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姓名：徐学清

职称：教授，博士

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研究方向：

1. 吸血节肢动物唾液腺蛋白的结构功能关系研究；

2. 动物毒素活性多肽组分的开发与利用；

研究工作经历：

08/2018至今　南方医科大学，药学院，教授

12/2012-07/2018 南方医科大学，药学院，副教授

10/2009-09/2012 美国国立卫生研究院，过敏原与传染病研究所，博士后

05/2009-09/2009 美国弗吉尼亚大学，药学院，博士后

07/2007-05/2009 南方医科大学，药学院，讲师

学习经历：

09/2004-07/2007 中国科学院，昆明动物研究所，博士

09/2001-07/2004 南京农业大学，动物医学院，硕士

09/1997-07/2001 湖北农学院，动物科学系，学士

承担课程：

《药理学》，《微生物与生化药学院》

科研课题：

1. 国家自然科学基金国际(地区)合作与交流项目，31911530077，花姬蛙皮肤小分子丝氨酸蛋白酶抑制剂的结构与功能研究，2019/01-2020/12，10万元，在研，主持；

2. 国家自然科学基金国际(地区)合作与研究项目,31861143050，埃及蝎毒新型抗肿瘤肽的分子鉴定和研发，2019/01-2021/12，170万元， 在研，主持；

3. 国家自然科学基金面上项目，31772476，花姬蛙皮肤潜在药用多肽的结构与功能研 究，2018/01-2021/12，70万元，在研，主持；

4. 国家自然科学基金面上项目，31370782，印鼠客蚤FS50肽抑制Nav1.5钠通道的结构 基础和作用机制，2014/01-2017/12，80万元，结题，主持 ；

5. 国家自然科学金，30800185，蛴螬活血化瘀的分子机制研究，2009/01-2011/12，20万元，结题，主持；

6. 南方医科大学杰青培养计划项目，蛋白质与多肽生物化学，2014/01-2016/12，45 万元，结题，主持；

7. 广州市产学研协同创新重大专项产业技术研究项目，重组人透明质酸酶的细胞株开发与工艺优化研究、2016/01-2018/12，60万元，结题，共同主持；

主要论著：

1. Deng Z, Chai J, Zeng Q, Zhang B, Ye T, Chen X, Xu X. The anticancer properties and mechanism of action of tablysin-15, the RGD-containing disintegrin, in breast cancer cells. Int J Biol Macromol. 2019, 129:1155-1167. (IF: 4.08) 0141--8130

2. Zeng B, Chai J, Deng Z, Ye T, Chen W, Li D, Chen X, Chen M, Xu X. Functional Characterization of a Novel Lipopolysaccharide-Binding Antimicrobial and Anti-Inflammatory Peptide in Vitro and in Vivo. J Med Chem. 2018, 61(23):10709-10723 (IF: 6.259)

3. Zhang B, Deng Z, Zeng B, Yang S, Chen X, Xu X#, Wu J#. In-vitro effects of the FS50 protein from salivary glands of Xenopsylla cheopis on voltage-gated sodium channel activity and motility of MDA-MB-231 human breast cancer cells. Anticancer Drugs. 2018, 29(9):880-889 (IF: 1.869)

4. Xu X#, Zhang B, Yang S, An S, Ribeiro JM, Andersen JF#. Structure and Function of FS50, a salivary protein from the flea Xenopsylla cheopis that blocks the sodium channel NaV1.5. Sci Rep. 2016, 6:36574 (IF: 5.288)

5. Xu X#, Liu WJ, Li WZ, Liu SW#. Anticoagulant activity of crude extract of Holotrichia diomphalia larvae. Journal of Ethnopharmacology, 2016, 7: 28-34. （IF: 2.998）

6. Xu X，Lai R，The Chemistry and Biological Activities of Peptides from Amphibian Skin Secretions, Chemical Reviews, 2015, 115(4): 1760-1846.(IF: 45.6)

7. Xu X, Chang BW, Mans BJ, Ribeiro JM, Andersen JF. The structure and ligand-binding properties of the biogenic amine-binding protein from saliva of a blood-feeding insect vector of Trypanosoma cruzi. Acta Crystallogr D Biol Crystallogr, 69(Pt 1): 105-13. 2013. (IF: 12.619)

8. Xu X, Oliveira F, Chang BW, Collin N, Gomes R, Teixeira C, Reynoso D, Pham VM, Elnaiem DE, Kamhawi S, Ribeiro JM, Valenzuela JG, Andersen JF. Structure and function of a "yellow" protein from saliva of the sand fly Lutzomyia longipalpis that confers protective immunity against Leishmania major infection. J Biol Chem, 286(37): 32383-93, 2011 (IF: 5.328)

