



ISSN 2095-1388
CODEN DHDXAW

大连海洋大学 学报

JOURNAL OF DALIAN OCEAN UNIVERSITY



2020 2

第35卷 Vol. 35
第2期 No. 2

DOLU



大连海洋大学学报
第35卷 第2期 2020年4月

目 次

· 综述 ·

中国现代化海洋牧场的研究与建设

陈勇 (147)

辽宁省淡水土著鱼类开发利用研究进展

骆小年, 赵兴文, 段友健 (155)

鱼类性别决定的遗传基础及性别控制技术在水产养殖中的应用

喻杰, 杨弘 (161)

· 研究论文 ·

饲料中添加不同海藻对刺参幼参生长、免疫、消化及营养组成的影响

白伟, 吴香莹, 左然涛, 常亚青 (169)

壳聚糖纳米颗粒对红鳍东方鲀生长、免疫酶及免疫基因的影响

王荣月, 劳锦程, 王重阳, 李睿鑫, 谢红国, 叶仕根, 黎睿君, 尹恒, 刘娟 (177)

光照对白刺参、青刺参和紫刺参生长、消化及免疫的影响

李静, 刘佳亮, 曹学彬, 王福辰, 李君华, 郑龙华, 郭治诚, 孙路平, 刘石林 (184)

菲律宾蛤仔中国莱州群体与朝鲜新义州群体杂交子代早期生长发育

李金龙, 刘越, 车宗豪, 田园, 刘杰, 闫喜武, 霍忠明 (190)

中间球海胆抗病家系的筛选及其生长性能分析

江会杰, 张伟杰, 陈隆, 刘杰豪, 吕雪峰, 王中, 刘雷, 常亚青 (197)

3种宠物龟“灰白甲”病组织病理学研究

鲍晓颖, 庞澈, 潘连德, 张晓雨 (205)

中国东北山区虹鳟三倍体幼鱼生长特性研究

柳鹏, 高春山, 杜晓燕, 刘慧吉, 陈伟强, 胡国宏, 徐有国 (213)

葛氏鲈塘鳢耐受完全结冰缺氧环境的能力及生理生化响应

柴龙会, 黄璞祎, 暴旭 (218)

大豆 β -伴球蛋白对黄河鲤头肾 TLR2/NF- κ B p65 及其炎性因子基因表达的影响

殷海成, 黄进, 贾峰, 郑鑫 (223)

大连典型滩涂养殖区沉积物中抗生素协同重金属和环境因素对抗性基因分布的影响

刘萱, 赵慧敏, 王华, 刘璐, 王诗慧, 孙琦 (229)

刺参多功能表皮生长因子 6 (*meg6*) cDNA 克隆及在肠再生过程中的表达分析

陈雷, 姚锋, 唐爽, 郭良勇, 王珊, 方蕾, 秦玉雪, 尹增强, 侯林 (239)

异育银鲫肿瘤坏死因子 α 蛋白的原核表达、纯化及促凋亡活性分析

崔正一, 胡光耀, 姜新宇, 王佳, 于新然, 乔帽, 李振, 李强, 张家林 (247)

三疣梭子蟹 C-型凝集素 *CTL5* 基因的克隆及在病原刺激下的免疫应答

阎德平, 吕建建, 题兴斌, 张文, 张云滨, 宋柳, 刘萍 (253)

硫氰酸红霉素原位杀藻的生态学效应

王雪莹, 毕相东, 董少杰, 尤宏争, 刘克明, 戴伟, 李宛津 (260)

浮式水槽养殖大口黑鲈对湖泊水环境及其容量的影响

刘剑羽, 任文强, 王恒林, 张丽, 周彦峰, 徐航涛, 尤洋 (266)

大连港海域油含量时空变化特征分析

黄妙芬, 刘杨, 邢旭峰, 王忠林, 李占强 (273)

响水库浮游生物渔业资源分析

白禄军, 张子媛, 王利, 周波波, 李毅超, 邵旭东, 苏珊, 刘青 (280)

渭河河流生态系统完整性评价体系的构建

宋蒙蒙, 田爽, 卢奥然, 殷旭旺, 徐宗学 (288)

融合注意力机制和 BiLSTM+CRF 的渔业标准命名实体识别

程名, 于红, 冯艳红, 任媛, 付博, 刘巨升, 杨鹤 (296)

基于生物学特征的辽河口鮈资源开发与保护

叶金清, 柳圭泽, 袁秀堂, 杨青 (302)

圆弧角优化对单通道方形养殖池流场特性的影响研究

桂劲松, 张倩, 任效忠, 刘鹰, 马真, 史宪莹, 许条建, 薛博茹 (308)

辽东湾多锚单片张网网目尺寸选择性研究

刘宏超, 张国胜, 李显森, 庄鑫, 殷雷明, 李泓泉, 滕文良, 邢彬彬 (317)

Journal of Dalian Ocean University

Volume 35 Number 2 Apr. 2020

Contents

• Roundup •

Research and construction of modern marine ranching in China: a review	..... CHEN Yong (147)
Exploitation and utilization of freshwater indigenous fishes in Liaoning Province: a review	..... LUO Xiaonian, ZHAO Xingwen, DUAN Youjian (155)
Genetic basis of sex determination and application of sex control in fish: a review	..... YU Jie, YANG Hong (161)

