

# 水产学报 2024 年 8 月 第 48 卷 第 8 期

## 目 次

### · 综述 ·

- 轮虫线粒体基因组研究进展 ..... 何润泽, 周利民, 高炳森, 程双怀 (089601)  
核酸适体的筛选及其在养殖动物病原检测中的应用进展  
..... 李鹏飞, 张帅帅, 刘明珠, 黄 静, 王 剑, 钟明兰, 欧武阁, 何琼玉, 韦红玲, 余 庆 (089402)  
功能性渔用材料的研究现状与展望  
..... 张凤仪, 石建高, 张 健, 张文阳, 李亚婕, 赵 亮, 曹贻儒, 吕昌麟, 王淑婷 (089703)

### · 研究论文 ·

- 蓝色七彩神仙鱼虹彩细胞呈色相关基因的发掘 ..... 李中军, 温 彬, 马腾飞, 刘 鑫, 高建忠, 陈再忠 (089604)  
罗氏沼虾 *RXR* 基因克隆及其对蜕皮相关基因的调控  
..... 姜 群, 高炜峰, 许文静, 纪 鹏, 顾舒文, 张颖杰, 高晓建, 张晓君 (089105)  
日本沼虾 *Bax* 基因克隆及其在低氧胁迫过程中的作用 ..... 赵倩倩, 孙西超, 郑 诚, 薛 程, 孙盛明 (089606)  
三角帆蚌谷胱甘肽硫转移酶基因克隆表达及其类胡萝卜素转运功能分析  
..... 颜 玲, 钟婧妍, 袁永斌, 张 瑶, 胡宏辉, 陆婷婷, 白志毅 (089607)  
人工诱导星康吉鳗卵巢发育主要组织脂质代谢分析  
..... 王桂香, 李 慷, 刘如聪, 姜之信, 巴旭冰, 宋宗诚, 刘利平 (089608)  
大型围栏适养海水鱼类肠道组织学比较  
..... 张家荣, 高云涛, 高云红, 李明月, 秦宏宇, 谢 婷, 关长涛, 贾玉东 (089609)  
基于环境 DNA 技术的南极欺骗岛海域鱼类物种多样性 ..... 俞晔伟, 刘 洋, 朱国平, 王丛丛 (089310)  
基于环境 DNA metabarcoding 的舟山及其邻近海域鱼类空间分布格局的初步研究  
..... 张浩博, 王晓艳, 陈 治, 钟兰萍, 高天翔 (089311)  
稀有种和常见种对鳌江口红树林大型底栖动物群落多样性的贡献  
..... 方学河, 陈 威, 胡成业, 章 凯, 周泽宇, 张丽源, 水柏年 (089312)  
凡纳滨对虾生物絮团养殖系统中泡沫体积与生物絮团及环境的关系 ..... 宋逸飞, 张家松, 李 贤, 董登攀, 宋协法 (089613)  
紫贻贝肽对细菌生物被膜诱导贻贝稚贝附着能力的影响 ..... 周中盛, 贺楚晗, 林 倩, 梁 翔, 杨金龙 (089614)  
高碳水化合物饲料添加精氨酸对杂交鳢的生长性能、抗氧化酶活性、肝脏免疫反应及糖代谢相关基因的影响  
..... 李培佳, 陈 冰, 李 敏, 彭 凯, 胡俊茹, 黄 文, 曹俊明, 赵红霞 (089615)  
联苯菊酯对皱纹盘鲍血细胞胞外陷阱形成的影响 ..... 化少蒙, 陈丽竹, 杨顶珑, 吕晓静, 刘相全, 何金霞, 李 旋 (089416)

