

中文目次

综述

- 391 绿针假单胞菌的研究进展及农业应用潜力
张春媚, 徐明洁, 李雪威, 邢珂, 秦盛
- 403 基于代谢组学的抗生素与细菌间作用研究进展
陈敏玲, 韦献虎, 张菊梅, 丁郁, 吴清平
- 414 马乳酒样乳杆菌马乳酒样亚种及其研究进展
王艳萍, 严婷, 王亚琦, 王远望, 王萌
- 421 微生物源甲硫氨酸γ-裂解酶的研究进展
谭非凡, 朱丽雯, 周成, 张桂敏, 贾开志
- 434 白色念珠菌胞外囊泡的组成及其功能研究进展
韦瑜, 程磊, 任彪
- 446 肺炎链球菌糖疫苗的研究进展
刘小宇, 陈敏
- 458 基于蛋白质跨外膜自转运系统的细菌细胞表面蛋白展示技术研究进展
蔡锟, 储引娣, 黄丕英, 韦良婉, 范恩国
- 476 细胞焦亡在黄病毒致病机制中的作用
张琛, 宋正然, 王培刚
- 489 红树林湿地多环芳烃的微生物降解
李羽, 罗丽娟, 杨旭楠, 许玫英, 栾天罡
- 508 里氏木霉有性生殖的分子机理及其在遗传育种中的应用
罗宇航, 江贤章, 陈秀珍, 董志扬, 秦丽娜

研究报告

- 520 粪便样本不同保存方式对肠道菌群测序结果的影响
范馨月, 陈璐萍, 朱金滔, 律娜, 朱宝利
- 533 枯草芽孢杆菌异戊二烯酶ComQ的生物信息学分析及对生物膜形态的影响
李伟, 吴静, 冯静静, 汪剑, 周梦洁, 胡汶松, Sokhna mbacke Gningue, 薛正莲, 赵世光, 钱森和, 王洲, 刘艳
- 543 灭癌素链霉菌中磷硫酰化修饰DNA结合结构域的功能分析
陈英, 孔令新, 邓子新, 由德林
- 556 *Sulfolobus acidocaldarius* DHH超家族核酸酶Saci0542的酶学特征研究
王伟玮, 谢娟娟, 宋吴涛, 刘喜朋, 汪启胜
- 567 耐低温酵母*Curvibasidium rogersii*菌株在松萝样品中的首次分离鉴定及基于基因组分析的生物特性探究
白龙, 张安琪, 朱熠婷, 王雪晴, 王慕瑶, 李俊, 章漳, 赵心清
- 579 驴源兽疫链球菌的分离鉴定及多位点序列分型分析
蒲小峰, 陈晓萌, 汪丽, 张泽华, 吕芬芬, 王浩, 张宝江, 苏艳
- 590 野葛根际固氮微生物群落分布特征及其影响因素
刘璐, 蒋慧丹, 张鑫, 彭迪
- 602 果实红色与黄色番茄品种种植株茎部内生细菌群落结构及代谢功能特征
陈思宇, 孙妍, 肖健, 赵天义, 杨尚东

- 617 基于xkdB假基因座位的瓦雷兹芽孢杆菌FZB42超折叠GFP标记研究
曹贤明, 韦纯玥, 黄升泉, 樊奔

- 628 AI-2通过甲基化趋化受体McpU调控恶臭假单胞菌KT2440的趋化运动及生物膜形成
谢来工, 赵文瑾, 张磊

- 640 富硒条件下蜜环菌菌株硒耐受性及胞外酶生物活性的研究
张彩妮, 邓百万, 柏秋月, 解修超, 刘兰兰, 袁毓谦

- 650 一株类志贺邻单胞菌噬菌体生物学特性及全基因组分析
何洋, 秦颖, 荆兆元, 杨洪江

- 661 石油污染环境中固氮和寡氮营养细菌的分离鉴定及其特性
李方玲, 张雅坤, 梁立宝, 王小通, 杜显元, 王磊

- 672 不同动物源性细胞系对猪丁型冠状病毒的易感性
瞿欢, 胡靖飞, 李施倩, 肖黛, 张路文, 付嘉钰, 赵玉佳, 陈讷, 文翼平, 伍锐, 赵勤, 颜其贵, 文心田, 曹三杰, 黄小波

