

中国水产科学

Zhongguo Shuichan Kexue

第 24 卷 第 3 期 2017 年 5 月

目 次

研究论文

| | |
|--|-------|
| 从连续到偶发：中华鲟在葛洲坝下发生小规模自然繁殖..... | (425) |
| 吴金明, 王成友, 张书环, 张辉, 杜浩, 刘志刚, 危起伟 | |
| 基于线粒体 Cyt b 基因的虾夷扇贝群体遗传结构分析..... | (432) |
| 倪守胜, 杨钰, 柳淑芳, 庄志猛 | |
| 偏分离条件下牙鲆生长性状 QTL 的主成分定位..... | (440) |
| 李宁, 张丽怡, 李停, 李艳红, 刘海金, 杨润清 | |
| 刀鲚水通道蛋白 1 的分子克隆及高盐作用下的表达分析..... | |
| 王美垚, 杨健, 徐跑, 徐钢春, 徐东坡, 尤洋, 刘凯, 段金荣, 周彦锋, 方弟安, 张敏莹, 俞振飞 | (449) |
| 青虾 Ran 基因的克隆、表达及其在卵巢发育中的功能..... | |
| 卜宗元, 傅洪拓, 孙盛明, 乔慧, 金舒博, 张文宜, 龚永生, 蒋速飞, 熊贻伟, 吴滟 | (459) |
| 高温胁迫下仿刺参表观遗传调控相关基因的表达特征..... | (470) |
| 李尚俊, 孙国华, 李雪燕, 李根瑞, 杨建敏, 杨爽 | |
| 星斑川鲽雌核发育二倍体、单倍体与普通二倍体及杂交胚胎发育的比较..... | |
| 段会敏, 田永胜, 李文龙, 李振通, 陈张帆, 唐江, 成美玲, 郭华, 孙宗哲, 陈松林 | (477) |
| 钝缓锦蛤繁殖周期和胚胎发育..... | (488) |
| 巫旗生, 文宇, 曾志南, 王晓清, 宁岳, 祁剑飞, 罗娟, 贾圆圆 | |
| 虾夷扇贝动态能量收支生长模型..... | (497) |
| 张继红, 吴文广, 刘毅, 蔺凡, 王巍, 牛亚丽 | |
| 盐度对杂交石斑鱼受精卵孵化和卵黄囊仔鱼形态及活力的影响..... | (507) |
| 黄建盛, 陈刚, 张健东, 王忠良, 汤保贵, 周晖 | |
| 微胶囊饲料对马氏珠母贝育珠性能、生长基因和矿化基因表达的影响..... | |
| 段会敏, 田永胜, 李文龙, 李振通, 陈张帆, 唐江, 成美玲, 郭华, 孙宗哲, 陈松林 | (516) |
| 饲料蛋白质水平对拟穴青蟹幼蟹生长性能、体成分和消化酶活性的影响..... | |
| 董兰芳, 童潼, 张琴, 许明珠, 苏琼, 聂振平, 杨家林, 谢达, 林凤 | (524) |
| 生物絮团技术对异育银鲫生长性能和抗性的影响..... | (533) |
| 张明明, 徐晨, 赵志刚, 王资生, 仇明, 李强, 乔帽 | |
| 水温、盐度和溶氧对红鳍东方鲀幼鱼游泳能力的影响..... | (543) |
| 于晓明, 崔闻达, 陈雷, 邢彬彬, 任恒, 张国胜 | |
| 5 种鱼类标志对草鱼临界游泳速度的影响..... | (550) |
| 俞立雄, 段辛斌, 陈大庆, 罗宏伟, 刘绍平, 高雷 | |
| 海州湾及邻近海域日本枪乌贼时空分布的异质性..... | (558) |
| 都煜, 徐宾铎, 薛莹, 任一平, 张崇良 | |
| 基于碳、氮稳定同位素技术的大亚湾紫海胆食性分析..... | (566) |
| 莫宝霖, 秦传新, 陈丕茂, 黎小国, 冯雪, 佟飞, 袁华荣 | |
| 基于 Stella 的江苏近海海域生态足迹模拟分析..... | (576) |
| 王子超, 龚敏 | |
| pH 和氮磷比对微小原甲藻和青岛大扁藻生长竞争的影响..... | (587) |
| 葛红星, 陈钊, 李健, 冯艳艳, 刘思涛, 赵法箴 | |
| 津冀地区养殖三疣梭子蟹大量死亡的病原和病理分析..... | (596) |
| 王印庚, 杨洋, 张正, 李彬, 廖梅杰, 邓威, 孟繁林 | |
| 中国罗非鱼主养区无乳链球菌的分子流行特征及其传播方式..... | |
| 张德锋, 袁伟, 可小丽, 刘志刚, 曹建萌, 卢迈新, 王淼, 衣萌萌 | (606) |
| WSSV 与 IHHNV 竞争对虾鳃细胞膜受体的研究..... | (615) |
| 王筱珊, 胡智博, 费荣梅 | |
| 麻痹性贝类毒素在栉孔扇贝体内的代谢轮廓..... | (623) |
| 邴晓菲, 吴海燕, 王群, 李清云, 郭萌萌, 国佼, 翟毓秀, 谭志军 | |
| 基于点格局的中西太平洋金枪鱼围网中鲣的空间格局特征..... | (633) |
| 杨晓明, 戴小杰, 王学昉, 田思泉 | |
| 基于正交试验方法的四片式虾拖网结构参数优化..... | (640) |
| 周爱忠, 张勋, 张禹, 王鲁民 | |
| 鱼类早期发育阶段异速生长及核酸、消化酶变化的研究进展..... | (648) |
| 张云龙, 张海龙, 王凌宇, 顾贝易, 樊启学 | |

