PERSONAL DATA

Name: Baoying Guo

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Birth Date: Oct. 14, 1980

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Major: Marine Biology

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EDUCATION AND RESEARCH EXPERIENCE:

12/2012-Present: Associate professor, Zhejiang Ocean University

9/2015-Present: visiting scholar at the genetic department of the University of Georgia in USA

11/2013-11/2014: visiting scholar at Auburn University and the University of Georgia in USA

07/2009-12/2012 Instructor, Zhejiang Ocean University

07/2004-07/2009 Ph. D major in fisheries resource, Huazhong Agriculture University

Ph D thesis: The analysis of genetic diversity and the development of microsatellite markers on *Glyptosternum maculatum* (Regan) in the Yarlung Zangbo River, China

Advisor: Prof. Congxin Xie

09/2000-07/2004 B.S. In Biology Science, Ludong University, Yantai

RESEARCH AND WORK EXPERIENCE:

1. Experienced skills in molecular biology, gene cloning, quantitative PCR, expression, purification, in situ hybridization, western blotting, transgenic;

2. Experienced skills in DNA marker techniques including amplified fragment length polymorphisms (AFLP), microsatellite DNA (SSR) and mitochondrial DNA (mt DNA);
3. Experienced skills in bioinformatics and biostatistics.

RESEARCH FIELD:

1. The analysis of genetic diversity and the development of microsatellite markers on *Glyptosternum maculatum* (Ph D thesis)

   81 AFLP primer combinations in total had been used to select the polymorphic primer combinations in *Glyptosternum maculatum* samples, then five ones selected as polymorphic primers, detected 332 products, 51 of them (15.4%) were polymorphic in at least 1 population, no band was found to be specific for a population. 28 SSR primer pairs had been used to select the polymorphic ones, at the end, 6 polymorphic primer pairs amplified 20 alleles in all 96 *Glyptosternum maculatum* samples. Then we developed 14 SSR markers from *Glyptosternum maculatum* and successfully amplified in other taxa *Pseudechenneis sulcatus* (McClelland).

2. The analysis of genetic diversity and genetic structure of *Sepiella maindroni*, *Octopus variabilis*, *Mytilus coruscus*, *Mytilus edulis* by ISSR,16S RNA, 12S RNA,COI, COIII, and so on.
3. Utilize the microsatellite markers and mt DNA D-LOOP to identify the parentage between recatch individual and breeding parent and evaluate the effect of the releasing primarily as well as to offer the basic foundation for establishing the releasing-evaluating system.
4. Utilize mt DNA genome to analyze the system evolution of Sepiidae species and make them reclassify
5 The colon of economically important gene for *Sepiella maindroni* and large yellow croaker

RESEARCH PROJECT:

1. Organizer of the National Natural Science Foundation of China (NSFC) Project: The research on methods of resource multiplication release effect evaluate for *Sepiella maindroni* based on molecular marker (31101937). (2012-2014).
2. Organizer of the Project international S&T Cooperation Program of China: The joint research on the key techniques of reproductive manipulation and large-scale breeding for cuttlefish in the East China Sea (2014DFT30120). (2014-2017).
3. Organizer of the Project of Zhejiang Province: the identification and functional analysis of interrelated immune miRNA for large yellow croaker (2010R50025). (2011-2014)
4. Organizer of the Project of Zhejiang Province: The research on taxonomy and phylogenetics of cuttlefish family based on mt DNA genome (Y14C19008). (2014-2016)
5. Organizer of the Project of Zhoushan City: The *Sepiella japonica* germplasm resources creative utilization research and demonstration (2013C41001). (2014-2016)
6. Organizer of the Open Fund of Key Laboratory of Marine and Estuarine Fisheries Resources and Ecology, Ministry of Agriculture: the research of developing microsatellite markers and the analysis of genetic diversity for *Mytilus coruscus*(2011-2012)
7. Organizer of the Open Fund of Key Laboratory of Zhejiang Mariculture Research Institute: The research on methods of resource multiplication release effect evaluate for *Sepiella maindroni*(2012-2013)

