

中文目次

综述

- 331 结核分枝杆菌诱导IFN- β 产生在免疫调控中的作用

黄蓓, 孟祥苗, 田江瑶, 宋厚辉, 杨杨

- 344 基于智能计算噬菌体的细菌宿主范围预测

王博宇, 杨孜孜, SUN Fengzhu, 王颖

- 364 外膜囊泡的物质传递及细菌保护作用研究进展

潘琪琪, 王涓, 汪智, 肖铠姗, 吴清平

- 378 (p)ppGpp——“魔斑”核苷酸在细菌中的研究进展

宋阳, 王译婕, 王瑞, 申屠旭萍, 俞晓平

- 391 鲍曼不动杆菌VI型分泌系统功能蛋白的研究及应用新进展

王海蓉, 宁年智, 王慧

- 408 高通量技术在萜类合成酶筛选中的应用

李贝, 邓子新, 徐敏, 侯安伟

- 432 基于基因组数据分析的细菌耐药基因识别与表型预测

周秀娟, 何逸尘, 张利达, 崔妍, 史贤明

研究报告

- 443 丝状真菌*Podospora anserina*中光敏色素基因的鉴定及功能分析

陈思羽, 李晓, 杜文珍, 耿月华, 刘刚, 谢宁

- 461 蛹虫草磷酸甲羟戊酸激酶和焦磷酸甲羟戊酸脱羧酶基因的功能分析

闫欢欢, 尚怡彤, 王丽红, 田学琴, 姚丽华, 曾斌, 胡志宏

- 473 PH826噬菌体与抗生素联用有效抑制多重耐药铜绿假单胞菌生物被膜的形成

胡紫萌, 陈伟叶, 陈欣仪, 李培, 李敏, 周璐, 杜鸿, 刘玉庆, 张炜, 谈忠鸣

- 489 产 γ -氨基丁酸基因工程重组大肠杆菌的构建及其发酵特性

管付瑶, 陆佳杰, 朱志文, 王配泽, 鄢楚洋, 于平

- 502 南沙链霉菌来源细胞色素P450酶CYP154C34的表征及生物转化

高齐霖, 杨建, 李蓉, 赖刚, 许莲花

- 516 复合益生菌对白羽肉鸡肌肉品质的影响及作用机理

姚先赐, 管乐琪, 孙帅, 刘金松, 曾新福, 吴艳萍, 张瑞强, 许英蕾, 杨彩梅

- 530 培养法检测海滨浴场细菌多样性及耐药性研究

叶芷言, 王芸, 冯子翡, 陈诺, 祝雨欣, 胡明其, 李骥, 潘金成

- 548 不同水肥管理对红花生长的影响及红花根际解磷菌的筛选和鉴定

覃书伟, 黄美卉, 杨光, 刘敏, 郭欢, 李亚航, 张霞, 曹爱萍

- 565 三种蓝莓根际细菌的分离及其对蓝莓苗生长发育的影响

陈树莓, 俞正杰, 时潇琼, 李里, 覃月映, 朱逸晨, 张春媚, 邢珂, 秦盛

- 581 添加毛叶苕子对红壤旱地土壤真菌群落的影响

赵竟茹, 晏蒙, 吴远诺, 刘天赐, 李绍兵, 冷珂, 项兴佳, 刘佳

- 597 QsvR对副溶血弧菌VI型分泌系统1相关基因的转录调控

吴燕, 仇越, 吴齐敏, 张苗苗, 李雪, 张义全, 陆仁飞

- 607 柽柳根际一株盐单胞菌Bachu 26的分离、鉴定及其盐胁迫下的促生作用研究

张小霞, 陈筱玥, 王秋云, 张国只, 杨新平, 代金平, 梁振普

技术与方法

- 623 类芽孢杆菌(*Paenibacillus* sp.)蛋白质组学研究中三种蛋白提取方法的比较分析

宋丽丽, 张雪, 张更新, 魏鑫丽, 王先平

CONTENTS

REVIEWS

- 331 Research progress in the role of IFN- β production induced by *Mycobacterium tuberculosis* in immune regulation
HUANG Bei, MENG Xiangmiao, TIAN Jiangyao, SONG Houhui, YANG Yang
- 344 Progress in predicting bacteriophage host ranges by intelligent computing
WANG Boyu, YANG Zizi, SUN Fengzhu, WANG Ying
- 364 Research progress in material delivery and bacterial protection of outer membrane vesicles
PAN Qiqi, WANG Juan, WANG Zhi, XIAO Kaishan, WU Qingping
- 378 (p)ppGpp—"magic point" nucleotide in bacteria
SONG Yang, WANG Yijie, WANG Rui, SHENTU Xuping, YU Xiaoping
- 391 Advances in functional proteins of type VI secretion system of *Acinetobacter baumannii*
WANG Hairong, NING Nianzhi, WANG Hui
- 408 Application of high-throughput technology in the screening of terpene synthases
LI Bei, DENG Zixin, XU Min, HOU Anwei
- 432 Identification and prediction of bacterial antibiotic resistance *via* genomic data analysis
ZHOU Xiujuan, HE Yichen, ZHANG Lida, CUI Yan, SHI Xianming

RESEARCH ARTICLES

- 443 Identification and functional characterization of phytochrome genes in the filamentous fungus *Podospira anserina*
CHEN Siyu, LI Xiao, DU Wenzhen, GENG Yuehua, LIU Gang, XIE Ning