期刊基本参数: CN11-3446/S*1994*b*A4*232*zh*P* ¥60.00*1500*26*2017-03

Journal of Fishery Sciences of China

Vol. 24 No. 3 May 2017

Contents

| | |
|--|--|
| From continuous to occasional: Small-scale natural reproduction of Chinese sturgeon occurred in the Gezhouba spawning ground, Yichang, China | WU Jinming, WANG Chengyou, ZHANG Shuhuan, ZHANG Hui, DU Hao, LIU Zhigang, WEI Qiwei (430) |
| Population-genetics analysis of the Japanese scallop <i>Patinopecten yessoensis</i> based on mitochondrial Cyt b gene | NI Shousheng, YANG Yu, LIU Shufang, ZHUANG Zhimeng (439) |
| Mapping QTLs for principle components of growth traits using distorted markers in Japanese flounder <i>Paralichthys olivaceus</i> | LI Ning, ZHANG Liyi, LI Ting, LI Yanhong, LIU Haijin, YANG Runqing (448) |
| Molecular cloning and expression analysis of aquaporin-1 from the <i>Coilia nasus</i> under high-salinity conditions | WANG Meiyao, YANG Jian, XU Pao, XU Gangchun, XU Dongpo, YOU Yang, LIU Kai, DUAN Jinrong, ZHOU Yanfeng, FANG Di'an, ZHANG Minying, YU Zhenfei (458) |
| Molecular characterization and developmental expression of Ras-related nuclear protein in the oriental river prawn <i>Macrobrachium nipponense</i> and the effects of RNA interference on ovarian maturation | BU Zongyuan, FU Hongtuo, SUN Shengming, QIAO Hui, JIN Shubo, ZHANG Wenqi, GONG Yongsheng, JIANG Sufei, XIONG Yiwei, WU Yan (469) |
| Characteristics of epigenetic regulation of related genes under high-temperature stress in sea cucumber <i>Apostichopus japonicus</i> | LI Shangjun, SUN Guohua, LI Xueyan, LI Genrui, YANG Jianmin, YANG Shuang (476) |
| Comparison of gynogenetic diploid and haploid embryonic development and hybridization of starry flounder <i>Platichthys stellatus</i> | DUAN Huimin, TIAN Yongsheng, LI Wenlong, LI Zhentong, CHEN Zhangfan, TANG Jiang, CHENG Meiling, GUO Hua, SUN Zongzhe, CHEN Songlin (487) |
| The reproductive cycle and embryonic development of the bivalve mollusk <i>Tapes conspersus</i> | WU Qisheng, WEN Yu, ZENG Zhinan, WANG Xiaoqing, NING Yue, QI Jianfei, LUO Juan, JIA Yuanyuan (496) |
| A dynamic energy budget (DEB) growth model for Japanese scallop <i>Patinopecten yessoensis</i> cultured in China | ZHANG Jihong, WU Wenguang, LIU Yi, LIN Fan, WANG Wei, NIU Yali (506) |
| Effects of salinity on fertilized eggs hatch, morphology and survival activity of yolk sac larvae of hybrid grouper (<i>Epinephelus fuscoguttatus</i> ♀× <i>Epinephelus polyphekadion</i> ♂) | HUANG Jiansheng, CHEN Gang, ZHANG Jiandong, WANG Zhongliang, TANG Baogui, ZHOU Hui (515) |
| Effects of replacement of dietary microalgae with microencapsulated diet on pearl production traits gene expression related to growth and mineralization in pearl oyster <i>Pinctada fucata martensii</i> | WANG Qingheng, LIAO Yongshan, YANG Chuangye, HAO Ruijuan, DENG Yuewen, DU Xiaodong (523) |
