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教师风采——庄昀筠

发布时间：2017-09-27 [阅读： 一 次 | 添加： 祁华]



基本资料：

庄昀筠，女，博士，副教授，硕士生导师
主要从事海洋浮游生物分子生态学及功能基因组学研究工作。

联系方式：

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教育背景：

2007/8 - 2013/5：美国康涅狄格大学（University of Connecticut），海洋学，博士
2003/9 - 2007/6：中国海洋大学，生物科学，学士

工作经历：

2017/8 - 今：中国海洋大学，环境科学与工程学院，“青年英才工程”，副教授
2014/4 - 2017/3：中国海洋大学，环境科学与工程学院，博士后
2011/5 - 2011/7：美国克雷格·文特尔研究所（J. Craig Venter Institute），访问学者

科研兴趣：

1. mRNA剪接前导序列在海洋桡足类中的普适性与特异性。
2. 利用组学技术研究浮游生物对环境变化的响应及适应机制：1) 浮游植物对营养盐的吸收同化机制、细胞周期及其调控；2) 桡足类对环境污染物的分子响应机制。
3. 利用DNA条形码技术研究：1) 浮游动植物生物多样性；2) 桡足类现场食物多样性及其摄食习性。

科研项目：

1. 国家自然科学基金青年基金项目：mRNA剪接前导序列在海洋桡足类中的普适性与特异性研究（31502167），2016.1-2018.12，21万元，主持。
2. 中国博士后科学基金面上项目：海洋桡足类反式剪接前导RNA的鉴定及表达分析（2015M582137），2015.11-2017.3，5万元，主持。

3.国家重点研发计划项目课题：海洋典型生态系统储碳过程的调控机制（2016YFA0601202），2016.7-2021.6，468万元，参加。

4.国家自然科学基金青年基金项目：西北太平洋典型海域浮游桡足类昼夜垂直移动及其现场食物多样性研究（41506131），2016.1-2018.12，22万元，参加。

5.国家自然科学基金海外及港澳学者合作研究基金项目：利用分子生态学方法研究环境污染物对海洋桡足类的毒理效应（41328009），2014.1-2015.12，20万元，参加。

招生计划：

每年拟招收2名硕士研究生，欢迎有志于浮游生物分子生态学及功能基因组学研究的同学联系报考。

代表性论文：

1. **Zhuang Y**, Yang F, Xu D, Chen H, Zhang H*, Liu G*. Spliced leader-based analyses reveal the effects of polycyclic aromatic hydrocarbons on gene expression in the copepod *Pseudodiaptomus poplesia*. *Aquatic Toxicology*. 2017. 183, 114-126.
2. Yang F, Xu D, **Zhuang Y**, Yi X, Huang Y, Chen H, Lin S, Campbell DA, Sturm NR, Liu G*, Zhang H*. Spliced leader RNA trans-splicing discovered in copepods. *Scientific reports*. 2015. 5:17411.
3. **Zhuang Y**, Zhang H, Hannick L, Lin S*. Metatranscriptome profiling reveals versatile N-nutrient utilization, CO₂ limitation, oxidative stress, and active toxin production in an *Alexandrium fundyense* bloom. *Harmful Algae*. 2015. 42, 60-70.
4. Lin S*, Cheng S, Song B, Zhong X, Lin X, Li W, Li L, Zhang Y, Zhang H, Ji Z, Cai M, **Zhuang Y**, Shi X, Lin L, Wang L, Wang Z, Liu X, Yu S, Zeng P, Hao H, Zou Q, Chen C, Li Y, Wang Y, Xu C, Meng S, Xu X, Wang J, Yang H, Campbell DA, Sturm NR, Dagenais-Bellefeuille S, Morse D, 2015. The *Symbiodinium kawaguti* genome illuminates dinoflagellate gene expression and coral symbiosis. *Science* 350, 691-694.
5. **Zhuang Y**, Zhang H, Lin S*. Polyadenylation of 18S ribosomal RNA in algae. *Journal of Phycology*. 2013. 49(3): 570-579.
6. **Zhuang Y**, Zhang H, Lin S*. Cyclin B gene and its cell cycle-dependent differential expression in the toxic dinoflagellate *Alexandrium fundyense* Atama Group I/Clade I. *Harmful Algae*. 2013. 26: 71-79.
7. Lu W, **Zhuang Y**, Zhang H, Lin X, Lin S*. DNA barcoding species in *Alexandrium tamarense* complex using ITS and proposing designation of five species. *Harmful Algae*. 2014. 21: 100-113.
8. Zhang H*, **Zhuang Y**, Gill J, Lin S*. Proof that dinoflagellate spliced leader (DinoSL) is a useful hook for fishing dinoflagellate transcripts from mixed microbial samples: *Symbiodinium kawaguti* as a case study. *Protist*. 2013. 164(4): 510-527.
9. Kuo RC, Zhang H*, **Zhuang Y**, Hannick L, Lin S*. Transcriptomic study reveals widespread spliced leader trans-splicing, Short 5'-UTRs and potential complex carbon fixation mechanisms in the Euglenoid Alga *Eutreptiella* sp. *PLoS One* 2013. 8(4), e60826.
10. Miranda LN, **Zhuang Y**, Zhang H*, Lin S*. Phylogenetic analysis guided by intragenomic SSU rDNA polymorphism refines classification of “*Alexandrium tamarense*” species complex. *Harmful Algae*. 2012. 16:35-48.
11. Chan CX, Blouin NA, **Zhuang Y**, Zäuner S, Prochnik SE, Lindquist E, Lin S, Benning C, Lohr M, Yarish C, Gantt E, Grossman AR, Lu S, Müller K, Stiller JW, Brawley SH, Bhattacharya D*. *Porphyra* (Bangiophyceae) Transcriptomes provide insights into red algal development and metabolism. *Journal of Phycology*. 2012. 48:1328-42.
12. Lin S*, Zhang H, **Zhuang Y**, Tran B, Gill J. Spliced leader-based metatranscriptomic analyses lead to recognition of hidden genomic features in dinoflagellates. *Proc Natl Acad Sci USA*. 2010. 107(46):20033-20038.

