

目 次

综 述

- 1 生态毒理数据筛查与评价准则研究
刘娜,金小伟,王业耀,王子健
- 11 基于毒性效应的间隙水致毒物质鉴别技术进展
王玉婷,于红霞,张效伟,史薇
- 26 代谢组学技术在环境毒理学研究中的应用
耿柠波,张海军,王菲迪,任晓倩,张保琴,陈吉平
- 36 NMR 代谢组学在水生软体动物生态毒理研究中的应用
毛小华,陆开宏,杨文,朱津永
- 47 芳并(a)芘神经毒性研究进展
冀晓莹,高美丽
- 53 植物铜耐性机理的研究进展
李娟,全占军,张春晖,史娜娜,韩煜,王琦,张淇翔
- 61 微囊藻毒素的环境暴露、毒性和毒性作用机制研究进展
国晓春,卢少勇,谢平,陈隽,刘晓晖
- 72 环甲基硅氧烷的环境分布、行为与效应研究进展
张松林,吴丽华
- 86 蚕豆根尖微核技术的方法学新论
王五香,高丹,廖芬,周芙蓉,封少龙

专 论

- 92 不同微藻对典型行业废水急性毒性响应的敏感性研究
张瑛,王斯扬,张锡龙,王东洲,周斯芸,周集体
- 101 杀虫剂三唑磷在室内淡水微宇宙中的生态效应
袁丙强,李少南
- 115 广州河涌水体中食蚊鱼肝脏性激素相关基因的表达水平研究
张晓婵,温茹淑,方展强
- 124 重金属 Cd、Pb 对褐菖鲉肝脏组织中 HSPs 基因表达的影响
陈晔,陈荣,莫正平
- 131 水环境中藻毒素生态风险的物种敏感性分布评价
朱小奕,陈瑾,张建英
- 140 青春期双酚 A 结构类似物暴露对小鼠行为的影响
高强,李昕,郝耀光,赵亦雯,周婧弘,尹希,史海水
- 145 BDE 47 对 Neuro-2a 细胞毒性效应及作用机制
李振伟,刘畅,李春娜,邵静,李亚晨,李双月,刘晓晖,韩璐
- 151 三邻甲苯磷酸酯对大鼠 C6 星形胶质细胞的氧化损伤和细胞周期阻滞作用
刘晓晖,李双月,刘琦,朴丰源,邵静,李亚晨,薛鹏
- 157 壬基酚在蛋白核小球藻和大型溞体内的富集与传递
侯云,贾利兴,段舜山
- 167 基于彗星实验的洛克沙胂对秀丽隐杆线虫胚胎细胞 DNA 损伤的研究
高上吉,钟晓霞,刘婉莹,王勉之,孙静,李弘程,孙永学
- 173 典型污水处理厂对多环芳烃及其衍生物的去除及再生水健康风险研究
曹巍,乔梦,张一心,刘博川

