

水产学报 2023 年 4 月 第 47 卷 第 4 期

目 次

· 综述 ·

硬骨鱼类鳃黏膜免疫相关分子的研究进展 李肖霞, 齐志涛, 迟 爽, 乔 帷 (049401)

· 研究论文 ·

越冬期体色变异红罗非鱼差异表达 miRNA 的鉴定 王兰梅, 朱文彬, 傅建军, 罗明坤, 董在杰 (049602)

低氧胁迫下中华绒螯蟹血淋巴细胞的转录组学

..... 候利波, 陆银月, 任秋霖, 孔祥会, 朱 雷, 顾 伟, 孟庆国 (049103)

亚硝态氮胁迫对斑节对虾(非洲群体)氧化应激、能量代谢和渗透调节的影响

..... 刘吉丹, 刘洪军, 樊 英, 唐学玺, 王晓璐, 王友红, 盖春蕾, 叶海斌 (049604)

pH、盐度和温度对海蜇耗氧率和排氨率的影响 张 硕, 陈 岱, 刘家林, 孙 文, 张俊波 (049105)

基于集成学习的大西洋热带水域大眼金枪鱼渔情预报 宋利明, 任士雨, 张 敏, 隋恒寿 (049306)

新疆叶尔羌河流域 4 种裂腹鱼多变量形态学对比分析

..... 刘 鸿, 牛建功, 胡江伟, 海萨·艾也力汗, 咸玉兰, 贺疆滔, 蔡林钢, 张人铭 (049107)

试论数字赋能助力水域生态牧场建设 杨红生, 江春嬉, 张立斌, 李富超, 许 强, 任焕萍, 林承刚 (049508)

运动强度对罗氏沼虾运动行为和能量代谢的影响

..... 李江涛, 邱小龙, 黄菲菲, 邱晓桐, 方俊超, 梁日深, 李清清, 林 蠲, 吕晓静 (049609)

中国鲎幼鲎形态性状与体重的通径分析及异速生长研究 李银康, 钟金香, 鲍虞园, 应紫薇, 颜晓勇 (049110)

大菱鲆利用水解鱼蛋白和牛蛙蛋白的差异 刘晋士, 卫育良, 徐后国, 朱永祥, 梁萌青 (049611)

日粮中碳水化合物类型对多鳞白甲鱼生长性能、体组成及健康状况的影响

..... 钟明智, 朱凌威, 吉 红, 武文一, 苟妮娜 (049612)

凝结芽孢杆菌对镉暴露下鲤肝脏镉含量、抗氧化能力及炎症反应的影响

..... 常绪路, 陈永艳, 康美如, 冯军厂, 张建新 (049113)

克氏原螯虾细菌性病原分离鉴定及血清免疫因子变化

..... 蒋国民, 李金龙, 刘 丽, 何志刚, 邹 利, 王余德, 吴启藩, 王冬武, 邓时铭 (049414)

产业组织模式对海水鱼养殖生产者药物使用行为的影响 杨正勇, 徐 辉, 彭乐威 (049615)

高铁肌红蛋白对腌腊鱼脂质氧化与挥发性风味的影响

..... 顾赛麒, 王涣淇, 冯 媛, 黎君鸿, 周振毅, 鲍嵘斌, 戴王力, 陈玉峰, 周绪霞, 丁玉庭 (049816)

JOURNAL OF FISHERIES OF CHINA

Vol. 47, No. 4, April, 2023

CONTENTS

• ROUNDUP •

Progress in research of the immune-related molecules in gill mucosa of teleost fish

..... LI Xiaoxia, QI Zhitao, CHI Shuang, QIAO Guo(049401)

• RESEARCH ARTICLES •

Identification of differentially expressed miRNA involved in skin color variation in red tilapia during overwintering

..... WANG Lanmei, ZHU Wenbin, FU Jianjun, LUO Mingkun, DONG Zaijie(049602)

Transcriptome analysis of *Eriocheir sinensis* hemocytes in response to hypoxia

..... HOU Libo, LU Yinyue, REN Qiulin, KONG Xianghui, ZHU Lei, GU Wei, MENG Qingguo(049103)

Effects of acute nitrite stress on oxidative stress, energy metabolism and osmotic regulation of *Penaeus monodon*

..... LIU Jidan, LIU Hongjun, FAN Ying, TANG Xuexi, WANG Xiaolu, WANG Youhong, GAI Chunlei, YE Haibin(049604)

Effect of pH, salinity and temperature on the oxygen consumption rate and ammonia excretion rate of *Rhopilema esculenta*

..... ZHANG Shuo, CHEN Dai, LIU Jialin, SUN Wen, ZHANG Junbo(049105)

Fishing ground forecasting of bigeye tuna (*Thunnus obesus*) in the tropical waters of Atlantic Ocean based on ensemble learning

..... SONG Liming, REN Shiyu, ZHANG Min, SUI Hengshou(049306)

Comparative analysis of multivariate morphology of four species of Schizothoracinae in the Yarkand River basin of Xinjiang

..... LIU Hong, NIU Jiangong, HU Jiangwei, HAYSA Ayelhan, XIAN Yulan, HE Jiangtao, CAI Lingang, ZHANG Renming(049107)

Digital empowerment promotes the construction of aquatic ecological ranching

..... YANG Hongsheng, JIANG Chunxi, ZHANG Libin, LI Fuchao, XU Qiang, REN Huaping, LIN Chenggang(049508)

Effects of locomotor intensities on the locomotor behavior and energy metabolism of freshwater prawn *Macrobrachium resenbergeri*

..... LI Jiangtao, QIU Xiaolong, HUANG Feifei, QIU Xiaotong, FANG Junchao,
..... LIANG Rishen, LI Qingqing, LIN Li, LÜ Xiaojing(049609)

Path analysis and allometric growth of morphological characters and body mass of juvenile *Tachypleus tridentatus*

..... LI Yinkang, ZHONG Jinxiang, BAO Yuyuan, YING Ziwei, XIE Xiaoyong(049110)

Comparative study on the utilization of protein hydrolysates of fish and *Rana catesbeiana* by turbot (*Scophthalmus maximus*)

..... LIU Jinshi, WEI Yuliang, XU Houguo, ZHU Yongxiang, LIANG Mengqing(049611)

Effects of dietary carbohydrate types on growth performance, body composition and health status of juvenile *Onychostoma macrolepis*

..... ZHONG Mingzhi, ZHU Lingwei, JI Hong, WU Wenyi, GOU Nina(049612)

Effects of *Bacillus coagulans* on the cadmium content, antioxidant capacity and inflammatory response in the liver of *Cyprinus carpio*

under cadmium exposure CHANG Xulu, CHEN Yongyan, KANG Meiru, FENG Junchang, ZHANG Jianxin(049113)

Isolation and identification of bacterial pathogens from *Procambarus clarkii* and study on variations in serum immune factors

..... JIANG Guomin, LI Jinlong, LIU Li, HE Zhigang, ZOU Li, WANG Yude, WU Qifan, WANG Dongwu, DENG Shiming(049414)

Effect of industrial organization mode on drug use behavior of mariculture producers

..... YANG Zhengyong, XU Hui, PENG Lewei(049615)

Effects of metmyoglobin on lipid oxidation and volatile flavor of cured fish

..... GU Saiqi, WANG Huanqi, FENG Yuan, LI Junhong, ZHOU Zhenyi, BAO Rongbin,
..... DAI Wangli, CHEN Yufeng, ZHOU Xuxia, DING Yuting(049816)