

中文目次

综述

- 2771 土壤病毒研究进展及主要生态功能解析**
孙岩, 王光华, 李彦生, 王新珍, 向文胜
- 2785 ATP生物发光法检测抗菌药敏感性影响因素的研究进展(英文)**
于莹, 林淦, 王佳慧, 周喆麒, 付玉和, 宋厚辉, 程昌勇, 吴芹
- 2799 流体剪切力介导的变异链球菌生物膜形成机制研究进展**
孙懿格, 亓庆国, 侯铁舟, 强乐
- 2811 真菌凋亡样细胞死亡和靶向药物的研究进展**
王柳茜, 李珑捷, 田庆庆, 杜春梅
- 2830 粗糙型布鲁氏菌与宿主互作机制的研究进展**
李林姣, 王倩, 邱东旭, 刘铭赫, 冯宇, 范学政, 丁家波, 孙石静, 徐发荣, 蒋卉
- 2841 羟胺在氮循环中的作用及其影响N₂O排放的研究进展**
刘拓宏, 杨裕然, 杨圆圆, 李振轮, 陈益
- 2854 酿酒酵母RNA聚合酶Ⅲ特异亚基的研究进展**
杨欣怡, 李盼, 曾凡力
- 2864 细菌转录因子调控功能的研究策略**
陈玲莉, 李晓飞, 刘莹, 任方哲, 焦新安, 黄金林

研究报告

- 2874 链霉菌对土传枯萎病和青枯病的防控效果评估及影响因子探究**
白鸽, 李言雨, 刘彩霞, 邱巍, 袁军, 秦华, 赵梦丽, 徐秋芳
- 2889 LisK/R通过调控鞭毛基因表达影响单增李斯特菌低温生长**
汪国俊, 黄金梅, 栗绍文, 刘梅
- 2903 工程菌EcN预防小鼠过敏性哮喘症状研究**
朱颖邦, 裴业春, 麦艳琪, 柳贤德
- 2920 黄河三角洲芽孢杆菌的分离鉴定及其盐胁迫下对田菁的促生作用**
李思铭, 于潇, 彭志伟, 景海青, 刘坤坤, 王寅初, 尹雪斌, 季春丽, 任承钢, 薛金爱, 崔红利
- 2938 一株牛口咽液分离口蹄疫病毒的特性分析**
蔡梦婷, 袁红, 王利豪, 杨竟纯, 王涛, 包慧芳, 杨宇轩, 孙普, 李坤, 黄书伦, 郭海洋, 李平花, 卢曾军, 何继军, 白兴文
- 2948 鞘氨醇单胞菌胞外多糖对油酸诱导的IR-HepG2细胞糖脂代谢紊乱的影响**
宋燕, 姚凯月, 徐京, 赵亚东, 水珊珊, 王家星, 胡一鸣, 孙继鹏, 马明珠
- 2965 防御假单胞菌FD6抗菌代谢物鉴定及其对灰霉病菌的抑制作用**
杨晶龙, 宋琦, 胡婕妤, 焦永鑫, 吴涛, 张清霞
- 2976 广东省宠物源肺炎克雷伯菌耐药、毒力基因的检测与药物敏感性测定**
吴素娟, 林昌成, 万鹏, 胡健欣, 黄鸿昊, 李杰, 熊文广, 曾振灵
- 2988 不同根腐病发病率青稞农田根际土壤真菌多样性特征及差异**
许世洋, 李雪萍, 漆永红, 李建军
- 3007 基于聚合物膜包封的微生物原位培养装置**
金皇辉, 何冰欢, 赵丽茹, 张保健, 李备
- 3023 细菌群落通过增加丰度、多样性与构建协同共生模式适应干旱气候环境**
王天琪, 刘秀花, 马延东
- 3041 两株侵染寡养单胞菌噬菌体的生物学特性及全基因组分析**
姜雪, 夏玉侨, 王丽艳, 李喜梅, 荆瑞勇, 刘俊杰
- 3056 代谢工程改造少动鞘氨醇单胞菌发酵生产结冷胶**
孙鹏, 薛正莲, 高聪, 刘佳, 吴静, 李晓敏, 刘立明
- 3075 mfpA突变对副溶血性弧菌运动性和生物被膜形成的影响**
朱黄琛之, 韩周愈, 孙宇, 莫秋芬, 陈刚, 杨梦华, 许光治
- 3089 产半纤维素酶的苔藓放线菌对烟草上部叶片品质的影响**
郝捷, 郭春生, 张宝, 马尚毅, 张磊, 洪杰, 王胜利, 丁海, 刘星明, 申国明, 吴元华, 张立
- 3105 小肠结肠炎耶尔森氏菌烈性噬菌体Yenyong1的生物学特性及其对生猪肉片中病菌的清除作用**
黄慧倩, 洪彬鑫, 徐锦鹏, 景晓盈, 张靖昊, 刘文才, 陈慧珏, 胡嘉琪, 李登峰, 童贻刚
- 3126 一种聚对苯二甲酸乙二醇酯(PET)水解新酶的挖掘与酶学性质分析**
赵伟, 毕海珍, Yew Maxine, 翟欢欢, 张翠英, 朱蕾蕾
- 3136 不同种属细胞系感染HCoV-OC43 VR1558株的病变效应与复制动力学**
吴依依, 刘冠雅, 高尚卿, 刘士元, 孙洁伟, 王梦微, 黄保英, 谭文杰
- 3150 四溴双酚A胁迫响应分子元件的功能**
白雪, 许玫英, 姚晖, 郑晓丹, 汪伦记, 陈杏娟
- 3165 藏猪源乳酸菌的分离鉴定及益生特性测定**
樊秋月, 林焱, 朱伟云
- 3177 不同生境和不同性别黄胸木蜂成虫肠道微生物的多样性和功能预测**
贺春玲, 张佳卉, 郑炜凡, 陈文阳, 杨乐, 刘璇, 代前磊
- 3195 非洲猪瘟病毒E423R蛋白诱导细胞自噬的功能**
黄静怡, 康喜龙, 黄霞, 周懿, 刘弘知, 焦新安, 潘志明
- 3208 枯草芽孢杆菌斯氏亚种YC25发酵条件优化及防效测定**
危潇, 黎妍妍, 袁勤峰, 姚经武, 黄大野, 曹春霞