9. Xu X, Francischetti IM, Lai R, Ribeiro JM, Andersen JF. Structure of protein having inhibitory disintegrin and leukotriene scavenging functions contained in single domain. J Biol Chem, 287(14): 10967-76, 2012 (IF: 4.773)

10. Ma D, Xu X, An S, Liu H, Yang X, Andersen JF, Wang Y, Tokumasu F, Ribeiro JM, Francischetti IM, Lai R. A novel family of RGD-containing disintegrins (Tablysin-15) from the salivary gland of the horsefly Tabanus yao targets αIIbβ3 or αVβ3 and inhibits platelet aggregation and angiogenesis. Thrombosis and Haemostasis, 105(6):1032-45, 2011 (IF: 4.701)

11. Xu X, Yang H, Ma D, Wu J, Wang Y, Song Y, Wang X, Lu Y, Yang J, Lai R. Toward an understanding of the mole

cular mechanism for successful blood feeding by coupling proteomics analysis with pharmacological testing of horsefly salivary glands. Mol Cell Proteomics, 7(3): 582-90, 2008 (IF 8.834)

12. Li J, Xu X, Xu C, Zhou W, Zhang K, Yu H, Zhang Y, Zheng Y, Rees HH, Lai R, Yang D, Wu J. Anti-infection peptidomics of amphibian skin. Mol Cell Proteomics, 6(5):882-94, 2007 (IF 9.425)

13. Li J, Zhang C, Xu X, Wang J, Yu H, Lai R, Gong W. Trypsin inhibitory loop is an excellent lead stucture to design serine protease inhibitors and antimicrobial peptides. The FASEB Journal, 21(10): 2466-73, 2007 (IF 7.2)

14. Xu X, Li J, Lu Q, Yang H, Zhang Y, Lai R. Two families of antimicrobial peptide from wasp (Vespa magnifica) venom. Toxicon, 47(2):249-53, 2006 (IF 2.6)

15. Xu X, Li J, Han Y, Yang H, Liang J, Lu Q, Lai R. Two antimicrobial peptides from skin secretions of rana grahami. Toxicon, 47(4): 459-64, 2006 (IF 2.6)

16. Xu X, Yang H, Yu H, Li J, Lai R. The mastoparanogen from wasp. Peptides, 27(12):3053-7, 2006 (IF 2.6)

17. Yang H, Xu X, Ma D, Zhang K, Lai R. A phospholipase A1 platelet activator from the wasp venom of Vespa magnifica (Smith). Toxicon, 51(2):289-96, 2008 (IF: 2.46)

18. Li J, Xu X, Yu H, Yang H, Huang Z, Lai R. Direct antimicrobial activities of PR-bombesin. Life Sciences, 78(17):1953-6, 2006 (IF 1.6)

19. Ma D, Wang Y, Yang H, Wu J, An S, Gao L, Xu X, Lai R. Anti-thrombosis repertoire of blood-feeding horsefly salivary glands. Mol Cell Proteomics. Mol Cell Proteomics. 8(9): 2071-9, 2009 (IF:8.345)

20. Ma D, Li Y, Dong J, An S, Wang Y, Liu C, Yang X, Yang H, Xu X, Lin D, Lai R. Purification and characterization of two new allergens from the salivary glands of the horsefly, Tabanus yao. Allergy, 66(1):101-9, 2011 (IF:6.297)

21. An S, Chen L, Wei JF, Yang X, Ma D, Xu X, Xu X, He S, Lu J, Lai R. Purification and characterization of two new allergens from the venom of Vespa magnifica. PLoS One, 7(2): e31920, 2012 (IF: 4.1)

22. Li J, Wu H, Hong J, Xu X, Yang H, Wu B, Wang Y, Zhu J, Lai R, Jiang X, Lin D, Prescott MC, Rees HH. Odorranalectin is a small peptide lectin with potential for drug delivery and targeting. PLoS One, .3(6):e2381, 2008 (IF 4.41)

23. Li J, Wu J, Wang Y, Xu X, Liu T, Lai R, Zhu H. A small trypsin inhibitor from the frog of Odorrana grahami. Biochimie, 90(9):1356-61, 2008 (IF 3.071)