- 461 Functions of genes encoding phosphomevalonate kinase and mevalonate diphosphate decarboxylase in *Cordyceps militaris*
YAN Huanhuan, SHANG Yitong, WANG Lihong, TIAN Xueqin, YAO Lihua, ZENG Bin, HU Zhihong
- 473 Combination of phage PH826 and antibiotics inhibits biofilm formation of multidrug-resistant *Pseudomonas aeruginosa*
HU Zimeng, CHEN Weiye, CHEN Xinyi, LI Pei, LI Min, ZHOU Lu, DU Hong, LIU Yuqing, ZHANG Wei, TAN Zhongming

- 489 Construction and fermentation characterization of γ -aminobutyrate-producing recombinant strains of *Escherichia coli*
GUAN Fuyao, LU Jiajie, ZHU Zhiwen, WANG Peize, YAN Chuyang, YU Ping
- 502 Characterization and biotransformation of cytochrome P450 CYP154C34 from *Streptomyces nanshensis*
GAO Qilin, YANG Jian, LI Rong, LAI Gang, XU Lianhua
- 516 Probiotic mixture improves meat quality of white feather broilers
YAO Xianci, GUAN Leqi, SUN Shuai, LIU Jinsong, ZENG Xinfu, WU Yanping, ZHANG Ruiqiang, XU Yinglei, YANG Caimei
- 530 Diversity and antibiotic resistance of bacteria from bathing beaches: based on the cultivation method
YE Zhiyan, WANG Yun, FENG Zifei, CHEN Nuo, ZHU Yuxin, HU Mingqi, LI Ji, PAN Jincheng
- 548 Effects of different water and fertilizer management measures on the growth of safflower and screening and identification of phosphorus-solubilizing bacteria in safflower rhizosphere
QIN Shuwei, HUANG Meihui, YANG Guang, LIU Min, GUO Huan, LI Yahang, ZHANG Xia, CAO Aiping
- 565 Bacteria isolated from rhizosphere soils of three blueberry varieties affect the growth and development of blueberry seedlings
CHEN Shumei, YU Zhengjie, SHI Xiaoqiong, LI Li, QIN Yueying, ZHU Yichen, ZHANG Chunmei, XING Ke, QIN Sheng
- 581 Application of hairy vetch (*Vicia villosa* Roth L.) affects fungal community in upland red soil
ZHAO Jingru, YAN Meng, WU Yuannuo, LIU Tianci, LI Shaobing, LENG Ke, XIANG Xingjia, LIU Jia
- 597 Transcriptional regulation of type VI secretion system 1 genes by QsvR in *Vibrio parahaemolyticus*
WU Yan, QIU Yue, WU Qimin, ZHANG Miaomiao, LI Xue, ZHANG Yiquan, LU Renfei
- 607 Isolation and identification of *Halomonas* sp. Bachu 26 with plant growth-promoting effect from rhizosphere of *Tamarix chinensis* under salt stress
ZHANG Xiaoxia, CHEN Xiaoyue, WANG Qiuyun, ZHANG Guozhi, YANG Xinping, DAI Jinping, LIANG Zhenpu

TECHNOLOGY AND METHOD

- 623 Comparison of three protein extraction methods for the proteomics research on *Paenibacillus* sp.
SONG Lili, ZHANG Xue, ZHANG Gengxin, WEI Xinli, WANG Xianping