技术与方法

- 3221 荧光重组酶介导等温核酸扩增技术在虾肝肠胞虫病害现场检测中的应用及条件优化**
林淦, 王佳慧, 雷晨曦, 付玉和, 谢铭, 李俊峰, 孙静, 宋厚辉, 程昌勇, 吴芹

CONTENTS

REVIEWS

- 2771 Research progress and main ecological functions of soil viruses
SUN Yan, WANG Guanghua, LI Yansheng, WANG Xinzhen, XIANG Wensheng
- 2785 Influencing factors of ATP bioluminescence-based antimicrobial susceptibility testing: a review
YU Ying, LIN Gan, WANG Jiahui, ZHOU Zheqi, FU Yuhe, SONG Houhui, CHENG Changyong, WU Qin
- 2799 Research progress on the mechanism of biofilm formation of *Streptococcus mutans* mediated by fluid shear stress
SUN Yige, QI Qingguo, HOU Tiezhou, QIANG Le
- 2811 Advances in fungal apoptosis-like cell death and targeted drugs
WANG Liuxi, LI Longjie, TIAN Qingqing, DU Chunmei
- 2830 Advances in the interaction mechanisms between rough *Brucella* and host organisms
LI Linjiao, WANG Qian, QIU Dongxu, LIU Minghe, FENG Yu, FAN Xuezhang, DING Jiabo, SUN Shijiang, XU Farong, JIANG Hui
- 2841 Research progress in the role of hydroxylamine in the nitrogen cycle and its impact on N₂O emissions
LIU Tuohong, YANG Yuran, YANG Yuanyuan, LI Zhenlun, CHEN Yi
- 2854 Research progress in specific subunits of RNA polymerase III in *Saccharomyces cerevisiae*
YANG Xinyi, LI Pan, ZENG Fanli
- 2864 Research strategies for the regulatory functions of bacterial transcription factors
CHEN Lingli, LI Xiaofei, LIU Ying, REN Fangzhe, JIAO Xin'an, HUANG Jinlin

