

I 导读

综述

- 3321 植物黄嘌呤脱氢酶参与代谢途径及其功能研究进展
徐江民, 刘之陶, 蒋丹莹, 徐雨青, 陈欣雨, 饶玉春
- 3337 植物CDPK在响应逆境胁迫中的作用及机制
李敏, 伍国强, 魏明, 刘晨
- 3360 油茶炭疽病抗病机制及抗性育种研究进展
张立莎, 吴杨, 王璠, 叶思诚, 张艳
- 3375 高粱重要性状分子基础研究进展与展望
李魁印, 周光怡, 丁延庆, 徐建霞, 曹宁, 任明见, 张立异
- 3395 高通量测序技术在植物内生菌领域研究中的应用
庞煜, 马达, 王波, 蔡燕雪, 王际辉, 肖珊
- 3407 极端环境微生物分离策略及其活性物质研究进展
赵肖肖, 白世博, 吕磊, 张新国
- 3427 重金属污染水环境的微生物修复技术
王梁燕, 戴商, 金妙仁, 洪奇华
- 3441 纳米零价铁协同反硝化细菌去除硝酸盐的研究进展
赵洪, 何腾霞, 郑春霞, 王侧容, 刘欢, 田亚菲, 刘建蕊
- 3460 微生物电化学呼吸管的原理、结构及其在污染环境治理中的应用
连英丽, 余勇江, 陈胜锋, 李建军, 曹渭, UGO Marzocchi, 杨永刚

农业生物技术

- 3471 水稻黄叶少分蘖突变体 $yllt10$ 的遗传与定位
李文浩, 朱晓彤, 罗会超, 彭令灵, 詹玥, 叶亚峰, 吴跃进, 陶亮之, 马伯军, 陈析丰, 刘斌美
- 3485 水稻籽粒VB6含量的调控位点挖掘及分析
唐璐瑶, 连锦瑾, 赵蓓蓓, 沈芷琦, 朱哲楠, 叶语涵, 张芷宁, 路梅, 王跃星, 饶玉春
- 3500 OsSTP1介导蔗糖分配调控水稻氮响应
胡圣磊, 刘冬, 郭宝, 李虹烨, 朱启东, 张振华
- 3515 水稻Rho GDP解离抑制因子 $OsRhoGDI1$ 基因的特征分析
戚旺, 王俊杰, 轩强兵, 毕一凡, 朱明兰, 张艳娇, 姚莎莎, 王晶晶, 张禹舜, 梁卫红
- 3530 基于SSR分子标记的沙枣遗传多样性分析和指纹图谱构建
王梓煦, 曾郅涵, 秦孝天, 李子航, 童宇航, 刘克林, 李庆卫
- 3548 基于比较代谢组学解析藤仓赤霉菌CGMCC 17793高产GA₄机制
林嘉浩, 殷凯楠, 韩欣欣, 张心齐, 尹良鸿, 吴酬飞, 丁娜娜, 林海萍
- 3561 福州双瓣茉莉萜烯类合成酶基因家族鉴定及其响应茉莉酸甲酯的表达分析
林少青, 周琳薇, 冯丽卿, 钟彩荣, 曾瑜, 廖毓森, 方静平

- 3588 野生大豆肌醇磷酸水解酶Gs5PTase8的原核表达纯化及活性鉴定
陈媛, 范寒雨, 刘雨杭, 梁康迳, 林文雄, 贾琪
- 3603 Zur参与大豆斑疹病菌在寄主上的致病性和在非寄主上的过敏性反应
林思怡, 郑银邦, 练梦洁, 金罗佳, 耿慧雅, 徐江玲, 纪志远, 郭威
- 3619 小麦*TaABI5-D3*基因原核表达及多克隆抗体制备
韩洋, 韩冰, 邢燕平, 杨燕
- 3629 植物激素信号通路参与调控黄花菜花蕾大小的作用机制
马晓云, 冯梦楠, 王强, 李钰, 曹冬梅
- 3649 家蚕核转录因子NF- κ B对不同细胞系中免疫相关基因表达的调控分析
徐佳卉, 刘华伟, 孙小桐, 唐章晨, 黄敏, 赵萍
- 3666 节杆菌HW08降解苦马豆素关键基因在乳酸乳球菌中的表达及降解功能分析
滕君洋, 冯玉树, 李勤凡, 王妍
- 3677 核盘菌热休克蛋白*Hsp70*基因的克隆及功能分析
吕蕊花, 杨大群, 杜雨彤, 冯昭, 吕瑞华, 李依民, 张岗

