



科学出版社

ISSN 1003-1111

CN 21-1110/S

水产科学

FISHERIES SCIENCE

第32卷 第3期 Vol.32 NO.3
2013年3月 Mar. 2013

ISSN 1003-1111

03>

9 771003 111130

辽宁省水产学会 主办
科学出版社 出版

水产科学

第32卷第3期 2013年3月

目 次

· 研究与应用 ·

- 氮和硅对三角褐指藻细胞增殖的交互作用研究 蔡卓平,段舜山,朱红惠(125)
青蟹呼肠弧病毒对拟穴青蟹的致病性研究
..... 蔡小辉,彭银辉,刘旭佳,游出超,苏琼,聂振平,董兰芳,杨志会,王志成(130)
硫酸安普霉素对凡纳滨对虾生长、血清生化指标的影响及在组织内的残留
..... 孙智武,黄燕华,王国霞,曹俊明,陈冰,赵红霞,周婷婷,莫文艳(136)
利用深井海水进行海带配子体克隆育苗试验
..... 罗世菊,曲霞,李晓捷,张壮志,王青岩,李言,梁广津,武瑞娜(142)
头足纲线粒体基因组结构分析 赵娜娜,孟学平,申欣,程汉良,阎斌伦,郑立波,朱笑琳,刘兆普(146)
4种海洋微藻酸性磷酸酶的分离纯化及其性质的研究 王洪斌,缪雨溪,李信书,李士虎,阎斌伦(153)
JC-1标记的流式细胞术测定虾类血细胞的线粒体膜电位 冼健安,李彬,郭慧,苗玉涛,王安利(157)
三种对虾病毒在浙江省凡纳滨对虾中的流行性调查研究 林开,侯崇林,谢荣辉,吴晓果,杜华华(161)
辽宁省池塘养殖废水排放的分布及其对水环境的影响 王军,姜冰,韩家波,焦凤荣,张立民(165)
V_{B6}对盐藻色素形成、细胞生长和蛋白积累的影响 杨晓玲,郭金耀,王志龙(171)

· 综述与专论 ·

- 海水养殖鱼类病原微生物研究进展 陶诗,何芳芳,刘雪珠,何建瑜,王健鑫(175)
多环芳烃对水生动物抗氧化酶的影响、机理及防治研究进展 许友卿,王培培,丁兆坤(183)

· 信息 ·

2012年度《水产科学》优秀论文评选结果揭晓(135),《水产科学》网上投稿变更通知(141)

· 广告 ·

大连汇新钛设备开发有限公司(封二),盘锦光合蟹业有限公司(封三),《水产科学》来稿须知(封四)

期刊基本参数:CN 21-1110/S * 1982 * m * A4 * 64 * zh * P * ¥6.00 * * 12 * 2013-03

Fisheries Science

Vol. 32 No. 3 Mar. 2013

Contents

• Research and Application •

- Interactive Effects of Nitrogen and Silicon on Cell Proliferation in Marine Diatom *Phaeodactylum tricornutum* CAI Zhuo-ping, DUAN Shun-shan, ZHU Hong-hui(125)
- The Pathogenicity of Mud Crab Reovirus(MCRV) to Green Crab *Scylla paramamosain* CAI Xiao-hui, PENG Yin-hui, LIU Xu-jia, YOU Chu-chao, SU Qiong, NIE Zhen-ping, DONG Lan-fang, YANG Zhi-hui, WANG Zhi-cheng (130)
- Effects of Dietary Apramycin Sulphate on Growth Performance, Serum Biochemical Indices and Apramycin Sulphate Residues in Pacific White Leg Shrimp *Litopenaeus vannamei* SUN Zhi-wu, HUANG Yan-hua, WANG Guo-xia, CAO Jun-ming, CHEN Bing, ZHAO Hong-xia, ZHOU Ting-ting, MO Wen-yan (136)
- Kelp *Saccharina japonica* Seedling in Deep Well Seawater by Gametophyte Clone LUO Shi-ju, QU Xia, LI Xiao-jie, ZHANG Zhuang-zhi, WANG Qing-yan, LI Yan, LIANG Guang-jin, WU Rui-na (142)
- Analysis of Mitochondrial Genome Characteristics in Cephalopoda ZHAO Na-na, MENG Xue-ping, SHEN Xin, CHENG Han-liang, YAN Bin-lun, ZHENG Li-bo, ZHU Xiao-lin, LIU Zhao-pu(146)
- Purification and Characterization of Acid Phosphatase in Four Marine Microalgae WANG Hong-bin, MIAO Yu-xi, LI Xin-shu, YAN Bin-lun(153)
- Measurement of Mitochondrial Membrane Electronic Potential in Shrimp Haemocytes by JC-1 Staining and Flow Cytometry XIAN Jian-an, LI Bin, GUO Hui, MIAO Yu-tao, WANG An-li(157)
- Prevalence of Three Viruses in Pacific White Leg Shrimp *Litopenaeus vannamei* in Zhejiang Province LIN Kai, HOU Chong-lin, XIE Rong-hui, WU Xiao-guo, DU Hua-hua(161)
- Distribution and Impact of Effluents in Aquaculture Ponds on Aquatic Environments in Liaoning Province WANG Jun, JIANG Bing, HAN Jia-bo, JIAO Feng-rong, ZHANG Li-min(165)
- Effects of Vitamin B₆ on Pigmentation, Growth and Protein Accumulation in Green Alga *Dunaliella salina* YANG Xiao-ling, GUO Jin-yao, WANG Zhi-long(171)

• Overview and Specific Topic •

- Research Progress of Pathogenic Microorganisms in Fish in Mariculture TAO Shi, HE Fang-fang, LIU Xue-zhu, HE Jian-yu, WANG Jian-xin(175)
- Research Progress of Impacts, Mechanism, and Prevention of Polycyclic Aromatic Hydrocarbons(PAHs) on Antioxidase in Aquatic Animals XU You-qing, WANG Pei-pei, DING Zhao-kun(183)

ISSN 1003-1111 Edited by Editorial Board of Journal of Fisheries Science
CN 21-1110/S

Liaoning Ocean and Fisheries Science Research Institute, 50 Heishijiao Street, Dalian, P. R. China,

Post code: 116023

Tel: 86-411-84679512 Chief Editor: TAN Ke-fei