RESEARCH ARTICLES

- 2874 Control effects of *Streptomyces* on soil-borne *Fusarium* wilt and bacterial wilt influencing factors analysis
BAI Ge, LI Yanyu, LIU Caixia, QIU Wei, YUAN Jun, QIN Hua, ZHAO Mengli, XU Qiufang
- 2889 LisK/R plays a role in *Listeria monocytogenes* growth at low temperatures by regulating the expression of flagellar genes
WANG Guojun, HUANG Jinmei, LI Shaowen, LIU Mei
- 2903 Prevention of allergic asthma symptoms in mice by an engineered bacterial strain EcN
ZHU Yingbang, PEI Yechun, MAI Yanqi, LIU Xiande
- 2920 *Bacillus* strains from the Yellow River Delta: isolation, identification, and assessment of growth-promoting effect on *Sesbania cannabina* under salt stress
LI Siming, YU Xiao, PENG Zhiwei, JING Haiqing, LIU Shenkun, WANG Yinchu, YIN Xuebin, JI Chunli, REN Chenggang, XUE Jin'ai, CUI Hongli
- 2938 Characteristics of a strain of foot-and-mouth disease virus isolated from bovine oropharyngeal fluid
CAI Mengting, YUAN Hong, WANG Lihao, YANG Jingchun, WANG Tao, BAO Huifang, YANG Yuxuan, SUN Pu, LI Kun, HUANG Shulan, GUO Haiyang, LI Pinghua, LU Zengjun, HE Jijun, BAI Xingwen
- 2948 Effects of extracellular polysaccharides from *Sphingomonas echioides* on oleic acid-induced glucose and lipid metabolism disorders in IR-HepG2 cells
SONG Yan, YAO Kaiyue, XU Jing, ZHAO Yadong, SHUI Shanshan, WANG Jiaxing, HU Yiming, SUN Jipeng, MA Mingzhu
- 2965 Identification of an antifungal compound produced by *Pseudomonas protegens* FD6 and determination of its inhibitory effect against *Botrytis cinerea*
YANG Jinglong, SONG Qi, HU Jieyu, JIAO Yongxin, WU Tao, ZHANG Qingxia
- 2976 Resistance and virulence genes and antimicrobial susceptibility of pet-derived *Klebsiella pneumoniae* from Guangdong Province
WU Sujuan, LIN Changcheng, WAN Peng, HU Jianxin, HUANG Honghao, LI Jie, XIONG Wenguang, ZENG Zhenling
- 2988 Characteristics and disparities of fungal diversity in rhizosphere soil of naked barley from fields with different root rot incidences
XU Shiyang, LI Xueping, QI Yonghong, LI Jianjun
- 3007 An *in-situ* culture device for microorganisms based on polymer membrane encapsulation
JIN Chenghui, HE Binghuan, ZHAO Liru, ZHANG Baojian, LI Bei
- 3023 Bacterial communities adapt to arid climatic environments by increasing abundance and diversity and constructing synergistic patterns
WANG Tianqi, LIU Xiuhua, MA Yandong
- 3041 Biological characteristics and genome sequences of two bacteriophage strains infecting *Stenotrophomonas indicatrix*
JIANG Xue, XIA Yuqiao, WANG Liyan, LI Ximei, JING Ruiyong, LIU Junjie
- 3056 Metabolic engineering of *Sphingomonas paucimobilis* for the production of gellan gum
SUN Peng, XUE Zhenglian, GAO Cong, LIU Jia, WU Jing, LI Xiaomin, LIU Liming
- 3075 Influences of *mfpA* mutation on the motility and biofilm formation of *Vibrio parahaemolyticus*
ZHU Huangchenzhi, HAN Zhouyu, SUN Yu, MO Qiufen, CHEN Gang, YANG Menghua, XU Guangzhi
- 3089 Effect of a hemicellulase-producing strain of *Actinacidiphila bryophytorum* on the quality of upper tobacco leaves
HAO Jie, GUO Chunsheng, ZHANG Bao, MA Shangyi, ZHANG Lei, HONG Jie, WANG Shengli, DING Hai, LIU Xingming, SHEN Guoming, WU Yuanhua, ZHANG Li
- 3105 Biological characteristics of virulent phage Yenyong1 and its sterilization effect against *Yersinia enterocolitica* in raw pork slices
HUANG Huiqian, HONG Binxin, XU Jinpeng, JING Xiaoying, ZHANG Jinghao, LIU Wencai, CHEN Huijue, HU Jiaqi, LI Dengfeng, TONG Yigang
- 3126 Discovery and characterization of a new enzyme for hydrolyzing polyethylene terephthalate (PET)
ZHAO Wei, BI Haizhen, YEW Maxine, ZHAI Huanhuan, ZHANG Cuiping, ZHU Leilei
- 3136 Cytopathic effects and replication kinetics of HCoV-OC43 VR1558 strain in cell lines derived from different species
WU Yiyi, LIU Guanya, GAO Shangqing, LIU Shiyuan, SUN Jiewei, WANG Mengwei, HUANG Baoying, TAN Wenjie
- 3150 Functional characteristics of the gene cluster in response to tetrabromobisphenol A stress
BAI Xue, XU Meiyang, YAO Hui, ZHENG Xiaodan, WANG Lunji, CHEN Xingjuan
- 3165 Isolation, identification, and probiotic property evaluation of lactic acid bacteria from Xizang pigs
FAN Qiuyue, LIN Yan, ZHU Weiyun
- 3177 Diversity and functional prediction of gut microbiota in adults *Xylocopa appendiculata* from different habitats and sexes
HE Chunling, ZHANG Jiahui, ZHENG Weifan, CHEN Wenyang, YANG Le, LIU Xuan, DAI Qianming
- 3195 African swine fever virus protein E423R induces autophagy
HUANG Jingyi, KANG Xilong, HUANG Xia, ZHOU Yi, LIU Hongzhi, JIAO Xin'an, PAN Zhiming
- 3208 Fermentation condition optimization and biocontrol effect determination of *Bacillus subtilis* subsp. *spizizenii* YC25
WEI Xiao, LI Yanyan, YUAN Qinfeng, YAO Jingwu, HUANG Daye, CAO Chunxia

TECHNOLOGY AND METHOD

- 3221 Application and detection condition optimization of a fluorescent recombinase-aided amplification method for field detection of *Enterocytozoon hepatopenaei* in prawn
LIN Gan, WANG Jiahui, LEI Chenxi, FU Yuhe, XIE Ming, LI Junfeng, SUN Jing, SONG Houhui, CHENG Changyong, WU Qin