中山大学药学院
School of Pharmaceutical Sciences, Sun Yat-Sen University

简单介绍

黎星术，男，1954年生。四川师范大学化学系毕业；四川大学工学硕士，理学博士。1997 年起在香港理工大学, 台湾中兴大学, 日本岗山理科大学任博士后研究员, 研究员(Research Fellow)多年. 2005年到中山大学工作，教授, 博士生导师。2005年至今起被聘为香港理工大学荣誉研究员。

研究方向

主要研究方向：

1．手性配体的设计合成及在不对称合成，药物合成中的应用研究.

2．多靶点抗老年痴呆药物的设计、合成和生物活性研究

3. 多靶点抗哮喘、慢性阻塞性肺病药物的设计、合成和生物活性研究

负责的研究课题：

1. 国家自然科学基金课题（2项，22万，35万）；

2. 国家863课题（分课题，8万）；

3. 中山大学引进人才科研启动基金（50万）；

4. 广东省自然科学基金 （6万）；

5. 广州市科技攻关项目（30万）；

6. 广东一力药物集团公司合作项目（100万）；

7. 广东理文化工研发有限公司合作研究项目（175万）。

教学情况

1．有机化学

2．高等有机化学与药物合成

3．有机化学药物化学进展（讲座）

论著专利

近3年发表的部分文章:

1. Wu, Yinuo; Mao, Fei; Meng, Fanchao; Li, Xing-Shu*. Enantioselective Vanadium-Catalyzed Oxidation of 1,3-Dithianes from Aldehydes and Ketones using β-Amino Alcohol Derived Schiff Base Ligands.Advanced Synthesis & Catalysis (2011),353(10),1707-1712.

2. Wu, Yinuo; Li, Baozhu; Mao, Fei; Li, Xing-Shu*; Kwong, Fuk Yee. Palladium-Catalyzed Oxidative C-H Bond Coupling of Steered Acetanilides and Aldehydes: A Facile Access to ortho-Acylacetanilides. Organic Letters (2011), 13(12), 3258-3261.

3. Shan, Wen-Jun; Huang, Ling; Zhou, Qi; Jiang, Huai-Lei; Luo, Zong-Hua; Lai, Ke-fang; Li, Xing-Shu*. Dual β 2-adrenoceptor agonists-PDE4 inhibitors for the treatment of asthma and COPD. Bioorganic & Medicinal Chemistry Letters (2012), 22(4), 523-1526.

4. Shan, Wen-Jun; Huang, Ling; Zhou, Qi; Meng, Fan-Chao; Li, Xing-Shu*. Synthesis, biological evaluation of 9-N-substituted berberine derivatives as multi-functional agents of antioxidant, inhibitors of acetylcholinesterase, butyrylcholinesterase and amyloid-βaggregation. European Journal of Medicinal Chemistry (2011), 46(12), 5885-5893.

5. Jiang, Huailei; Wang, Xu; Huang, Ling; Luo, Zonghua; Su, Tao; Ding, Ke; Li, Xingshu*.Benzenediol-berberine hybrids: Multifunctional agents for Alzheimer's disease. Bioorganic & Medicinal Chemistry (2011), 19(23), 7228-7235.

6. Shi, Anding; Huang, Ling; Lu, Chuanjun; He, Feng; Li, Xing-Shu*. Synthesis, biological evaluation and molecular modeling of novel triazole-containing berberine derivatives as acetylcholinesterase and β-amyloid aggregation inhibitors. Bioorganic & Medicinal Chemistry (2011), 19(7), 2298-2305.

7. Huang, Ling; Luo, Zonghua; He, Feng; Shi, Anding; Qin, Fangfei; Li, Xing-Shu*.Berberine derivatives, with substituted amino groups linked at the 9-position, as inhibitors of acetylcholinesterase/butyrylcholinesterase. Bioorganic & Medicinal Chemistry Letters (2010), 20(22), 6649-6652.

8. Huang, Ling; Luo, Zonghua; He, Feng; Lu, Jing; Li, Xing-Shu*. Synthesis and biological evaluation of a new series of berberine derivatives as dual inhibitors of acetylcholinesterase and butyrylcholinesterase. Bioorganic & Medicinal Chemistry (2010), 18(12), 4475-4484.

