



中国·大连  
DALIAN CHINA

ISSN 2095-1388  
CODEN DSHXEV

# 大连海洋大学 学报

JOURNAL OF DALIAN OCEAN UNIVERSITY

2012 6

第27卷 Vol.27  
第6期 No. 6  
卷终



万方数据

# 大连海洋大学学报

第 27 卷 第 6 期 2012 年 12 月

## 目 次

- 虾夷马粪海胆硬脂酰辅酶 A 去饱和酶和蛋白酪氨酸磷酸酶基因的克隆与表达 ..... 丁君, 孙巍, 常亚青 (489)
- 鳜胰岛素样生长因子-II cDNA 基因的克隆与表达特征 ..... 刘俊, 赵金良, 张敏, 代威 (495)
- 双齿围沙蚕 Hsp70 cDNA 基因的克隆及序列分析 ..... 李颖, 周一兵, 万良, 赵欢, 杨大佐 (502)
- 草鱼呼肠孤病毒 VP5 蛋白的表达与纯化 ..... 方珍珍, 景宏丽, 江育林, 张利峰, 张旻, 李华 (508)
- 历山中国大鲵线粒体片段序列的测定及其遗传差异研究 ..... 黄立群, 仪慧兰, 崔松林, 郭军 (513)
- 循环水养殖模式下养殖密度对青石斑鱼生长及生理指标的影响 ..... 张曦文, 吴垠, 贺茹婧, 苏延明, 刘琦 (518)
- 环境因子对毛蚶排遗和泥沙净化的影响 ..... 杨凤, 刘丹, 于倩, 于帅, 杨坤, 刘婷, 闫喜武 (523)
- 不同颜色光照对日本蟳摄食与生长的影响 ..... 刘涵, 姜玉声, 穆攀, 王双耀, 迟建卫, 刘胥, 赵静 (528)
- 外源蛋白酶对虹鳟生长和肠道组织结构的影响 ..... 张娟娟, 李小勤, 冷向军, 韩志英, 张飞鸽 (534)
- 翅碱蓬对滩涂湿地沉积物中重金属 Cu、Pb 的累积吸收 ..... 何洁, 陈旭, 王晓庆, 刘长发, 周一兵 (539)
- 坛紫菜赤腐病与拟油壶菌病并发病的初步研究 ..... 刘一萌, 马家海, 文茜 (546)
- 建鲤急性肝损伤模型的建立及当归提取物的保肝和抗氧化作用研究 ..... 曹丽萍, 贾睿, 丁炜东, 社金梁, 殷国俊 (551)
- 怀头鮈胃黏膜蛋白酶分离提纯条件的筛选 ..... 刘伟, 曾真, 战培荣 (558)
- 海带岩藻黄素对油脂氧化的抑制作用研究 ..... 任丹丹, 李景娟, 李佰磊, 陈倩, 汪秋宽 (564)
- 天津海域春夏季鱼卵、仔稚鱼的种类组成与数量分布 ..... 谷德贤, 宓慧菁, 刘茂利, 刘国山 (567)
- 立方体人工鱼礁背涡流的三维涡结构 ..... 李晓磊, 穆曙光, 陈勇, 张瑞瑾 (572)
- 基于图像处理技术的扇贝尺寸及位置自动识别 ..... 郭常有, 曹广斌, 韩世成, 蒋树义 (578)
- 基于水下三维结构光的视觉测量方法研究 ..... 李擎, 何东钢, 李响 (583)

CN 21-1575/S \* 1980 \* b \* A4 \* 104 \* zh \* P \* ¥ 15.00 \* 600 \* 18 \* 2012-12

# Journal of Dalian Ocean University

Volume 27 Number 6

Dec. 2012

## Contents

- Cloning and expression of stearoyl-coenzyme A desaturase and protein tyrosine phosphatase 1B genes from sea urchin *Strongylocentrotus intermedius* ..... DING Jun, SUN Wei, CHANG Ya-qing (489)
- Cloning and expression of full-length cDNA of insulin-like growth factor-II in mandarin fish *Siniperca chuatsi* ..... LIU Jun, ZHAO Jin-liang, ZHANG Min, et al. (495)
- Cloning and analysis of Hsp70 cDNA from *Perinereis aibuhitensis* (Annelida: Polychaeta) ..... LI Ying, ZHOU Yi-bing, WAN Liang, et al. (502)
- Expression and purification of VP5 protein in grass carp reovirus ..... FANG Zhen-zhen, JING Hong-li, JIANG Yu-lin, et al. (508)
- Nucleotide sequence differences in some mitochondrial DNA regions in wild Chinese giant salamander *Andrias davidianus* in Lishan region ..... HUANG Li-qun, YI Hui-lan, CUI Song-lin, et al. (513)
- The effects of stocking density on growth and physiological indices of grouper *Epinephelus awoara* in recirculating aquaculture ..... ZHANG Xi-wen, WU Yin, HE Ru-jing, et al. (518)
- Influences of environmental factors on excrement and sand purification in blood clamp *Scapharca subcrenata* ..... YANG Feng, LIU Dan, YU Qian, et al. (523)
- Effects of color light on feeding and growth in Asian swimming crab *Charybdis japonica* ..... LIU Han, JIANG Yu-sheng, LUAN Pan, et al. (528)
- Effects of supplemental protease on growth and intestinal tissue structure in rainbow trout *Oncorhynchus mykiss* ..... ZHANG Juan-juan, LI Xiao-qin, LENG Xiang-jun, et al. (534)
- The absorption and accumulation of heavy metals Cu, and Pb in tidal wetland sediments by plant *Suaeda heteroptera* Kitag ..... HE Jie, CHEN Xu, WANG Xiao-qing, et al. (539)
- Simultaneous infection by red rot and olpidiops disease in laver *Porphyra haitanensis* ..... LIU Yi-meng, MA Jia-hai, WEN Qian (546)
- Establishment of the acute hepatic injury model and antioxidant effects of extract from Angelica sinensis in common carp *Cyprinus carpio* var. Jian ..... CAO Li-ping, JIA Rui, DING Wei-dong, et al. (551)
- The screening of proteinase isolation and purification condition in gastric mucosa of northern sheatfish *Silurus soldatovi* ..... LIU Wei, ZENG Zhen, ZHAN Pei-rong (558)
- Antioxidative activity to lipids by fucoxanthin from kelp ..... REN Dan-dan, LI Jing-juan, LI Bai-lei, et al. (564)
- Species composition and abundance of fish eggs, larvae, and juveniles in Tianjin sea area during spring and summer ..... GU De-xian, MI Hui-jing, LIU Mao-li, et al. (567)
- The 3D vortex structure of cube artificial reef's wake vortex ..... LI Xiao-lei, LUAN Shu-guang, CHEN Yong, et al. (572)
- Automatic measurement of size and location in scallop based on image processing ..... GUO Chang-you, CAO Guang-bin, HAN Shi-cheng, et al. (578)
- A study on visual measurement method based on underwater 3-dimension structured light ..... LI Qing, HE Dong-gang, LI Xiang (583)