



【基本信息】

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【个人简介】

1981年12月出生，汉族，2009年6月进入江南大学工作，一直从事生化与分子生物学、基因工程、酶工程等领域研究工作，近年来发表SCI论文三十余篇，申请发明专利二十余项，授权发明专利4项；主持包括国家自然科学基金等在内科研项目8项；曾获江南大学优秀班主任、本科优秀毕业论文指导教师等。

【主要论著】

1. Luo Q, Chen Y, Xia J, Wang KQ, Cai YJ, Liao XR, **Guan ZB***. Functional expression enhancement of *Bacillus pumilus* W3 CotA-laccase mutant WLF through site-directed mutagenesis. *Enzyme and Microbial Technology*, 2018, 109:11–19. (*Corresponding author)
2. Chen Y, Luo Q, Zhou W, Xie Z, Cai YJ, Liao XR, **Guan ZB***. Improving the catalytic efficiency of *Bacillus pumilus* W3 CotA-laccase by site-directed mutagenesis. *Applied Microbiology and Biotechnology*, 2017, 101:1935–1944. (*Corresponding author)
3. Zhou W, **Guan ZB***, Chen Y, Zhang F, Cai YJ, Xu CW, Chen XS, Liao XR. Production of spore laccase from *Bacillus pumilus* W3 and its application in dye decolorization after immobilization. *Water Science and Technology*, 2017, 76:147-154. (*Corresponding author)
4. **Guan ZB**, Wang KQ, Shui Y, Liao XR. Establishment of a markerless multiple-gene deletion method based on Cre/loxP mutant system for *Bacillus pumilus*. *Journal of Basic Microbiology*, 2017, 57:1065–1068.
5. **Guan ZB**, Yi HX, Zhao H, Shui Y, Cai YJ, Liao XR. Cell division cycle 2 participates in eyestalk ablation-induced ovarian maturation of *Procambarus clarkii*. *Aquaculture*, 2017, 468:115-119.
6. **Guan ZB**, Yin J, Chen K, Shui Y, Cai YJ, Liao XR. The hepatopancreas and ovary are the sites of vitellogenin synthesis in female red swamp crayfish (*Procambarus clarkii*). *Journal of Crustacean Biology*, 2016, 36:637-641.
7. **Guan ZB**, Cai YJ, Zhang YZ, Zhao H, Liao XR. Complete genome sequence of *Bacillus pumilus* W3: A strain exhibiting high laccase activity. *Journal of Biotechnology*, 2015, 207:8-9.
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9. **Guan ZB**, Song CM, Zhang N, Zhou W, Xu CW, Zhou LX, Zhao H, Cai YJ, Liao XR. Overexpression, characterization, and dye-decolorizing ability of a thermostable, pH-stable, and organic solvent-tolerant laccase from *Bacillus pumilus* W3. *Journal of Molecular Catalysis B, Enzymatic*, 2014, 101:1-6.
10. **Guan ZB**, Zhang N, Song CM, Zhou W, Zhou LX, Zhao H, Xu CW, Cai YJ, Liao XR. Molecular Cloning, Characterization, and Dye-Decolorizing Ability of a Temperature- and pH-Stable Laccase from *Bacillus subtilis* X1. *Applied Biochemistry and Biotechnology*, 2014, 172:1147-1157.
11. **Guan ZB**, Shui Y, Liao XR, Xu ZH, Zhou X. Primary structure of a novel gonadotropin-releasing hormone (GnRH) in the ovary of red swamp crayfish *Procambarus clarkii*. *Aquaculture*, 2014, 418-419:67-71.
12. **Guan ZB**, Shui Y, Zhou X, Xu ZH, Zhao CY, Song CM, Liao XR. Participation of calmodulin (CaM) in ovarian maturation induced by eyestalk ablation in red swamp crayfish *Procambarus clarkii*. *Aquaculture Research*, 2013, 44:1625-1631.
13. **Guan ZB**, Zhang ZZ, Cao Y, Chen LL, Xie GF, Lu J. Analysis and comparison of bacterial communities in two types of “wheat Qu”, the starter culture of Shaoxing rice wine, using nested PCR-DGGE. *Journal*

of *Institute Brewing*, 2012, 118:127-132.

