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海洋生物系

海洋生物工程系

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教授

副教授

讲师

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学习工作经历:

教育履历

1987.9~1991.7 山东大学微生物系 微生物学专业 理学学士

1991.9~1994.7 卫生部北京生物制品研究所 免疫学专业 医学硕士

1997.9~2001.6 青岛海洋大学海洋生命学院 海洋生物学专业 理学博士

工作经历

1994.7~1996.10 青岛海洋大学海洋生命学院 助教

1996.10~2001.10 青岛海洋大学海洋生命学院 讲师

2001.10~2006.10 中国海洋大学海洋生命科学与技术学部 副教授

2006.10~至今 中国海洋大学海洋生命学院 教授

2003.2~6 德国杜塞尔多夫植物学系 博士后访问

2013.8~2014.1 英国海洋生物协会普利茅斯城堡山实验室 高级访问学者

科研领域描述:

大型红藻的遗传育种、基因组研究与基因解析; 微藻分子生物学与分子生态学研究

代表性成果:

1. Shu Zhang, Zhenghong Sui*, Lianpeng Chang, Jinhua Ma, Fanna Kong, Wei Zhou, Jinguo Wang, Liliang Guo, Huili Geng. Transcriptome de novo assembly sequencing and analysis of the toxic dinoflagellate *Alexandrium catenella* using the Illumina Platform. *Gene* 2014, 537: 285-293. DOI: 10.1016/j.gene.2013.12.041

2. Zhou Wei, Ding Hongye, Sui Zhenghong*, Wang Zhongxia, Wang Jinguo. Development and identification of a SCAR marker related to male gametophyte of *Gracilariopsis lemaneiformis* based on AFLP technique. *Chinese Journal of Oceanology*

- and *Limnology*. 2014,32(3): 522-526. DOI: 10.1007/s00343-014-3209-0
3. Lianpeng Chang, Zhenghong Sui*, Feng Fu, Wei Zhou, Jinguo Wang, Kyoung Ho Kang, Shu Zhang, Jinhua Ma. Relationship between gene expression of UDP-glucose pyrophosphorylase and agar yield in *Gracilariopsis lemaneiformis* (Rhodophyta). *Journal of Applied Phycology*. DOI: 10.1007/s10811-014-0277-7.
4. Feng Fu, Zheng-hong Sui*, Wei Zhou, Jin-guo Wang, Lian-peng Chang, Shu-Fang Ci. UV-irradiation mutation of tetraspores of *Gracilariopsis lemaneiformis* and screening of thermotolerant strains. *Journal of Applied Phycology*. 2014, 26: 647-656. DOI 10.1007/s10811-013-0087-3
5. Wen Ruobing, Sui Zhenghong*, Bao Zhenmin, Zhou Wei, Wang Chunyan. The isolation and characterization of calmodulin gene from *Alexandrium catenella* (Dinoflagellate) and its relationship with cell growth and heat stress. *J. Ocean Univ. China (Oceanic and Coastal Sea Research)*. 2014, 13(2): 290-296. DOI 10.1007/s11802-014-2075-x
6. Zhou W, Hu Y, Sui Z*, Fu F, Wang J, et al. Genome Survey Sequencing and Genetic Background Characterization of *Gracilariopsis lemaneiformis* (Rhodophyta) Based on Next-Generation Sequencing. *PLoS ONE* 2013, 8(7): e69909. DOI 10.1371/journal.pone.0069909 -863.
7. Wei Zhou, Zhenghong Sui *, Wang Jinguo, Chang Lianpeng. Optimization of growth conditions for all of phases of life history of *Gracilariopsis lemaneiformis* (Rhodophyta) with an orthogonal design. *Aquaculture*. 2013, 392–395: 98–105. DOI 10.1016/j.aquaculture.2013.02.008.
8. Renata Brzozowska, Zhenghong Sui, Kyoung Ho Kang. Testing the usability of sea mussel (*Mytilus* sp.) for the improvement of seawater quality-An experimental study. *Ecological Engineering*. 2012, 39: 133-137. DOI:10.1016/j.ecoleng.2011.10.017.
9. Huang Jian, Wen Ruobing, Bao Zhenmin, Sui Zhenghong*, Sun Ningbo, Kang Kyoung Ho. Applications of immunomagnetic bead and immunofluorescent flow cytometric techniques for the quantitative detection of HAB microalgae. *Chinese Journal of Oceanology and Limnology*. 2012, 30 (3): 433-439 doi:10.1007/s00343-012-1208-6.
10. Kyoung Ho Kang and Zhenghong Sui *. Removal of eutrophication factors and heavy metal from a closed cultivation system using the macroalgae, *Gracilaria* sp. (Rhodophyta) . *Chinese Journal of Oceanology and Limnology*. 2010, 28 (6): 1127-1130, DOI: 10.1007/s00343-010-9902-8.
11. Pang QQ, Sui ZH*, Kang KH, Kong FN, Zhang XC. Application of SSR and AFLP to the analysis of genetic diversity in *Gracilariopsis lemaneiformis* (Rhodophyta). *J. Appl. Phycol.* 2010, 22: 607-612. DOI 10.1007/s10811-009-9500-3
12. Min Li, Zhenghong Sui*, Kyoung Ho Kang, Xuecheng Zhang, Ming Zhu and Binlun Yan. Cloning and analysis of the galactose-1-phosphate uridylyltransferase (galt) gene of *Gracilariopsis lemaneiformis* (Rhodophyta) and correlation between gene expression and agar synthesis. *J Appl Phycol.*, 2010, 22 (2): 157-164. DOI 10.1007/s10811-009-9435-8
13. Huang Jian, Liang Shan, Sui Zhenghong*, Mao Yunxiang, Guo Hao. Cloning and characterization of proliferating cell nuclear antigen gene of *Alexandrium catenella* (Dinoflagellate) with respect to cell growth. *Acta Oceanol. Sin.*, 2010, 29, (3): 90-96. DOI: 10.1007/s13131-010-0040-0
14. Xueying Ren, Zhenghong Sui, Yuxiang Mao, Xiaonan Zang, Di Xu, Xuecheng Zhang. Cloning and characterization of two types of ubiquitin genes from *Gracilariopsis lemaneiformis* (Gracilariales, Rhodophyta). *Journal of Applied Phycology*. 2009; 21(3): 273 – 278 DOI 10.1007/s10811-008-9361-1
15. Sun Guohua, Zhang Xuecheng, Sui Zhenghong*, Mao Yunxiang. Inhibition of pds gene expression by using RNA interference approach in *Dunaliella salina* (Chlorophyta). *Marine Biotechnology*. 2008, 10(3): 219-226. DOI 10.1007/s10126-007-9056-7

