



一. 姓名

何帮翔

二. 教育背景

2011.09-2015.06 安徽大学（211）生物技术专业 本科

2015.09-2018.06 中国海洋大学（985&211）海洋生物学专业 硕士

2018.09-2021.12 中国科学院大学（中科院海洋研究所）海洋生物学专业 博士

三. 教学方面

无

四. 科研方面

研究方向：藻类分子生理与发育调控

发表论文：

- 1) **He B**, Hou L, Dong M, Shi J, Huang X, Ding Y, Cong X, Zhang F, Zhang X, Zang X (2018) Transcriptome analysis in *Haematococcus pluvialis*: Astaxanthin induction by high light with acetate and Fe²⁺. *International Journal of Molecular Sciences* **19** (1):175
- 2) **He B**, Hou L, Zhang F, Cong X, Wang Z, Guo Y, Shi J, Jiang M, Zhang X, Zang X (2020) Ultrastructural changes of *Haematococcus pluvialis* (Chlorophyta) in process of astaxanthin accumulation and cell damage under condition of high light with acetate. *Algae* **35** (3):253-262
- 3) **He B**, Niu J, Xie X, Wang G (2021) Development of free-living sporangial filaments regulated by light and culture density in *Neopyropia yezoensis*. *Algal Research* **58**:102378
- 4) **He B**, Gu W, Wang L, Zheng Z, Shao Z, Huan L, Zhang B, Ma Y, Niu J, Xie X, Wang G (2021) RNA-seq between asexual archeospores and meiosis-related conchospores in *Neopyropia yezoensis* using smart-seq2. *Journal of Phycology* **57**:1648-1658
- 5) Zheng Z, **He B**, Xie X, Wang G (2021) Co-suppression in *Pyropia yezoensis* (Rhodophyta) reveals the role of PyLHCI in light harvesting and generation switch. *Journal of Phycology* **57** (1):160-171
- 6) Cong X, Zang X, Dong M, Wang Z, **He B**, Hou L, Wei X, Zhang F, Shang M, Yangzong Z (2020) Accumulation of phytoene and astaxanthin and related genes expression in *Haematococcus pluvialis* under sodium acetate stress. *Aquatic Biology* **29**:155-164
- 7) Ma Y, **He B**, Wang X, He L, Niu J, Huan L, Lu X, Xie X, Wang G (2021) Differential proteomic analysis by iTRAQ reveals the growth mechanism in *Pyropia yezoensis* mutant. *Algal Research* **58**:102420
- 8) Hou L-l, Liu F, Zang X, Zhang X, **He B**, Ding Y, Song X, Xiao D, Wang H (2017) Cloning and transcription analysis of the nitrate reductase gene from *Haematococcus pluvialis*. *Biotechnology letters* **39** (4):589-597
- 9) Shi J, Zang X, Cong X, Hou L, **He B**, Ding Y, Dong M, Sun D, Guo Y, Zhang F (2019) Cloning of nitrite reductase gene from *Haematococcus pluvialis* and transcription and enzymatic activity analysis at different nitrate and phosphorus concentration. *Gene* **697**:123-

- 10) Ding Y, Zang X, Shi J, Hou L, **He B**, Dong M, Cong X, Cao X, Liu Z, Song X (2019) cDNA cloning of *gs*, *gogat*, and *gdh* from *Haematococcus pluvialis* and transcription and enzyme level analysis in different nitrogen concentration. *Journal of Applied Phycology* **31** (1):183-190
- 11) Huang X, Zang X, Wu F, Jin Y, Wang H, Liu C, Ding Y, **He B**, Xiao D, Song X (2017) Transcriptome sequencing of *Gracilaria lemaneiformis* to analyze the genes related to optically active phycoerythrin synthesis. *PLoS One* **12** (1):e0170855
- 12) 杨佳丽, 冯泽中, 牛建峰, 顾文辉, **何帮翔**, 刘雪华, 邵之卓, 郑阵兵, 王旭雷, 王广策 (2021) 低盐、高温诱导的条斑紫菜 (*Pyropia yezoensis*) 病烂机制研究. *海洋与湖沼* **52** (05):1214-1223

参与的研究项目:

国家重点研发计划“蓝色粮仓科技创新”重点专项:

重要养殖藻类种质创制与高效扩繁: 2018YFD0901500 (参与研究)

国家自然科学基金:

条斑紫菜孢子体和配子体 CO₂ 浓缩机制 (CCM) 的比较分析: 41876163 (参与研究)

脱落酸介导的条斑紫菜抗氧化胁迫响应机制解析: 41776150 (参与研究)

条斑紫菜跨类囊体膜质子动力势与光合电子传递的调控机制: 41876160 (参与研究)

国家现代农业产业技术体系:

藻类体系: CARS-50 (参与研究)

五. 获得荣誉

无