# JOURNAL OF FISHERIES OF CHINA

Vol. 48, No. 8, August, 2024

## CONTENTS

### • ROUNDUP •

- Research progress in the mitochondrial genome of species in rotifer ..... HE Runze, ZHOU Limin, GAO Bingmiao, CHENG Shuanghuai(089601)  
Screening of aptamers and their application progress in the detection of pathogenic microorganisms in cultured animals ..... LI Pengfei, ZHANG Shuaishuai, LIU Mingzhu, HUANG Jing, WANG Jian, ZHONG Minglan, OU Wuge, HE Qiongyu, WEI Hongling, YU Qing(089402)  
Research status and prospect of functional fishery materials ..... ZHANG Fengyi, SHI Jiangao, ZHANG Jian, ZHANG Wenyang, LI Yajie, ZHAO Liang, CAO Yiru, LÜ Changlin, WANG Shuting(089703)

### • RESEARCH ARTICLES •

- Exploration of candidate genes related to iridophore presenting blue skin in discus fish (*Sympodus haraldi*) ..... LI Zhongjun, WEN Bin, MA Tengfei, LIU Xin, GAO Jianzhong, CHEN Zaizhong(089604)  
Cloning and effect of *RXR* on molting-related genes expression in *Macrobrachium rosenbergii* ..... JIANG Qun, GAO Weifeng, XU Wenjing, JI Peng, GU Shuwen, ZHANG Yingjie, GAO Xiaojian, ZHANG Xiaojun(089105)  
Cloning of *Bax* gene in *Macrobrachium nipponense* and its role in hypoxia stress ..... ZHAO Qianqian, SUN Xichao, ZHENG Cheng, XUE Cheng, SUN Shengming(089606)  
Cloning and expression of glutathione S-transferase *pi* gene and analysis of carotenoid transport function in *Hyriopsis cumingii* ..... YAN Ling, ZHONG Jingyan, YUAN Yongbin, ZHANG Yao, HU Honghui, LU Tingting, BAI Zhiyi(089607)  
Analysis of lipid metabolism in main tissues of artificially induced ovarian development tissues of *Conger myriaster* ..... WANG Guixiang, LI Kang, LIU Rucong, JIANG Zhixin, BA Xubing, SONG Zongcheng, LIU Liping(089608)  
Comparison of fish intestinal histology in offshore aquaculture net pen ..... ZHANG Jiarong, GAO Yuntao, GAO Yunhong, LI Mingyue, QIN Hongyu, XIE Ting, GUAN Changtao, JIA Yudong(089609)  
Species diversity of fish in Deception Island waters based on environmental DNA technology ..... YÜ Yewei, LIU Yang, ZHU Guoping, WANG Congcong(089310)  
Preliminary study on spatial distribution pattern of fish in Zhoushan and its adjacent waters based on environmental DNA metabarcoding ..... ZHANG Haobo, WANG Xiaoyan, CHEN Zhi, ZHONG Lanping, GAO Tianxiang(089311)  
Contributions of rare and common species to the species diversity of the mangrove macrobenthic community in Aojiang Estuary ..... FANG Xuehe, CHEN Wei, HU Chengye, ZHANG Kai, ZHOU Zeyu, ZHANG Liyuan, SHUI Bonian(089312)  
Relationship among foam volume, environment parameters and biofloc situation in biofloc system in *Litopenaeus vannamei* culture ..... SONG Yifei, ZHANG Jiasong, LI Xian, DONG Dengpan, SONG Xiefa(089613)  
Effects of *Mytilus galloprovincialis* peptide on settlement of mussel juveniles induced by bacterial biofilms ..... ZHOU Zhongsheng, HE Chuhan, LIN Qian, LIANG Xiao, YANG Jinlong(089614)  
Effects of high carbohydrate diets supplemented with arginine on growth performance, antioxidant activity, immune response and genes related to glucose metabolism in hybrid snakehead [*Channa maculata* (♀) × *C. argus* (♂)] ..... LI Peijia, CHEN Bing, LI Min, PENG Kai, HU Junru, HUANG Wen, CAO Junming, ZHAO Hongxia(089615)  
Effects of bifenthrin on the formation of extracellular traps in hemocytes of *Haliotis discus hannai* ..... HUA Shaomeng, CHEN Lizhu, YANG Dinglong, LÜ Xiaojing, LIU Xiangquan, HE Jinxia, LI Xuan(089416)