• Articles •

Effects of dietary sea weed levels on growth, immunity, digestion and nutritional composition of juvenile sea cucumber <i>Apostichopus japonicas</i> Selenka	..... BAI Wei, WU Xiangying, ZUO Rantao, CHANG Yaqing (169)
Effects of chitosan nanoparticles on the growth, immune enzyme, and genes of tiger puffer <i>Takifugu rubripes</i>	..... WANG Rongyue, LAO Jincheng, WANG Chongyang, LI Ruixin, XIE Hongguo, YE Shigen, LI Ruijun, YIN Heng, LIU Juan (177)
Effects of light intensity on growth, digestion and immunity of green, white and purple sea cucumber <i>Apostichopus japonicus</i> Selenka	..... LI Jing, LIU Jialiang, CAO Xuebin, WANG Fuchen, LI Junhua, ZHENG Longhua, GUO Zhicheng, SUN Luping, LIU Shilin (184)
Early growth and development of hybrid Manila clam <i>Ruditapes philippinarum</i> cultured between Laizhou population in China×Simniju population in north Korea	..... LI Jinlong, LIU Yue, CHE Zonghao, TIAN Yuan, LIU Jie, YAN Xiwu, HUO Zhongming (190)
Selection of disease-resistant family and evaluation of growth performance in sea urchin <i>Strongylocentrotus intermedius</i>	..... JIANG Huijie, ZHANG Weijie, CHEN Long, LIU Jiehao, LÜ Xuefeng, WANG Zhong, LIU Lei, CHANG Yaqing (197)
Histopathology of 'grey-white clinical symptoms of carapace' in three species of pet turtles	..... BAO Xiaoying, PANG Wei, PAN Liande, ZHANG Xiaoyu (205)
Growth performance of juvenile triploid rainbow trout <i>Oncorhynchus mykiss</i> in mountain area of northeast China	..... LIU Peng, GAO Chunshan, DU Xiaoyan, LIU Huiji, CHEN Weiqiang, HU Guohong, XU Youguo (213)
Tolerant ability and physiological and biochemical responses of Chinese sleeper <i>Percottus glenii</i> to icing up and hypoxia environment	..... CHAI Longhui, HUANG Puyi, BAO Xu (218)
Effects of β -conglycinin on expression of TLR2/NF- κ B p65 and inflammatory-related genes in head kidney of juvenile common carp <i>Cyprinus carpio haematopterus</i>	..... YIN Haicheng, HUANG Jin, JIA Feng, ZHENG Xin (223)
Impacts of heavy metals and environmental factors assisted antibiotics on antibiotic resistance genes in sediments in Dalian typical intertidal mudflat culture areas	..... LIU Xuan, ZHAO Huimin, WANG Hua, LIU Lu, WANG Shihui, SUN Qi (229)
cDNA cloning and expression of multiple epidermal growth factor 6 (<i>megf6</i>) gene in sea cucumber <i>Apostichopus japonicus</i> during intestine regeneration	..... CHEN Lei, YAO Feng, TANG Shuang, GUO Liangyong, WANG Shan, FANG Lei, QIN Yuxue, YIN Zengqiang, HOU Lin (239)
Prokaryotic expression, purification and pro-apoptotic activity analysis of TNF- α in allogynogenetic silver crucian carp <i>Carassius auratus gibelio</i>	..... CUI Zhengyi, HU Guangyao, JIANG Xinyu, WANG Jia, YU Xinran, QIAO Guo, LI Zhen, LI Qiang, ZHANG Jialin (247)
Cloning and response to pathogen stimulation of C-type lectin gene <i>CTL5</i> in swimming crab <i>Portunus trituberculatus</i>	..... YAN Deping, LÜ Jianjian, TI Xingbin, ZHANG Wen, ZHANG Yunbin, SONG Liu, LIU Ping (253)
Ecological effects of erythromycin thiocyanate on inhibiting cyanobacteria in situ	..... WANG Xueying, BI Xiangdong, DONG Shaojie, YOU Hongzheng, LIU Keming, DAI Wei, LI Wanjin (260)
Influence of largemouth bass <i>Micropterus salmoides</i> farming in floating troughs on water quality in a closed lake	..... LIU Jianyu, REN Wenqiang, WANG Henglin, ZHANG Li, ZHOU Yanfeng, XU Hangtao, YOU Yang (266)
Analysis of temporal and spatial variation in petroleum content in sea waters at Dalian port	..... HUANG Miaofen, LIU Yang, XING Xufeng, WANG Zhonglin, LI Zhanqiang (273)
Analysis of plankton community and fishery resources in Xiangshui Reservoir	..... BAI Lujun, ZHANG Ziyuan, WANG Li, ZHOU Bobo, LI Yichao, SHAO Xudong, SU Shan, LIU Qing (280)
Establishment of evaluation system of an ecosystem integrity in Weihe River	..... SONG Mengmeng, TIAN Shuang, LU Aoran, YIN Xuwang, XU Zongxue (288)
Fishery standard named entity recognition with integrated attention mechanism and BiLSTM+CRF	..... CHENG Ming, YU Hong, FENG Yanhong, REN Yuan, FU Bo, LIU Jusheng, YANG He (296)
Exploitation and protection of mullet <i>Liza haematocheila</i> stocks in Liaohe Estuary based on biological characteristics	..... YE Jinqing, LIU Guize, YUAN Xiutang, YANG Qing (302)
Influence of arc angle optimization in single-drain square aquaculture tanks on flow field characteristics	..... GUI Jinsong, ZHANG Qian, REN Xiaozhong, LIU Ying, MA Zhen, SHI Xianying, XU Tiaojian, XUE Boru (308)
Mesh size selectivity of a multi-anchored monolithic trap in Liaodong Bay	..... LIU Hongchao, ZHANG Guosheng, LI Xiansen, ZHUANG Xin, YIN Leiming, LI Hongquan, TENG Wenliang, XING Binbin (317)