

目 次

· 综述 ·

- CTP:磷酸胆碱胞苷酰转移酶 α (CCT α) 在膜脂生成和脂质代谢中的作用及调控研究进展 艾庆辉, 战 蕊 (069601)
水产养殖中温室气体排放的核算方法及其影响因素 梁贺君, 韩冠荣, 许竞翔, 张锦辉, 李灿锋, 隋恒寿 (069302)

· 研究论文 ·

- 中国花鲈 IgM 重链 ($IgMH$) 和 $MHC\text{II}\beta$ 基因的克隆及表达分析 雷丽娜, 高 谦, 王 伟, 孙兆盛, 罗 璇, 刘其根 (069403)
黄姑鱼低温耐受性的全基因组关联分析 金 鲤, 刘炳舰, 竺奇慧, 张万昌, 李完波, 王志勇, 高天翔, 徐冬冬 (069604)
 $sox9$ 基因在中华鳖雄性性腺分化中的功能 梁 肖, 金 琳, 李 攀, 杨邦赛, 钱国英, 葛楚天, 孙 伟 (069605)
高温胁迫对哲罗鲑鳃和肝脏组织病理学及血清生化指标的影响 张 潭, 佟广香, 徐 欢, 闫 婷, 卫明亮, 张婷婷, 匡友谊 (069106)
高温对缢蛏生理代谢和抗氧化水平的影响 李 春, 刘 琦, 陈宇宽, 袁 立, 牛东红 (069107)
低氧胁迫对瘤背石磺能量代谢、氧化应激和免疫功能的影响 张小明, 土志涵, 肖海明, 饶榕城, 陈锡林, 钱 畅, 沈和定 (069108)
基于 eDNA 的长江流域重庆段鱼类多样性空间格局 张玉凤, 周鑫鑫, 李清华, 张家铭, 沈彦君 (069309)
长江中上游(含洞庭湖)外来鱼类入侵风险评估 田盼盼, 邓华堂, 王导群, 俞立雄, 高 雷, 刘绍平, 陈大庆, 段辛斌, 王 珂, 田辉伍 (069310)
淡水养殖中华鲟与长江鲟幼鱼海水渗透调节能力比较 王谱渊, 冷小茜, 任飞翔, 仲 嘉, 程佩琳, 张立宁, 乔新美, 杜 浩 (069111)
矛尾复虾虎鱼的繁殖生物学 许星鸿, 亓 鲁, 吴 桐, 刘 顺, 李铁铮, 赵子言, 朱 龙, 林春梅, 徐国成 (069112)
三种诱导长牡蛎“海大 2 号”四倍体途径的比较 程 庚, 张海宁, 梁园鑫, 徐成勋, 李 琪 (069613)
菲律宾蛤仔雌核发育二倍体与单倍体染色体制备及核型 黎 强, 聂鸿涛, 王 滨, 周 贺, 霍忠明, 闫喜武 (069614)
三角帆蚌在高温胁迫下对不同紫色土的适应性 梅 静, 杨清麟, 唐晓琪, 刘 烨, 李艳红, 余小波, 吴正理 (069615)
南海太阳长棘海星的早期发育过程 周梓华, 吕意华, 郑承志, 贾后磊, 卢楚谦, 耿志强, 熊小飞, 娄全胜 (069616)
曝气扰动下浮萍生物量对附着硅藻生长的影响 潘恒丰, 王小冬, 车 轩, 王 洪, 李一鸣, 程翔宇, 刘兴国 (069617)
台湾海峡纺锤水蚤属一新种——黄氏纺锤水蚤 龚之顿, 郭东晖 (069118)

JOURNAL OF FISHERIES OF CHINA

Vol. 49, No. 6, June, 2025

CONTENTS

• ROUNDUP •

- CTP: phosphocholine cytidylyltransferase alpha (CCT α) - advances on its role and regulation in membrane lipid biogenesis and lipid metabolism AI Qinghui, ZHAN Rui(069601)

- Accounting methods and influencing factors of greenhouse gas emissions in aquaculture LIANG Hejun, HAN Guanrong, XU jingxiang, ZHANG Jinhui, LI Canfeng, SUI Hengshou(069302)

