

个人简历

基本信息



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工作经历及教育背景

7/2011- 至今	研究员, 浙江万里学院
2/2015- 8/2015	访问学者, 牛津大学, 英国
9/2010- 4/2011	访问学者, 新泽西州立大学, 美国
7/2009- 6/2011	讲师, 浙江万里学院
9/2006- 7/2009	博士, 海洋生物, 中国科学院海洋研究所, 青岛
9/2003-7/2006	硕士, 水产养殖, 宁波大学, 宁波
9/1999- 7/2003	本科, 生物科学, 宁波大学, 宁波

教学经历

◆ 浙江万里学院

硕士课程: Z1010 水产动物遗传育种 (2012 - 至今).

Z1015 生物工程研究前沿 (2012 - 至今).

本科课程: 1F1302 试验设计与数据处理 (2010 - 至今).

1F14455 海洋生物遗传育种学 (2013 - 2014).

现代海洋生物技术与应用 (2014-2015)

科研方向

- ◆ **贝类免疫机制研究：** 贝类免疫抗病基因功能、免疫防御机制、抗菌肽和抗菌机制研究等
- ◆ **贝类遗传和分子辅助育种：** 种群遗传结构、遗传连锁图谱、SNP、GWAS 等遗传和性状关联分析等
- ◆ **基因和分子进化研究：** 贝类免疫和发育相关基因家族功能研究和分子进化分析等

论文及著作(2000– 2016)

- (1) **Bao Y**, Li L, Zhang G. The manganese superoxide dismutase gene in bay scallop *Argopecten irradians*: Cloning, 3D modelling and mRNA expression. *Fish and Shellfish Immunology*, 2008, 25(4): 425-432.
- (2) **Bao Y**, Li L, Wu Q, Zhang G. Cloning, characterization and expression analysis of extracellular copper/zinc superoxide dismutase gene from bay scallop *Argopecten irradians*. *Fish and Shellfish Immunology*, 2009, 27(1): 17-25.
- (3) **Bao Y**, Li L, Xu F, Zhang G. Intracellular copper/zinc superoxide dismutase from bay scallop *Argopecten irradians*: its gene structure, mRNA expression and recombinant protein. *Fish and Shellfish Immunology*, 2009, 27(2): 210-220.
- (4) **Bao Y**, Li L, Zhang G. Polymorphism of the superoxide dismutase gene family in the bay scallop (*Argopecten irradians*) and its association with resistance/susceptibility to *Vibrio anguillarum*. *Developmental and Comparative Immunology*, 2010, 29(5): 740-746.
- (5) **Bao Y**, Lin Z. Generation, annotation, and analysis of ESTs from hemocyte of the bloody clam, *Tegillarca granosa*. *Fish and Shellfish Immunology*, 2010, 27(2): 210-220.
- (6) **Bao Y**, Wang Q, Liu H, Lin Z. A small HSP gene of bloody clam (*Tegillarca*