| Effect of dietary protein level on growth performance, body composition, and digestive enzyme activities in green mud crab (<i>Scylla paramamosain</i>) juveniles | DONG Lanfang, TONG Tong, ZHANG Qin, XU Mingzhu, SU Qiong, NIE Zhenping, YANG Jialin, XIE Da, LIN Feng (532) |
| Effects of biofloc technology on growth performance and disease resistance of gibel carp, <i>Carassius auratus gibelio</i> | ZHANG Mingming, XU Chen, ZHAO Zhigang, WANG Zisheng, QIU Ming, LI Qiang, QIAO Guo (542) |
| Effects of water temperature, salinity, and dissolved oxygen on the swimming ability of Japanese pufferfish, <i>Takifugu rubripes</i> juveniles | YU Xiaoming, CUI Wenda, CHEN Lei, XING Binbin, REN Heng, ZHANG Guosheng (549) |
| Effect of five tagging methods on critical swimming speed of grass carp, <i>Ctenopharyngodon idellus</i> | YU Lixiong, DUAN Xinbin, CHEN Daqing, LUO Hongwei, LIU Shaoping, GAO Lei (557) |
| Analysis of temporal and spatial heterogeneity of Japanese squid (<i>Loligo japonica</i>) in Haizhou Bay and adjacent waters | DU Yu, XU Binduo, XUE Ying, REN Yiping, ZHANG Chongliang (565) |
| Feeding habits of the purple sea urchin <i>Heliocidaris crassispina</i> based on stable carbon and nitrogen isotope analysis | MO Baolin, QIN Chuanxin, CHEN Pimao, LI Xiaoguo, FENG Xue, TONG Fei, YUAN Huarong (575) |
| Simulation of the marine ecological footprint of Jiangsu coastal waters using STELLA model | WANG Zichao, CHAO Min (586) |
| Effect of pH level and N/P ratio on growth and competition of the microalgae <i>Tetraselmis helgolandica</i> and <i>Prorocentrum minimum</i> | GE Hongxing, CHEN Zhao, LI Jian, FENG Yanyan, LIU Sitao, ZHAO Fazhen (595) |
| Etiological and pathological analyses of massive mortality in cultured crab <i>Portunus trituberculatus</i> along the coasts of Tianjin and Hebei, China | WANG Yingeng, YANG Yang, ZHANG Zheng, LI Bin, LIAO Meijie, DENG Wei, MENG Fanlin (605) |
| Molecular characteristics and transmission of <i>Streptococcus agalactiae</i> in a major tilapia culturing area of China | ZHANG Defeng, YUAN Wei, KE Xiaoli, LIU Zhigang, CAO Jianmeng, LU Maixin, WANG Miao, YI Mengmeng (614) |
| A preliminary study of WSSV and IHHNV competition for receptors on cell membrane of prawn gill tissue | WANG Xiaoshan, HU Zhibo, FEI Rongmei (622) |
| Metabolic profile of paralytic shellfish toxin in scallop <i>Chlamys farreri</i> | BING Xiaofei, WU Haiyan, WANG Qun, LI Qingyun, GUO Mengmeng, GUO Jiao, ZHAI Yuxiu, TAN Zhijun (632) |
| Spatial distribution characters of the purse-seine skipjack fishery in the western and central Pacific based on point-pattern analysis | YANG Xiaoming, DAI Xiaojie, WANG Xuefang, TIAN Siqian (639) |
| Optimization of the structural parameters for four-panel shrimp trawl nets based on orthogonal experimental design | ZHOU Aizhong, ZHANG Xun, ZHANG Yu, WANG Lumin (647) |
| Allometric growth and ontogenetic changes in nucleic acids and digestive enzymes during the early life stage in fish species: A review | ZHANG Yunlong, ZHANG Hailong, WANG Lingyu, GU Beiyi, FAN Qixue (656) |