环境生物技术

- 3689 镉结合蛋白CADR在莱茵衣藻细胞表面的展示及应用
廖谭聪, 叶莲, 林轶文, 龙欢, 张宝龙, 黄开耀
- 3705 通过碳水化合物结合模块增强LCC-ICCG的PET降解效率
姚佳鑫, 江雅儒, 郝梦瑶, 梁梦想, 顾正华, 张梁, 郭忠鹏
- 3722 一株1,4-二噁烷降解菌的分离及其降解性能解析
张玥, 赵联芳, 田坤, 江煜, 马瑞, 刘云
- 3750 稻蛙共生系统中大肠杆菌耐药性及其传播风险
张亚茹, 董琪琪, 苟娜娜, 钱敏, 郭博海, 何继玮, 李宇行, 韩剑众, 曲道峰
- 3765 三氯生和三氯卡班对斑马鱼幼鱼的免疫毒性比较
程颖, 詹海锋, 倪安煜, 刘兴成, 闫瑾, 王慧利
- 3781 衣藻中试修复稀土氨氮废水
郭旭, 周有彩, 何勇锦, 陈必链, 王明兹

生物技术与方法

- 3795 小麦无机氮转运蛋白原核表达与纯化特点
韦一昊, 王君君, 能芙蓉, 王露露, 焦浩, 肖福星, 王小纯
- 3810 *GmWRKY33A*正向调控大豆抗病性
钟晨丽, 兰胡娇, 王文絮, 赵雅婷, 马小涵, 刘建中
- 3823 抗癌植物曼地亚红豆杉离体诱导培养及褐化抑制
杨淑慎, 李守真, 张江波, 李军超
- 3833 不同繁殖期牦牛主要生殖器官中Uhrf1的表达与定位分析
杨小耿, 陈平, 汪丸淑, 贾鸿羽, 李钰浚, 张慧珠, 兰道亮, 李键, 何翎阁

I Briefing and introduction

Reviews

- 3321** Research advances on the metabolic pathways and functions mediated by plant xanthine dehydrogenase
XU Jiangmin, LIU Zhitao, JIANG Danying, XU Yuqing, CHEN Xinyu, RAO Yuchun
- 3337** Functions and mechanisms of CDPKs in plant responses to abiotic stress
LI Min, WU Guoqiang, WEI Ming, LIU Chen
- 3360** Progress in the resistance mechanism and breeding of *Camellia oleifera* with resistance to anthracnose
ZHANG Lisha, WU Yang, WANG Fan, YE Sicheng, ZHANG Yan
- 3375** Progress and prospects in the molecular basic research on important traits in sorghum
LI Kuiyin, ZHOU Guangyi, DING Yanqing, XU Jianxia, CAO Ning, REN Mingjian, ZHANG Liyi
- 3395** Application of high-throughput sequencing in research on plant endophytes
PANG Yu, MA Da, WANG Bo, CAI Yanxue, WANG Jihui, XIAO Shan
- 3407** Research progress in isolation strategies and bioactive substances of microorganisms in extreme environments
ZHAO Xiaoxiao, BAI Shibo, LYU Lei, ZHANG Xinguo
- 3427** Microbial remediation of heavy metal-polluted water
WANG Liangyan, DAI Shang, JIN Miaoren, HONG Qihua
- 3441** Research progress of nanoscale zero-valent iron in synergistic combinations of denitrifying bacteria for nitrate removal
ZHAO Hong, HE Tengxia, ZHENG Chunxia, WANG Cerong, LIU Huan, TIAN Yafei, LIU Jianrui
- 3460** Microbial electrochemical snorkels: principle, structure, and applications in environmental amelioration
LIAN Yingli, YU Yongjiang, CHEN Shengfeng, LI Jianjun, CAO Wei, UGO Marzocchi, YANG Yonggang

Agricultural Biotechnology

- 3471** Heredity and fine mapping of a yellow leaf and less tillering mutant *yllt10* in rice
LI Wenhao, ZHU Xiaotong, LUO Huichao, PENG Lingling, ZHAN Yue, YE Yafeng, WU Yuejin, TAO Liangzhi, MA Bojun, CHEN Xifeng, LIU Binmei
- 3485** Mining and analysis of regulatory loci for VB6 content in rice grains
TANG Luyao, LIAN Jinjin, ZHAO Beibei, SHEN Zhiqi, ZHU Zhenan, YE Yuhan, ZHANG Zhining, LU Mei, WANG Yuexing, RAO Yuchun
- 3500** OsSTP1 mediates sucrose allocation to regulate rice responses to different nitrogen supply levels
HU Shenglei, LIU Dong, GUO Bao, LI Hongye, ZHU Qidong, ZHANG Zhenhua
- 3515** Characterization of a Rho GDP dissociation inhibitor gene *OsRhoGDI1* from rice
QI Wang, WANG Junjie, XUAN Qiangbing, BI Yifan, ZHU Minglan, ZHANG Yanjiao, YAO Shasha, WANG Jingjing, ZHANG Yushun, LIANG Weihong
- 3530** Genetic diversity and fingerprinting of *Elaeagnus angustifolia* based on SSR molecular markers
WANG Zixu, ZENG Zhihan, QIN Xiaotian, LI Zihang, TONG Yuhang, LIU Kelin, LI Qingwei
- 3548** Comparative metabolomics reveals the mechanism for the high GA₄ production in *Gibberella fujikuroi* CGMCC 17793
LIN Jiahao, YIN Kainan, HAN Xinxin, ZHANG Xinqi, YIN Lianghong, WU Choufei, DING Nana, LIN Haiping
- 3561** Terpene synthase gene family in *Jasminum sambac* var. *Fuzhou bifoliatum*: genome-wide analysis and expression pattern in response to methyl jasmonate
LIN Shaoqing, ZHOU Linwei, FENG Liqing, ZHONG Cairong, ZENG Yu, LIAO Yusen, FANG Jingping

