 Protease Inhibitors of Didemnaketals: Constructionof the C1-C8 Intermediate”
   Pingzhen Wang, **Yanxing Jia**, Yongqiang Tu*, Bin Wu
   Chin. Chem. Lett. **1999**, *10*, 749–750.

1. “Didemnaketal A 类似物的合成研究- C8-C15 中间体的合成”
   涂永强，* 刘增路，王平珍，**贾彦兴**
   高等学校化学学报. 1999, *20*, 81-83.

发明专利：

2. 李清江，**贾彦兴**；1，3，4-三取代或 3，4 二取代的吡咯环化合物的制备方法。申请号：201010177801.7

1. 姜勇，李菁，**贾彦兴**，屠鹏飞；一种制备长栲利素 A 的方法。申请号：200910236246.8