- 686 园林植物女贞不同生态位细菌群落结构及其多样性
李斌, 史鸿翔, 刘兰兰, 张欣, 杨璞, 陈航, 冯颖, 陈晓鸣

- 703 普洱地区茶叶内生细菌与根际土壤细菌群落结构分析
王桥美, 严亮, 杨瑞娟, 彭文书, 季爱兵, 刘丽, 张文杰, 胡先奇

- 715 CaLR激活副溶血弧菌VI型分泌系统1相关基因的转录
陆仁飞, 李雪, 薛星帆, 张苗苗, 孙君芳, 高鹤, 周冬生, 张义全

- 727 猪脾转移因子对La Sota株鸡新城疫弱毒疫苗的免疫增强作用
徐磊, 杨慧, 刘毅发, 杨子场, 闫丽萍, 苏雅君, 刘小龙, 宋素泉, 张渊魁, 黄瑜

- 742 广东本地及移民学龄儿童饮食结构和肠道菌群差异分析
伦静娴, 邹金虎, 高雪锋, 何肖龙, 龚泽龙, 李煜彬, 周承星, 曹虹

- 754 长链非编码RNA CTO-S对伪狂犬病毒复制的影响
苏乐, 段龙川, 姜慧, 付雯, 李林涛, 陈焕春, 刘正飞

其他

封二 《微生物学报》2021年度“优秀论文”名单

文后I 2022年中国微生物学会及各专业委员会学术活动计划表

文后II 《微生物学报》2021年审稿专家名单

文后III 《微生物学报》编委会名单

封三 《微生物学报》2021年度“优秀编委”和“突出贡献奖”名单

广告

文前(I/II) 国家微生物科学数据中心

文前(III/IV) 镇江东方生物工程设备有限公司

CONTENTS

REVIEWS

- 391 Recent research advances and application potential in agriculture of *Pseudomonas chlororaphis*
ZHANG Chunmei, XU Mingjie, LI Xuewei, XING Ke, QIN Sheng
- 403 Research progress of the interaction between antibiotics and bacteria based on metabolomics
CHEN Minling, WEI Xianhu, ZHANG Jumei, DING Yu, WU Qingping
- 414 *Lactobacillus kefiranofaciens* subsp. *kefiranofaciens* and its research progress
WANG Yanping, YAN Ting, WANG Yaqi, WANG Yuanwang, WANG Meng
- 421 Research progress of methionine γ-lyase from microorganism
TAN Feifan, ZHU Liwen, ZHOU Cheng, ZHANG Guimin, JIA Kaizhi
- 434 Research progress on the composition and function of extracellular vesicles of *Candida albicans*
WEI Yu, CHENG Lei, REN Biao
- 446 Carbohydrate-based vaccines of *Streptococcus pneumoniae*
LIU Xiaoyu, CHEN Min
- 458 Trend of bacterial cell surface display: the autodisplay technology
CAI Kun, CHU Yindi, HUANG Piying, WEI Liangwan, FAN Enguo
- 476 Research progress on the role of pyroptosis in flavivirus infection
ZHANG Chen, SONG Zhengran, WANG Peigang
- 489 Advances in microbial degradation of polycyclic aromatic hydrocarbons in mangrove wetlands
LI Yu, LUO Lijuan, YANG Xunan, XU Meiyi, LUAN Tiangang
- 508 Molecular mechanism of sexual reproduction in *Trichoderma reesei* and its application in strain engineering
LUO Yuhang, JIANG Xianzhang, CHEN Xiuzhen, DONG Zhiyang, QIN Lina