- 3588** Prokaryotic expression, purification, and activity of the inositol polyphosphate 5-phosphatase Gs5PTase8 from wild soybean
CHEN Yuan, FAN Hanyu, LIU Yuhang, LIANG Kangjing, LIN Wenxiong, JIA Qi
- 3603** *Xanthomonas axonopodis* pv. *glycines* Zur is involved in pathogenicity in host and hypersensitive responses in nonhosts
LIN Siyi, ZHENG Yinbang, LIAN Mengjie, JIN LuoJia, GENG Huiya, XU Jiangling, JI Zhiyuan, GUO Wei
- 3619** Prokaryotic expression of wheat *TaABI5-D3* gene and polyclonal antibody preparation
HAN Yang, HAN Bing, XING Yanping, YANG Yan
- 3629** Plant hormone signaling is involved in regulating flower bud size of daylily
MA Xiaoyun, FENG Mengnan, WANG Qiang, LI Yu, CAO Dongmei
- 3649** NF- κ B transcription factors regulate the expression of immunity-related genes in different cell lines of silkworm (*Bombyx mori*)
XU Jiahui, LIU Huawei, SUN Xiaotong, TANG Zhangchen, HUANG Min, ZHAO Ping
- 3666** Expression and degradation function analysis of the key genes from *Arthrobacter nitroquajacolicus* HW08 in *Lactococcus lactis* for the degradation of swainsonine
TENG Junyang, FENG Yushu, LI Qinfan, WANG Yan
- 3677** Cloning and functional analysis of heat shock protein *Hsp70* from *Sclerotinia sclerotiorum*
LÜ Ruihua, YANG Daqun, DU Yutong, FENG Zhao, LÜ Ruihua, LI Yimin, ZHANG Gang

Environmental Biotechnology

- 3689** Surface display and application of cadmium-binding protein CADR on the cell wall of *Chlamydomonas reinhardtii*
LIAO Tancong, YE Lian, LIN Yiwen, LONG Huan, ZHANG Baolong, HUANG Kaiyao
- 3705** Enhancing PET degradation efficiency through fusing carbohydrate-binding modules in LCC-ICCG
YAO Jiaxin, JIANG Yaru, HAO Mengyao, LIANG Mengxiang, GU Zhenghua, ZHANG Liang, GUO Zhongpeng
- 3722** Isolation and degradation characterization of a 1,4-dioxane-degrading bacterial strain
ZHANG Yue, ZHAO Lianfang, TIAN Kun, JIANG Yu, MA Rui, LIU Yun
- 3750** Evaluation of antibiotics resistance and transmission risk of *Escherichia coli* in rice-frog coculture system
ZHANG Yaru, DONG Qiqi, QING Nana, QIAN Min, GUO Bohai, HE Jiwei, LI Yuxing, HAN Jianzhong, QU Daofeng
- 3765** Comparison of triclosan and triclocarban in triggering immunotoxicity in larval zebrafish
CHENG Ying, ZHAN Haifeng, NI Anyu, LIU Xingcheng, YAN Jin, WANG Huili
- 3781** Pilot-scale bioremediation of rare earths wastewater by *Chlamydomonas* sp. YC
GUO Xu, ZHOU Youcai, HE Yongjin, CHEN Bilian, WANG Mingzi

Methods in Biotechnology

- 3795** Prokaryotic expression and purification of inorganic nitrogen transporters in wheat
WEI Yihao, WANG Junjun, NAI Furong, WANG Lulu, JIAO Hao, XIAO Fuxing, WANG Xiaochun
- 3810** *GmWRKY33A* positively regulates disease resistance in soybean (*Glycine max*)
ZHONG Chenli, LAN Hujiao, Wang Wenxu, ZHAO Yating, MA Xiaohan, LIU Jianzhong
- 3823** Callus induction, subculture, and browning inhibition of the anticancer plant *Taxus media*
YANG Shushen, LI Shouzhen, ZHANG Jiangbo, LI Junchao
- 3833** Expression and localization of Uhrf1 in the major reproductive organs of yaks during different reproductive cycles
YANG Xiaogeng, CHEN Ping, WANG Wanshu, JIA Hongyu, LI Yujun, ZHANG Huizhu, LAN Daoliang, LI Jian, HE Honghong