Curriculum Vitae

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Experiences:

Education

Ph.D: Sept. 1997-June 2001

Major: Marine Biology Ocean University of Qingdao

M. Sc.: Sept. 1991-July 1994

Major: Immunology

National Vaccine and Serum Institute

B. Sc.: Sept. 1987-July 1991

Department of Microbiology Shandong University

Research

July 1994- Present: Ocean University of China

February 2003-June 2003: Institute of Botany, Heinrich-Heine-Universität Duesseldorf, visiting scholar

August 2013-January 2014: The Laboratory, Citadel Hill, Marine Biological Association of the UK, Plymouth, UK, senior visiting scholar

Research Interests

Genetic breeding, genomics and gene dissection of red algae; Molecular biology of microalgae and molecular ecology

Selected publication:

1. Shu Zhang, Zhenghong Sui*, Lianpeng Chang, Jinhua Ma, Fanna Kong, Wei Zhou, Jinguo Wang, Liliang Guo, Huili Geng. Transcriptome de novo assembly sequencing and analysis of the toxic dinoflagellate *Alexandrium catenella* using the Illumina Platform. *Gene* 2014, 537: 285–293. DOI: 10.1016/j.gene.2013.12.041
2. Zhou Wei, Ding Hongye, Sui Zhenghong*, Wang Zhongxia, Wang Jinguo. Development and identification of a SCAR marker related to male gametophyte of *Gracilariopsis lemaneiformis* based on AFLP technique. *Chinese Journal of Oceanology and Limnology*. 2014,32(3): 522-526. DOI: 10.1007/s00343-014-3209-0
3. Lianpeng Chang, Zhenghong Sui*, Feng Fu, Wei Zhou, Jinguo Wang, Kyoung Ho Kang, Shu Zhang, Jinhua Ma. Relationship between gene expression of UDP-glucose pyrophosphorylase and agar yield in *Gracilariopsis lemaneiformis* (Rhodophyta). *Journal of Applied Phycology*. DOI: 10.1007/s10811-014-0277-7.
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6. Zhou W, Hu Y, Sui Z*, Fu F, Wang J, et al. Genome Survey Sequencing and Genetic Background Characterization of *Gracilariopsis lemaneiformis* (Rhodophyta) Based on Next-Generation Sequencing. *PLoS ONE* 2013, 8(7): e69909. DOI 10.1371/journal.pone.0069909 -863.
7. Wei Zhou, Zhenghong Sui *, Wang Jinguo, Chang Lianpeng. Optimization of growth conditions for all of phases of life history of *Gracilariopsis lemaneiformis* (Rhodophyta) with an orthogonal design. *Aquaculture*. 2013, 392–395: 98–105. DOI 10.1016/j.aquaculture.2013.02.008.
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15. Sun Guohua, Zhang Xuecheng, Sui Zhenghong*, Mao Yunxiang. Inhibition of pds gene expression by using RNA interference approach in *Dunaliella salina* (Chlorophyta). *Marine Biotechnology.* 2008, 10(3): 219-226. DOI 10.1007/s10126-007-9056-7

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