PEER-REVIEWED PUBLICATIONS

Pengzhi Qi, **Baoying Guo** (joint first authors),

Aiyi Zhu, Changwen WU, Changlin Liu. Identification and comparative analysis of the Pseudosciaena crocea microRNA transcriptome response to poly (I:C) infection using a deep sequencing approach. Fish and shellfish immunology, 2014, 39: 483-491

Hailing Wang, Pengzhi Qi, **Baoying Guo***, Jiji li, Jianyu He, Changwen Wu,

Yasmeen Gul. Molecular characterization and expression analysis of a complement component C3 in large yellow croaker *(Larimichthys crocea*). Fish & Shellfish Immunology, 2015, 42, 272-279

Baoying Guo, Wang W, Qi P, Wu C, Chen Y, Lv Z. Complete mitochondrial genome of the needle cuttlefish *Sepia aculeata* (Sepioidea, Sepiidae). Mitochondrial DNA, 2014, Early Online: 1–2

Wanchao Wang, **Baoying Guo***, Jiji Li, Pengzhi Qi, and Changwen Wu,Complete mitochondrial genome of the common cuttlefish *Sepia pharaonis* (Sepioidea, Sepiidae). Mitochondrial DNA, 2014, 25: 198-199

Wanchao Wang, **Baoying Guo***, Jiji Li, Hailing Wang, Pengzhi Qi, Zhenming Lv, and Changwen Wu. Complete mitochondrial genome of the spineless cuttlefish *Sepiella inermis* (Sepioidea, Sepiidae). Mitochondrial DNA, 2013, Early Online: 1–2)

Jiji Li, Yingying Ye, Changwen Wu, **Baoying Guo***, Genetic diversity and population structure of *Sepiella japonica*(Mollusca: Cephalopoda: Decapoda) inferred by mitochondrial DNA (COI) variations. Biochemical Systematics and Ecology, 2014, 56: 8-15

Yingying Ye, Changwen Wu, **Baoying Guo***, Isolation and characterization of ten polymorphic microsatellite markers for the blue mussel (*Mytilus edulis*). Biochemical Systematics and Ecology, 2014, 54: 5-7

B.-Y. Guo, P.Z. Qi, A.Y. Zhu, Z.M. Lv, W.C. Wang and C.W. Wu. Isolation and characterization of new polymorphic microsatellite markers from the cuttlefish *Sepiella maindroni* (Cephalopoda; Sepiidae). Genetics and Molecular Research, 2013,12(3): 2376-2379)

B.-Y. Guo, C.-W. Wu, C.-L. Liu, A.-Y. Zhu and Y.-Y. Ye. Development of microsatellite markers for *Mytilus coruscus* (Mytilidae), an economically important mussel in the East China Sea. Genetics and Molecular Research, 2013,12 (3): 2670-2673

Yingying Ye, Jiji Li, Changwen Wu, Meiying Xu, **Baoying Guo**.Genetic analysis of mussel (*Mytilus coruscus*) populations on the coast of East China Sea revealed by ISSR-PCR markers. Biochemical Systematics and Ecology, 2012, 45:1–6

Ye Yingying, Xu Meiying, **Guo Baoying**, Wu Changwen. ISSR analysis on genetic structure of four *Mytilus Coruscus* populations. Oceanologia et Limnologia sinica, 2012, 43(1): 113-119 (In Chinese with English abstract)

Zhou Chao, **Guo Baoying**, Wu Changwen, Ye Yingying, Li Jiji, FENG Guangpeng. The genetic diversity of cultured Mytilus Coruscus populations based on sequence analysis of mitochondrial COIII gene. Oceanologia et Limnologia sinica, 2012, 43(2): 249-253 (In Chinese with English abstract)

Ye Yingying, Xu Meiying, **Guo Baoying**, Wu Changwen. Genetic structure and sequence analysis of four populations of *Mytilus Coruscus* in the coastal waters of southern China sea using 16S rRNA. Oceanologia et Limnologia sinica, 2012, 42(2): 376-381(In Chinese with English abstract)

Wu Chang-Wen, Zhou Chao, **Guo Baoying**, Zhang Jianshe. Study on changes in reproductive biology characteristics of *Sepiella Mindroni* (Rochevrune) offshore Zhejiang. Oceanologia et Limnologia sinica, 2012, 43(4):689-694 (In Chinese with English abstract)