RESEARCH ARTICLES

- 520 Effects of different preservation methods for fecal samples on the sequencing results of gut microbiota
FAN Xinyue, CHEN Luping, ZHU Jintao, LYU Na, ZHU Baoli
- 533 Bioinformatics analysis of *Bacillus subtilis* isoprene enzyme ComQ and its effect on biofilm morphology
LI Wei, WU Jing, FENG Jingjing, WANG Jian, ZHOU Mengjie, HU Wensong, Sokhna mbacke Gringué, XUE Zhenglian, ZHAO Shiguang, QIAN Senhe, WANG Zhou, LIU Yan
- 543 Functional analysis of the sulfur-binding domain for specifically recognizing phosphorothioate modified DNA in *Streptomyces gancadicus*
CHEN Ying, KONG Lingxin, DENG Zixin, YOU Delin
- 556 Enzymatic characterization of *Sulfolobus acidocaldarius* SacI0542 nuclease belonging to DHH superfamily
WANG Weiwei, XIE Juanjuan, SONG Wutao, LIU Xipeng, WANG Qisheng
- 567 First isolation and identification of cold adaptive yeast *Curvibasidium rogersii* from *Usnea* lichen and genome-based studies of its biological properties
BAI Long, CHONG Anjoe, ZHU Yiting, WANG Xueqing, WANG Muyao, LI Jun, ZHANG Zhang, ZHAO Xinqing
- 579 The isolation and identification of *Streptococcus equi* ssp. *zooepidemicus* from donkey and its multilocus sequence typing
PU Xiaofeng, CHEN Xiaomeng, WANG Li, ZHANG Zehua, LV Fenfen, WANG Hao, ZHANG Baojiang, SU Yan
- 590 Distribution pattern and influencing factors of nitrogen-fixing microbial community in the rhizosphere of *Pueraria lobata*
LIU Lu, JIANG Huidan, ZHANG Xin, PENG Di
- 602 Characteristics of endophytic bacterial community structure and metabolic function in stems of tomatoes between red and yellow varieties
CHEN Siyu, SUN Yan, XIAO Jian, ZHAO Tianyi, YANG Shangdong
- 617 Labeling of *Bacillus velezensis* FZB42 by expressing superfolder GFP at the locus of the pseudogene *xkdB*
CAO Xianming, WEI Chunyue, HUANG Shengquan, FAN Ben
- 628 Autoinducer-2 regulates the chemotaxis and biofilm formation of *Pseudomonas putida* KT2440 by the methyl-accepting chemotaxis protein McpU
XIE Laigong, ZHAO Wenjin, ZHANG Lei
- 640 Biological activity and selenium tolerance of *Armillaria mellea*
ZHANG Caini, DENG Baiwan, BAI Qiuyue, XIE Xiuchao, LIU Lanlan, YUAN Yuqian
- 650 Biological characteristics and genomic analysis of a *Plesiomonas shigelloides* phage phiP4-7
HE Yang, QIN Xuying, JING Zhao yuan, YANG Hongjiang
- 661 Identification and characterisation of nitrogen-fixing bacteria and oligotrophic-nitrogen bacteria from the polluted petroleum
LI Fangling, ZHANG Yakun, LIANG Libao, WANG Xiaotong, DU Xianyuan, WANG Lei
- 672 Susceptibility of cell lines from different animal species to porcine deltacoronavirus
QU Huan, HU Jingfei, LI Shiqian, XIAO Dai, ZHANG Luwen, FU Jiayu, ZHAO Yujia, CHEN Rui, WEN Yiping, WU Rui, ZHAO Qin, YAN Qigui, WEN Xintian, CAO Sanjie, HUANG Xiaobo
- 686 Structure and diversity of bacterial community in different niches of garden plant *Ligustrum lucidum* Ait.
LI Bin, SHI Hongxiang, LIU Lanlan, ZHANG Xin, YANG Pu, CHEN Hang, FENG Ying, CHEN Xiaoming
- 703 Analysis on the community structure of bacteria in tea leaves and rhizosphere soil in Pu'er
WANG Qiaomei, YAN Liang, YANG Ruijuan, PENG Wenshu, JI Aibing, LIU Li, ZHANG Wenjie, HU Xiangqi
- 715 CalR activates the transcription of type VI secretion system 1 genes in *Vibrio parahaemolyticus*
LU Renfei, LI Xue, XUE Xingfan, ZHANG Miaomiao, SUN Junfang, GAO He, ZHOU Dongsheng, ZHANG Yiquan
- 727 Immunoenhancement on Newcastle disease virus La Sota strain attenuated vaccine by pig spleen transfer factor
XU Lei, YANG Hui, LIU Yifa, YANG Ziyang, YAN Liping, SU Yajun, LIU Xiaolong, SONG Suquan, ZHANG Yuankui, HUANG Yu
- 742 Analysis of the diversity of dietary pattern and gut microbiota among local and immigrant preadolescent children in Guangdong
LUN Jingxian, ZOU Jinhu, GAO Xuefeng, HE Xiaolong, GONG Zelong, LI Yubin, ZHOU Chengxing, CAO Hong
- 754 Effect of long non-coding RNA CTO-S on the replication of pseudorabies virus
SU Le, DUAN Longchuan, JIANG Hui, FU Wen, LI Lintao, CHEN Huanchun, LIU Zhengfei

(本期责编：张晓丽)