- 180 2种毒性评估方法对PAHs污染场地人体健康风险的比较研究
王佩,陈莉娜,蒋鹏,刘宇
- 191 长江中下游环境激素效应的污染特征及生态风险
陈晓雯,赵建亮,刘有胜,蒋宇霞,杨愿愿,应光国
- 204 太湖北部表层沉积物重金属污染及其生物毒性研究
马青清,王博,张责研,曾瑞,周刚,乔飞,雷坤,周斌,安立会
- 211 3种有机磷农药对水生生物的乙酰胆碱酯酶抑制效应的物种敏感度分析初探
朱岩,王飞飞,张亚辉,曹莹,曾鸿鹄,刘征涛
- 219 小麦根系菲与磷吸收及转运的相互作用
杨青青,陆守昆,王红菊,李金凤,沈羽,占新华
- 226 微藻对壬基酚的响应及去除能效研究
孙凯峰,刘莉莉,孙东,刘伟杰,何宁,段舜山
- 237 大型蚤对五价砷抗性选择的响应
李莉霞,李丹,高蜜,穆磊,陈红星,谢凌天
- 243 六溴环十二烷暴露对红鳍笛鲷脑乙酰胆碱酯酶和组织氧化应激的影响及评价
陈海刚,巩秀玉,张喆,马胜伟,张林宝,胡莹,蔡文贵,贾晓平
- 251 比较2种RAD54启动子调控的全酵母发光细胞对化学诱变原的评价效果
田永杰,徐秀举,陆益新,王超,周天祺,李湘鸣
- 258 2-巯基噻唑啉与过氧化氢酶的相互作用机理研究
黄鸣,邹路易,滕跃,杜宪正,房晓燕
- 265 临汾市售蔬菜中多环芳烃污染特征及致癌风险分析
殷婧,夏忠欢,周彦池,吴敏敏,张倩倩,杨浩
- 272 绝对印度芥菜和菊苣植物螯合肽和金属硫蛋白含量的影响
何娇,何玉,黄楚乔,韩娜,陶宗娅,吴国,罗学刚
- 281 虾夷扇贝毒素(yessotoxin)诱导的栉孔扇贝(*Chlamys farreri*)体内P糖蛋白转运活性及其分布研究
赵翠琼,高春蕾,姜美洁,贾智慧,王宗兴,王宗灵
- 294 三唑磷和氯氟氰菊酯对蚯蚓的联合毒性效应
苏连水,杨桂玲,吴声敢,皮天星,王强
- 302 亚砷酸钠对酵母细胞抗氧化酶活性和脂质过氧化的影响
吴丽华,陈燕飞,陈鹏,仪慧兰
- 308 杀虫单对不同倍性泥鳅细胞系的毒性作用
向阳,李霞,秦艳杰,单莉娟,杨艳津
- 316 不同硬度条件下Cd²⁺和Cu²⁺对稀有鮈的急性毒性
熊小琴,罗思,吴本丽,王剑伟
- 323 重金属污染下龟壳攀鲈组织中ACP和AKP的活力比较
谢丽玲,谢俊,赵斌,谢群慧,查广才,郑玉忠
- 331 戊虫虫脲对几种非靶标生物的急性毒性
李冬植,王凯,徐莉,柴婷婷,崔峰,邱立红,郑明奇,覃兆海,王成菊
- 338 Cu²⁺、Zn²⁺、Cd²⁺、Cr⁶⁺和Mn²⁺对萼花臂尾轮虫联合急性毒性研究
徐晓平,席贻龙,黄林
- 348 云南疣柄牛肝菌属真菌中汞含量及食用健康风险分析
杨天伟,张霖,Jerzy Falandysz,Grażyna Krasińska,Martyna Saba,王元忠
- 356 呓虫胺对斑马鱼胚胎-幼鱼生长发育及细胞凋亡的影响
孙琦,范咏梅,赖柯华,黄伟康