- granosa*) involved in the immune response against *Vibrio parahaemolyticus* and lipopolysaccharide. *Fish and Shellfish Immunology*, 2011, 30(2): 729-733.
- (7) **Bao Y**, Wang Q, Lin Z. Hemoglobin of the bloody clam *Tegillarca granosa* (Tg-Hbl) is involved in the immune response against bacterial infection. *Fish and Shellfish Immunology*, 2011, 31(4): 517-523.
- (8) Ding J, Li J, **Bao Y**, Li L, Wu F, Zhang G. Molecular characterization of a mollusk chicken-type lysozyme gene from *Haliotis discus hannai* Ino, and the antimicrobial activity of its recombinant protein. *Fish and Shellfish Immunology*, 2011, 30(1): 63-72.
- (9) Wu Q, Xu F, **Bao Y**, Li L, Zhang G. Bindin gene from the Kumamoto oyster *Crassostrea sikamea*, and divergence of the fucose lectin repeats of bindin among three species of *Crassostrea*. *Journal of Shellfish Research*, 2011, 30(1): 55-64.
- (10) Wang Q, **Bao Y***, Huo L, Gu H, Lin Z. A novel tissue inhibitor of metalloproteinase in blood clam *Tegillarca granosa*: Molecular cloning, tissue distribution and expression analysis. *Fish and Shellfish Immunology*, 2012, 33(3), 645-651.
- (11) **Bao Y**, Li L, Ye M, Dong Y, Lin Z. Expression of glutamine synthetase in *Tegillarca granosa* (Bivalvia, Arcidae) hemocytes stimulated by *Vibrio parahaemolyticus* and lipopolysaccharides. *Genetics and Molecular Research*, 2013, 12 (2): 1143-1154.
- (12) **Bao Y**, Li P, Dong Y, Lin Z. Polymorphism of the multiple hemoglobins in blood clam *Tegillarca granosa* and its association with disease resistance to *Vibrio parahaemolyticus*. *Fish and Shellfish Immunology*, 2013, 34(5): 1320-1324.
- (13) **Bao Y**, Shen H, Zhou H, Dong Y, Lin Z. A tandem-repeat galectin from blood clam *Tegillarca granosa* and its induced mRNA expression response against bacterial challenge. *Genes & Genomics*, 2013, 35(6): 733-740.
- (14) **Bao Y**, Wang Q, Guo X, Lin Z. Structure and immune expression analysis of

- hemoglobin genes from the blood clam *Tegillarca granosa*. *Genetics and Molecular Research*. 2013, 12(3): 3110-3123.
- (15) **Bao Y**, Zhang L, Dong Y, Lin Z. Identification and comparative analysis of the *Tegillarca granosa* haemocytes microRNA transcriptome in response to Cd using a deep sequencing approach. *PLoS ONE*, 2014, 9(4): e93619.
- (16) X Chen, R Zhang, C Li, **Y Bao***. Mercury exposure modulates antioxidant enzymes in gill tissue and hemocytes of *Venerupis philippinarum*. *Invertebrate Survival Journal*, 2014, 11: 298-308.
- (17) Zhang P, Li C, Zhang P, Jin C, Pan D, **Bao Y**. iTRAQ-Based proteomics reveals novel members involved in pathogen challenge in sea cucumber *Apostichopus japonicus*. *PLoS One*, 2014, 9(6): e100492.
- (18) Dong Y, Yao H, Shi S, **Bao Y**, Lin Z. Development of novel polymorphic microsatellite markers for the blood clam *Tegillarca granosa* by pyrosequencing. *Genetics and Molecular Research*, 2015, 14(3): 8977-8987
- (19) Dong Y, Shi S, **Bao Y**, Yao H, Jing Y, Lin Z. Development of 90 EST-SNP markers in blood clam (*Tegillarca granosa*) using high resolution melting (HRM). *Conservation Genetics Resources*, 2015, 7(2):309-314
- (20) Dong Y, Yao H, Shi S, **Bao Y**, Lin Z. Development of novel polymorphic microsatellite markers for the blood clam *Tegillarca granosa* by pyrosequencing. *Genetics and Molecular Research*, 2015, 14(3): 8977-8987
- (21) **Bao Y**, Wang J, Li C, Li P, Wang S, Lin Z. A preliminary study on the antibacterial mechanism of *Tegillarca granosa* hemoglobin by derived peptides and peroxidase activity. *Fish and Shellfish Immunology*, 2016, 51:9-16
- (22) **Bao Y**, Liu X., Zhang W, Cao J, Li W, Li C, Lin Z. Identification of a regulation network in response to cadmium toxicity using blood clam *Tegillarca granosa* as model. *Scientific Reports*, 2016, 6: 35704

社会活动及学术兼职

1. PloS ONE、Fish and Shellfish Immunology 等 SCI 学术期刊审稿人（2010 年-现在）；
2. 国际贝类学会、国际水产学会、中国贝类学会等学会会员（2005 年-现在）；
3. 国家自然科学基金委项目评审专家（2011 年-现在）