9. Huang, Xiaoguang; Zhang, Aiqin; Chen, Dongliang; Jia, Zhenhua; Li, Xing-Shu*.4-Substituted 4-(1H-1,2,3-triazol-1-yl)piperidine: Novel C7 moieties of fluoroquinolones as antibacterial agents. 10. Huang, Ling; Shi, Anding; He, Feng; Li,Xing-Shu*. Synthesis,biological evaluation, and molecular modeling of berberine derivatives as potent acetylcholinesterase inhibitors. Bioorganic & Medicinal Chemistry (2010), 18(3), 1244-1251.
11. Huang, Xiaoguang; Chen, Dongliang; Wu, Ning; Zhang, Aiqin; Jia, Zhenhua; Li, Xingshu*.The synthesis and biological evaluation of a novel series of C7 non-basic substituted fluoroquinolones as antibacterial agents. Bioorganic & Medicinal Chemistry Letters (2009), 19(15), 4130-4133.
12. Wu, Yinuo; Liu, Juntao; Li, Xing-Shu*; Chan, Albert S. C. Vanadium-Catalyzed Asymmetric Oxidation of Sulfides Using Schiff Base Ligands Derived from β-Amino Alcohols with Two Stereogenic Centers. European Journal of Organic Chemistry (2009), (16), 2607-2610.
13. Lu, Chuanjun; Luo, Zonghua; Huang, Ling; Li, Xing-Shu*. The Ru-catalyzed enantioselective preparation of chiral halohydrins and their application in the synthesis of (R)-clorprenaline and (S)-sotalol. Tetrahedron: Asymmetry (2011), 22 (7), 722-727.
14. Shan, Wenjun; Meng, Fanchao; Wu, Yinuo; Mao, Fei; Li, Xing-Shu*. The synthesis of a new nitrogen joined N-PEG-TsDPEN ligand and its application in asymmetric transfer hydrogenation of ketones in neat water. Journal of Organometallic Chemistry (2011), 696(8), 1687-1690.
15. Wei, Hui; Yin, Lu; Luo, Haibin; Li, Xing-Shu*; Chan, Albert S. C. Structural influence of chiral tertiary aminonaphthol ligands on the asymmetric phenyl transfer to aromatic aldehydes. Chirality (2011), 23(3), 222-227.
16. Yin, Lu; Zheng, Yourou; Jia, Xian; Li, Xingshu*; Chan, Albert S. C. Efficient and promising asymmetric preparation of enantiopure tolvaptan via transfer hydrogenation with robust catalysts. Tetrahedron: Asymmetry (2010), 21(19), 2390-2393.
17. Huang, Ling; Liu, Juntao; Shan, Wenjun; Liu, Bao; Shi, Anding; Li, Xingshu*. The asymmetric synthesis of (R,R)-formoterol via transfer hydrogenation with polyethylene glycol bound Rh catalyst in PEG2000 and water. Chirality (2010), 22 (2), 206-211.

18. Yin, Lu; Jia, Xian; Li, Xingshu*; Chan, Albert S. C. A rapid and green approach to chiral α-hydroxy esters: asymmetric transfer hydrogenation (ATH) of α-keto esters in water by use of surfactants. Tetrahedron: Asymmetry (2009), 20(17), 2033-2037.
19. Chen, Xueming; Wei, Hui; Chen, Yunyun; Li, Xingshu*. A Convenient synthesis of imidazolidin-4-ones via Domino reactions. Helvetica Chimica Acta (2009), 92 (8), 1550-1557.
20. Yin, Lu; Shan, Wenjun; Jia, Xian; Li, Xingshu*; Chan, Albert S. C. Ru-catalyzed enantioselective preparation of methyl (R)-o-chloromandelate and its application in the synthesis of (S)-Clopidogrel. Journal of Organometallic Chemistry (2009), 694(13), 2092-2095.
21. Wu, Yinuo; Lu, Chuanjun; Shan, Wenjun; Li, Xingshu*. A practical process to chiral ferrocenyl alcohols via asymmetric transfer hydrogenation catalyzed with a PEG-bound Ru catalyst in water and its application in preparing Ugi's amine. Tetrahedron: Asymmetry (2009), 20(5), 584-587.
22. Liu, Bao; Zhong, Yao; Li, Xingshu*. Enantioselective addition of phenylacetylene to N-aryl arylimines catalyzed by Cu(II)-pyridine containing N-tosylated aminoimine ligand complex. Chirality (2009), 21(6), 595-599.
23. Chen, Xueming; Hou, Lei; Li, Xingshu*. An easy one-pot synthesis of tetrasubstituted 3-alkynylpyrroles via multicomponent coupling reaction. Synlett (2009), (5), 828-832.

获奖情况

1. 2005年国家自然科学二等奖；
2. 2004 - 2007年国际重要刊物Tetrahedron: Asymmetry最高引用率奖。

校内站点

中山大学
中山大学教务部
中山大学生命科学学院
中山大学化学学院
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国家卫生部

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