• RESEARCH ARTICLES •

- Molecular cloning and expression analysis of *IgMH* and *MHC II β* genes in the spotted sea bass (*Lateolabrax maculatus*) LEI Lina, GAO Qian, WANG Wei, SUN Zhaosheng, LUO Zhang, LIU Qigen(069403)

- Genome-wide association analysis of low temperature tolerance in *Nibea albiflora* JIN Xun, LIU Bingjian, ZHU Qihui, ZHANG Wanchang, LI Wanbo, WANG Zhiyong, GAO Tianxiang, XU Dongdong(069604)

- The role of *sox9* gene in male gonadal differentiation of *Pelodiscus sinensis* LIANG Xiao, JIN Lin, LI Pan, YANG Bangsai, QIAN Guoying, GE Chutian, SUN Wei(069605)

- Effects of high-temperature stress on the histopathology of gills and liver tissues and serum biochemical indicators of *Hucho taimen* ZHANG Tan, TONG Guangxiang, XU Huan, YAN Ting, WEI Mingliang, ZHANG Tingting, KUANG Youyi(069106)

- Effects of high temperature on the physiological metabolism and antioxidant levels of *Sinonovacula constricta* LI Chun, LIU Qi, CHEN Yukuan, YUAN Li, NIU Donghong(069107)

- Effects of hypoxic stress on energy metabolism, oxidative stress and immune function in *Onchidium reevesii* ZHANG Xiaoming, TU Zhihan, XIAO Haiming, RAO Rongcheng, CHEN Xilin, QIAN Chang, SHEN Heding(069108)

- Spatial patterns of fish diversity in the Chongqing section of the Yangtze River Basin based on eDNA ZHANG Yufeng, ZHOU Xinxin, LI Qinghua, ZHANG Jiaming, SHEN Yanjun(069309)

- Risk assessment of invasive fish species in the middle and upper reaches of the Yangtze River (including Dongting Lake) TIAN Panpan, DENG Huatang, WANG Daoqun, YU Lixiong, GAO Lei, LIU Shaopin, CHEN Daqing, DUAN Xinbin, WANG Ke, TIAN Huiwu(069310)

- Comparative analysis of osmoregulatory capacity in freshwater-cultured juveniles of *Acipenser sinensis* and *A. dabryanus* WANG Puyuan, LENG Xiaoqian, REN Feixiang, ZHONG Jia, CHENG Peilin, ZHANG Lining, QIAO Xinmei, DU Hao(069111)

- Reproductive biology of *Synechogobius hasta* XU Xinghong, QI Lu, WU Tong, LIU Shun, LI Tiezheng, ZHAO Ziyan, ZHU Long, LIN Chunmei, XU Guocheng(069112)

- Comparison of three tetraploid induction pathways in the Pacific oyster (*Crassostrea gigas*) "Haida No.2" CHENG Geng, ZHANG Haining, LIANG Yuanxin, XU Chengxun, LI Qi(069613)

- Chromosome preparation and karyotype analysis of gynogenetic diploids and haploids in *Ruditapes philippinarum* LI Qiang, NIE Hongtao, WANG Bin, ZHOU He, HUO Zhongming, YAN Xiwu(069614)

- Adaptive responses of *Hyriopsis cumingii* to different purple soils under high-temperature stress MEI Jing, YANG Qinglin, TANG Xiaoqi, LIU Yang, LI Yanhong, YU Xiaobo, WU Zhengli(069615)

- The early developmental process of *Acanthaster solaris* in the South China Sea ZHOU Zihua, LÜ Yihua, ZHENG Chengzhi, JIA Houlei, LU Chuqian, GENG Zhiqiang, XIONG Xiaofei, LOU Quansheng(069616)

- Effects of duckweed (*Lemna minor*) biomass on epiphytic diatom colonization under aeration disturbance PAN Hengfeng, WANG Xiaodong, CHE Xuan, WANG Hong, LI Yiming, CHENG Xiangyu, LIU Xingguo(069617)

- Acartia huangi* sp. nov., a new species of *Acartia* from the Taiwan Strait GONG Zhidi, GUO Donghui(069118)