国际会议报告：

1. **Zhuang Y**, Zhang H, Huang Y, Liu G, Lin S. Using 454 pyrosequencing to study in situ diet of marine copepod *Calanus sinicus*. PICES Annual Meeting: Change and Sustainability of the North Pacific, 2015, Qingdao. *Best Oral Presentation* awarded by Biological Oceanography Committee of PICES.
2. **Zhuang Y**, Wang W, Chen H, Huang Y, Pan Y, Zhang H, Liu G. Metabarcoding reveals the effects of asian dust on the taxonomic composition of a northwest pacific plankton assemblages. 13th Annual Meeting Asia Oceania Geosciences Society, 2016, Beijing. (Oral presentation)
3. **Zhuang Y**, Zhang H and Lin S. Polyadenylation of 18S ribosomal RNA in algae. 51th Annual Northeast Algal Symposium. 2012. Schoodic Point, ME, USA.
4. **Zhuang Y**, Zhang H and Lin S. 454 pyrosequencing for eukaryotic microbes: dinoflagellates as a focus. 50th Annual Northeast Algal Symposium. 2011. Woods Hole, MA, USA. (Oral presentation)
5. **Zhuang Y**, Zhang H and Lin S. Expression profiling of mitotic cyclin in toxic dinoflagellate, *Alexandrium fundyense*. 14th International Conference on Harmful Algae, 2010. Hersonissos, Crete, Greece.
6. **Zhuang Y** and Lin S. Regulatory network of cell cycle in marine phytoplankton. 63rd Phycological Society of America annual meeting with Plant Biology, 2009. Honolulu, HI. (Oral presentation)

7. **Zhuang Y**, Zhang H and Lin S. Regulatory pathways of cell division cycle and signal transduction in dinoflagellates (*Karlodinium* and *Amphidinium*): insights from full-length cDNA sequencing. International Plant & Animal Genome Conference XVI, 2008. San Diego, CA.

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EDUCATION

Ph. D., Oceanography, University of Connecticut, USA, 2013

B. S., Biological Sciences, Ocean University of China, 2007

RESEARCH EXPERIENCE

2017/8-present Associate professor, College of Environmental Science and Engineering, Ocean University of China

2014/4-2017/3 Postdoc research associate, College of Environmental Science and Engineering, Ocean University of China

2011/5-2011/7 Visiting Scholar, J. Craig Venter Institute (Rockville, MD, USA)

RESEARCH INTEREST

Molecular ecology and functional genomics of marine plankton, mainly focus on,

1. Copepod mRNA spliced leader: ubiquity, evolution and utility.
2. Molecular mechanism of plankton response to environmental changes: 1) nutrient uptake and assimilation, cell cycle in phytoplankton; 2) copepod response to pollutants.
3. DNA barcoding and plankton biodiversity, biodiversity of in situ diet of copepods.

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