14. **Guan ZB**, Shui Y, Lu J. Molecular identification of the gene encoding porcine tristetraprolin (TTP). *Molecular and Cellular Biochemistry*, 2010, 345:145-151.
15. **Guan ZB**, Cai GL, Sun JY, Lu J. Identification and expression analysis of bovine *ANGPTL* gene family. *Current Zoology*, 2010, 56:444-452.
16. **Guan ZB**, Shui Y, Zhang JX, Zhang SQ. Molecular cloning, genomic organization and expression analysis of the gene encoding bovine (*Bos taurus*) B-cell activating factor belonging to the TNF family (BAFF). *Gene*, 2008, 425:17-22.
17. **Guan ZB**, Ye JL, Dan WB, Yao WJ, Zhang SQ. Cloning, expression and bioactivity of duck BAFF. *Molecular Immunology*, 2007, 44:1471-1476.
18. **Guan ZB**, Dan WB, Shui Y, Ye JL, Zhang SQ. cDNA cloning, expression and bioactivity of porcine BAFF. *Developmental and Comparative Immunology*, 2007, 31:1211-1219.
19. **Guan ZB**, Yao WJ, Ye JL, Dan WB, Shen JY, Zhang SQ. The construction and characterization of a bifunctional EGFP/sAPRIL fusion protein. *Applied Microbiology and Biotechnology*, 2007, 73:1114-1122.
20. **Guan ZB**, Shui Y, Zhang SQ. Two related ligands of the TNF family, BAFF and APRIL, in rabbit: Molecular cloning, 3D modeling, and tissue distribution. *Cytokine*, 2007, 39:192-200.

书籍：《Guide to Protein Purification》(Second Edition) 导读撰写及序言、目录等翻译工作(主要完成人)，科学出版社，2011年。

【科研项目】

1. 国家自然科学基金面上项目(主持, No. 31472003)
2. 国家自然科学基金青年基金项目(主持, No. 31101331)
3. 教育部博士点基金新教师项目(主持, No. 20110093120002)
4. 中央高校基本科研业务费(主持, No. JUSRP10916)
5. 工业生物技术教育部重点实验室开放课题(主持, No. KF201304&KF201607)
6. 与淡水渔业研究中心合作项目(主持)
7. 企业合作项目2项(主持)

【发明专利】

1. 管政兵, 廖祥儒, 蔡宇杰, 等。一种高效分泌表达短小芽胞杆菌漆酶的方法。专利申请号: 201410712849.1
2. 管政兵, 陈宇, 廖祥儒, 蔡宇杰, 等。一种通过复合点突变改造的高底物特异性短小芽胞杆菌 CotA 漆酶。专利申请号: 201510717404.7
3. 管政兵, 陈宇, 廖祥儒, 罗权, 等。一种催化活性提高的短小芽胞杆菌 CotA 漆酶突变体及其制备方法。专利申请号: 201510716645.X
4. 管政兵, 罗权, 夏静, 王凯强, 廖祥儒。一种可溶性表达量提高的短小芽胞杆菌 CotA 漆酶突变体。专利申请号: 201710437791.8
5. 管政兵, 周稳, 廖祥儒, 蔡宇杰, 等。一种磁性固定化芽胞漆酶及其制备方法与应用。专利申请号: 201510493134.6
6. 管政兵, 周稳, 廖祥儒, 蔡宇杰, 等。一种以废弃海绵为载体的固定化芽胞漆酶及其制备方法。专利申请号: 201510456440.2
7. 管政兵, 廖祥儒, 宋晨萌, 张宁。一种高效表达枯草芽胞杆菌漆酶的基因工程菌及其应用。专利授权号: ZL 201310280822.5

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