CONTENTS

- 1 Review of Criteria for Screening and Evaluating Ecotoxicity Data
Liu Na, Jin Xiaowei, Wang Yeyao, Wang Zijian
- 11 Development of Identification of Key Toxicants in the Pore Water
Wang Yuting, Yu Hongxia, Zhang Xiaowei, Shi Wei
- 26 A Review on the Application of Metabonomic Approaches in Environmental Toxicology
Geng Ningbo, Zhang Haijun, Wang Feidi, Ren Xiaoqian, Zhang Baoqin, Chen Jiping
- 36 Application of NMR- based Metabolomics in the Study of Ecotoxicology of Molluscs: A Review
Mao Xiaohua, Lu Kaihong, Yang Wen, Zhu Jinyong
- 47 Research Progress in Neurotoxicity of Benzo(a)pyrene
Ji Xiaoying, Gao Meili
- 53 Research Progress of the Tolerance Mechanism of Plants to Copper
Li Juan, Quan Zhanjun, Zhang Chunhui, Shi Nana, Han Yu, Wang Qi, Zhang Qixiang
- 61 Environmental Exposure, Toxicity and Toxic Mechanism of Microcystins: A Review
Guo Xiaochun, Lu Shaoyong, Xie Ping, Chen Jun, Liu Xiaohui
- 72 The Research Progress of Environmental Distribution, Behavior and Effects of Cyclic Methylsiloxanes
Zhang Songlin, Wu Lihua
- 86 New Views on the Methodology of Micronucleus Assay with *Vicia faba* Root Tip Cells
Wang Wuxiang, Gao Dan, Liao Fen, Zhou Furong, Feng Shaolong
- 92 Comparative Study on Acute Toxic Effect Response of Four Microalgae to Typical Industrial Wastewaters
Zhang Ying, Wang Siyang, Zhang Xilong, Wang Dongzhou, Zhou Siyun, Zhou Jiti
- 101 Ecological Effects of Insecticide Triazophos in Indoor Microcosms
Yuan Bingqiang, Li Shaonan
- 115 Transcription Levels of Sex Hormone Genes in Liver of Mosquitofish in the Creek of Guangzhou City
Zhang Xiaochan, Wen Rushu, Fang Zhanqiang
- 124 The Effects of Cd and Pb on the Levels of Hepatic HSPs mRNA in *Sebastiscus marmoratus*
Chen Ye, Chen Rong, Mo Zhengping
- 131 Assessing Ecological Risk of Cyanotoxins Based on Interspecies Correlation Estimation and Species Sensitivity Distributions
Zhu Xiaoyi, Chen Jin, Zhang Jianying
- 140 Effects of Exposure to Analogues of Bisphenol A on Depressive- like Behaviors in Mice
Gao Qiang, Li Xin, Hao Yaoguang, Zhao Yiwen, Zhou Jinghong, Yin Xi, Shi Haishui
- 145 Toxic Effect and Mechanism of BDE 47 on Neuro- 2a Cells
Li Zhenwei, Liu Chang, Li Chunna, Shao Jing, Li Yachen, Li Shuangyue, Liu Xiaohui, Han Lu
- 151 Oxidative Damage and Cell Cycle Arrest in Rat C6 Astroglial Cells Induced by Tri-ortho-cresyl Phosphate
Liu Xiaohui, Li Shuangyue, Liu Qi, Piao Fengyuan, Shao Jing, Li Yachen, Xue Peng
- 157 Bioaccumulation and Transfer of Nonylphenol in *Chlorella pyrenoidosa* and *Daphnia magna*
Hou Yun, Jia Lixing, Duan Shunshan
- 167 Comet Assay Study on DNA Damage of Embryonic Cells in *Caenorhabditis elegans* Induced by Roxarsone
Gao Shangji, Zhong Xiaoxia, Liu Wanling, Wang Mianzhi, Sun Jing, Li Hongcheng, Sun Yongxue
- 173 Removal of Parent and Substituted Polycyclic Aromatic Hydrocarbons in Typical Wastewater Treatment Plants and Health Risk Assessment of Reclaimed Water
Cao Wei, Qiao Meng, Chang I- Shin, Liu Bochuan
- 180 A Comparative Study of Two Toxicity Evaluation Methods on Human Health Risks in a PAHs Contaminated Site
Wang Pei, Chen Lina, Jiang Peng, Liu Yu