24. Ma D, Gao L, An S, Song Y, Wu J, Xu X, Lai R . A horsefly saliva antigen 5-like protein containing RTS motif is an angiogenesis inhibitor. Toxicon. 55(1): 45-51, 2010 (IF 2.451)

25. Qi Z, Pan C, Lu H, Shui Y, Li L, Li X, Xu X, Liu S, Jiang S. A recombinant mimetics of the HIV-1 gp41 prehairpin fusion intermediate fused with human IgG Fc fragment elicits neutralizing antibody response in the vaccinated mice. Biochem Biophys Res Commun, 398(3):506-12, 2010 (IF: 2.595)

26. Han J, You D, Xu X, Han W, Lu Y, Lai R, Meng Q. An anticoagulant serine protease from the wasp venom of Vespa magnifica. Toxicon, 51(5): 914-22, 2008 (IF 2.46)

27. Che Q, Zhou Y, Yang H, Li J, Xu X, Lai R. A novel antimicrobial peptide from amphibian skin secretions of Odorrana grahami. Peptides, 29(4):529-35, 2008 (IF 2.654)

28. Chen L, Li Y, Li J, Xu X, Lai R, Zou Q. An antimicrobial peptide with antimicrobial activity against Helicobacter pylori. Peptides, 28(8):1527-31, 2007 (IF 2.654)

29. Li J, Yu H, Xu X, Wang X, Liu D, Lai R. Multiple bombesin-like peptides with opposite functions from skin of Odorrana grahami. Genomics, 89(3):413-8, 2007 (IF 3.327)

30. Wang X, Song Y, Li J, Liu H, Xu X, Lai R, Zhang K. A new family of antimicrobial peptides from skin secretions of Rana pleuraden. Peptides, 28(10):2069-74, 2007 (IF 2.654)

31. Lu Y, Li J, Yu H, Xu X, Liang J, Tian Y, Ma D, Lin G, Huang G, Lai R. Two families of antimicrobial peptides with multiple functions from skin of rufous-spotted torrent frog, Amolops loloensis, Peptides, 27(12):3085-91, 2006 (IF 2.46)

32. Li J, Liu T, Xu X, Wang X, Wu M, Yang H, Lai R. Amphibian tachykinin precursor, Biochemical and Biophysical Research Communications, 350(4): 983-6, 2006 (IF 2.9)

33. Liang J, Han Y, Li J, Xu X, Rees HH, Lai R. A novel bradykinin -peptide from skin secretions of rufous-spotted torrent frog, Amolops loloensis. Peptides, 27(11):2683-7, 2006 (IF 2.46)

34. Yu D, Sheng Z, Xu X, Li J, Yang H, Liu Z, Rees HH, Lai R. A novel antimicrobial peptide from salivary glands of t

he hard tick, Ixodes sinensis. Peptides, 27(1):31-5, 2006（IF 2.46）

35. Zhou Z, Yang H, Xu X, Wang X, Lai R. The first report of kininogen from invertebrates. Biochem Biophys Res Commun, 347(4):1099-102, 2006（IF 2.648）

36. Alvarenga PH，Xu X，Oliveira F，Chagas AC，Nascimento CR，Francischetti IM，Juliano MA，Juliano L，Scharfstein J，Valenzuela JG,，Ribeiro JM，Andersen JF ，Novel family of insect salivary inhibitors blocks contact pathway activation by binding to polyphosphate, heparin, and dextran sulfate. Arterioscler Thromb Vasc Biol，2013，33（12）：2759-2770

37. Veiga AB, Ribeiro JM, Francischetti IM, Xu X, Guimarães JA, Andersen JF. Examination of the ligand-binding and enzymatic properties of a bilin-binding protein from the poisonous caterpillar Lonomia obliqua. PLoS One. 2014 Jun 27;9(6):e95424.

获奖情况:

1.云南省科学技术奖自然科学一等奖（获奖人排名：赖仞、杨世隆、徐学清、杨海龙、张治业、安舒、李东升），云南省政府，2018

2. 霍英东青年教师奖（三等奖），霍英东教育基金会，2010；

3. 优秀科技论文特等奖(获奖人排名：徐学清、杨海龙、马东莹、武静、赖仞)，云南省科学技术协会，2010；

4 云南省科学技术奖突出贡献类自然科学一等奖（获奖人排名：赖仞、张云、李建许、张亚平、郑永唐、徐学清、杨海龙、李文辉），云南省政府，2008；

5. 先进工作者荣誉称号；南方医科大学，2008；

6. 院长奖优秀奖，中国科学院，2007；

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