Guo Baoying, Qi Pengzhi, Li Jiji, Ye Yingying, Chu Zhangjie, Wu Changwen. The genetic diversity and genetic structure of three cultured *Mytilus edulis* populations. Oceanologia et Limnologia sinica, 2012, 43(1):52-56 (In Chinese with English abstract)

Pang Yujie, Li Jiji, **Guo Baoying***.Genetic Diversity Evaluation on Mitochondrial COGene between Wild and Cultured Populations of *Mytilus edulis*, Journal of Anhui Agri Sci. 2012, 40(14) : 8068-8070 (In Chinese with English abstract)

Guan Chenglin, Li Jiji, **Guo Baoying***. Genetic Diversity Evaluation by the Comparative Analysis on Mitochondrial CO Gene between Wild and Cultured Populations of *Mytilus coruscus*, Journal of Anhui Agri．Sci．2012, 40(13): 7660-7662 (In Chinese with English abstract)

Baoying Guo, Zhou Chao, Lv Zhenming, Li Jiji, Wu Changwen. Genetic diversity of different geographical populations in *Octopus variabilis* revealed by ISSR analysis. Oceanologia et Limnologia sinica,2011,42(6):868-873 (In Chinese with English abstract)

Baoying Guo, Xie Congxin, Qi Pengzhi,Wu Changwen and Deng Yibing. Construction and identification of DNA libraries enriched for microsatellite repeat sequences of *Glyptosternum Maculatum*. Acta Hydrobiologica Sinica,2011,35(6):908-912(In Chinese with English abstract)

Baoying Guo, Xie Congxin, Qi Pengzhi, Wu Changwen. Construction of AFLP Analysis System in Glyptosternum maculatum. Journal of Hydroecology.2011,32(3):127-131(In Chinese with English abstract)

Xu Meiying, Li Jiji, **Guo Baoying**, Lv Zhenming, Zhou Chao, Wu Changwen. Genetic diversity of seven populations of *Octopus Variabilis* in China's coastal waters based on the 12S Rrna and COIII gene analysis. Oceanologia et Limnologia sinica 2011,42(3):387-396(In Chinese with English abstract)

Xu Meiying, Ye Yingying, **Guo Baoying**, Qi Pengzhi, Wu Changwen. Optimizaition of the ISSR system for *Sepiella Mindroni* and analysis of genetic diversity of the cultured population. Oceanologia et Limnologia sinica,2011,42(4):1-6(In Chinese with English abstract)

Li Jiji, **Guo Baoying**, Wu Changwen. Cloning and analysis of the full-length cDNA sequence of Sepiella Maindroni β-actin gene. Oceanologia et Limnologia sinica,2011,42(6): 787-793(In Chinese with English abstract)

Baoying Guo, Congxin Xie, et al. Assessment Of The Genetic Diversity Among *Glyptosternum Maculatum*, An Endemic Fish Of Yarlung Zangbo River, Tibet, China Using SSR Markers, Biochemical Systematics and Ecology, 2010,38, 1116-1121

Baoying Guo, Congxin Xie, et al. Isolation via enrichment and characterization of 14 dinucleotide microsatellite loci in one cat fish, *Glyptosternum maculatum* and cross-amplification in other related taxa., Conservation Genetics, 2009, 10: 547-550

Baoying Guo, Congxin Xie, et al. Development and characterization of 16 polymorphic microsatellite loci in the *Glyptosternum maculatum*, an endemic fish of Yarlung Zangbo River, Tibet, China. Molecular Ecology Resource, 2009, 9, 380-382

Baoying Guo, Congxin Xie, et al. Analysis of genetic diversity in *Glyptosternum maculatum* populations with AFLP markers, Environment Biology of Fish,2009, 85,201-206

Kongyi, **Baoying Guo**, Congxin Xie, et al. The isolation via enrichment and characterization of 9 dinucleotide microsatellite markers in *Pelteobagrus fulvidraco*, Conservation Genetics Resource,2009,1,353-355