- 191 Occurrence and Ecological Risks of Hormonal Activities in the Middle and Lower Reaches of Yangtze River
Chen Xiaowen, Zhao Jianliang, Liu Yousheng, Jiang Yuxia, Yang Yuanyuan, Ying Guangguo
- 204 Study on Heavy Metals Pollution in Sediments from North of Taihu Lake and Its Biological Toxicity
Ma Qingqing, Wang Bo, Zhang Zeyan, Zeng Rui, Zhou Gang, Qiao Fei, Lei Kun, Zhou Bin, An Lihui
- 211 A Preliminary Study on Species Sensitivity Analysis of Inhibition Effect of Three Organophosphorus Pesticides on Acetylcholinesterase in Aquatic Organisms
Zhu Yan, Wang Feifei, Zhang Yahui, Cao Ying, Zeng Honghu, Liu Zhengtao
- 219 Interaction of Uptake and Acropetal Translocation between Phenanthrene and Phosphate in Wheat Roots
Yang Qingqing, Lu Shoukun, Wang Hongju, Li Jinfeng, Shen Yu, Zhan Xinhua
- 226 Bioremoval of Nonylphenol and Variable Responses of Freshwater Algae under Nonylphenol Exposure
Sun Kaifeng, Liu Lili, Sun Dong, Liu Weijie, He Ning, Duan Shunshan
- 237 Rapid Evolution of Resistance to As(V) in *Daphnia magna*
Li Lixia, Li Dan, Gao Mi, Mu Lei, Chen Hongxing, Xie Lingtian
- 243 Evaluation on Effects of Hexabromocyclododecane on Acetylcholinesterase and Oxidative Stress in the Brain of Juvenile Crimson Snapper (*Lutjanus erythopterus*)
Chen Haigang, Gong Xiuyu, Zhang Zhe, Ma Shengwei, Zhang Linbao, Hu Ying, Cai Wengui, Jia Xiaoping
- 251 The Comparison of Bioassay for Chemical Mutagens between the Two RAD54 Promoters Regulating Whole Fluorescent Yeast Cells
Tian Yongjie, Xu Xiuju, Lu Yixin, Wang Chao, Zhou Tianqi, Li Xiangming
- 258 Interaction Mechanism between 2-Mercaptothiazoline and Catalase
Huang Ming, Zou Luyi, Teng Yue, Du Xianzheng, Fang Xiaoyan
- 265 Characterization and Cancer Risk Assessment of PAHs in Vegetables Sold in Linfen City, China
Yin Jing, Xia Zhonghuan, Zhou Yanchi, Wu Minmin, Zhang Qianqian, Yang Hao
- 272 Effect of Cs⁺ on Phytochelatins and Metallothionein in Seedlings of *Brassica juncea* and *Cichorium intybus*
He Jiao, He Yu, Huang Chuqiao, Han Na, Tao Zongya, Wu Guo, Luo Xuegang
- 281 Transport Activity and Distribution of P-glycoprotein Induced by Yessotoxin in Scallop *Chlamys farreri*
Zhao Cuiqiong, Gao Chunlei, Jiang Meijie, Jia Zhihui, Wang Zongxing, Wang Zongling
- 294 The Single and Joint Toxicity of Tiazophos and Cyhalothrin to Earthworm
Su Lianshui, Yang Guiling, Wu Shengan, Pi Tianxing, Wang Qiang
- 302 Sodium Arsenite Exposure Affects the Levels of Antioxidant Enzymes and Lipid Peroxidation in *Saccharomyces cerevisiae*
Wu Lihua, Chen Yanfei, Chen Peng, Yi Huilan
- 308 In Vitro Cytotoxicity Test of Monosultap Using Different Ploidy Loach Fin Cell Lines
Xiang Yang, Li Xia, Qin Yanjie, Shan Lijuan, Yang Yanjin
- 316 Acute Toxicity of Cadmium and Copper to *Gobiocypris rarus* under different water hardness
Xiong Xiaoqin, Luo Si, Wu Benli, Wang Jianwei
- 323 Activity Comparision of ACP and AKP in the Tissues of *Anabas testudineus* from Heavy Metal-polluted Areas
Xie Liling, Xie Jun, Zhao Bin, Xie Qunhui, Zha Guangcai, Zheng Yuzhong
- 331 Acute Toxicity of Guadipyr to Non-target Organisms
Li Dongzhi, Wang Kai, Xu Li, Chai Tingting, Cui Feng, Qiu Lihong, Zheng Mingqi, Qin Zhaohai, Wang Chengju
- 338 Combined Acute Toxicities of Cu²⁺, Zn²⁺, Cd²⁺, Cr⁶⁺, and Mn²⁺ to Freshwater Rotifer *Brachionus calyciflorus* Pallas
Xu Xiaoping, Xi Yilong, Huang Lin
- 348 Mercury Content in *Leccinum* Fungi and Its Health Risk Associated with Food Intake in Yunnan Province
Yang Tianwei, Zhang Ji, Jerzy Falandysz, Grażyna Krasińska, Martyna Saba, Wang Yuanzhong
- 356 Effects of Dinotefuran on the Embryonic and Larvae Development and Apoptosis in Zebrafish (*Danio rerio*)
Sun Qi, Fan Yongmei, Lai Kehua, Huang Weikang