

中文目次

综述

- 3711** 微生物降解玉米赤霉烯酮的研究进展
赵天祥, 余祖华, 丁轲, 廖成水
- 3727** 典型重金属对氯苯类有机物生物转化影响及分子机制研究进展
苟芳, 陈灏, 邢志林, 赵天涛
- 3746** 黏蛋白阿克曼菌辅助治疗恶性肿瘤的研究进展
唐海茹, 解有成, 李娜, 王盼, 于晓辉
- 3758** 基因工程菌的构建、性能研究及其在疾病诊断和治疗中的应用
卢雯, 刘睿娜, 雷璞, 马现仓, 朱峰
- 3773** 无菌动物及其在微生物与宿主互作机制研究中的应用
石伟雄, 李雪, 朱华, 苏磊, 秦川

研究报告

- 3784** 毕赤酵母胞嘧啶碱基编辑器的设计与功能评价
张小鹏, 胡喧, 刘曦雨, 沈跃峰, 王仲泉, 张晓鹏
- 3793** 减磷配施有机肥对丛枝菌根真菌群落的复杂度和稳定性的短期效应
谢小雨, 刘顺莉, 陈远学, 陈新平, 郎明
- 3811** 硫酸盐对淡水养殖池塘表层底泥微生物的影响
代梨梨, 彭亮, 陶玲, 郝柳柳, 张辉, 李谷
- 3825** 生物膜形成中间状态下副溶血弧菌的基因转录谱分析
黄圣勇, 张苗苗, 李雪, 陆仁飞, 张义全, 周敏
- 3843** 奥奈达希瓦氏菌CctA介导周质甲基橙还原的电子传递机理
金小雨, 李道波, 郑晓丹, 宋达, 陈乐天, 许玫英
- 3858** *Pseudomonas oryziphilans* EN-F4菌株的脱氮特征及羟胺对其脱氮过程的促进作用
谢尧旭, 张漫漫, 何腾霞, 卢海凤, 陈亚
- 3876** 谷氨酸棒杆菌不同生长时期非编码sRNA的预测与鉴定
王弋, 范志豪, 饶志明, 徐美娟

- 3891** 卡伍尔氏链霉菌NA4的II型聚酮基因簇的靶向激活及其产物鉴定
刘晶莹, 白岩, 潘华奇, 胡江春
- 3905** 一株枯草芽孢杆菌原噬菌体Bsu-yong1的基因组分析
刘文才, 钱敏桦, 潘灵婷, 林威, 许丽华, 任晓清, 李登峰, 童贻刚
- 3923** 地衣芽孢杆菌对南美白对虾零水交换养殖系统细菌群落的影响(英文)
梁庆建, 刘郑欣宇, 李中华, 毛怡清, 刘媛, 王维娜
- 3939** 药用植物刺山柑不同部位细菌群落结构及其多样性
吕佩, 王新绘, 刘晓颖, 耿美菊
- 3955** 2017-2022年中国口蹄疫流行状况分析
何继军, 马维民, 吕律, 靳野, 杨亚民, 杨帆, 曹伟军, 刘永杰, 吴锦艳, 张向乐, 朱紫祥, 郭建宏, 刘在新, 刘湘涛, 郑海学
- 3967** 高寒特境中甸黄芪植物根际微生物物种多样性及其抗生物膜活性成分
龚高芬, 龚峥嵘, 周国军, 丁佳洁, 申晓春, 陈晓洁, 姜北, 王开玲
- 3987** 探讨不同浓度的清郁和降汤对反流性食管炎大鼠肠道菌群的影响
周易, 黄雨晴, 叶松
- 4000** 高耐酸酒球菌常压室温等离子体诱变选育及其苹果酸-乳酸发酵研究
张莉方, 徐宁莉, 陶瑾, 胡雷, 张国强
- 4016** 基于转录组和加权基因共表达网络的广叶绣球菌木质纤维素降解特性分析
肖冬来, 马璐, 杨驰, 刘晓瑜, 林辉, 江晓凌
- 4034** 西藏青稞根际细菌群落结构及多样性
巩文峰, 魏丽萍, 杜娟, 王泽莹, 马占鸿
- 4051** 内生真菌KLBMP0506对拟南芥的促生作用
陈雨杰, 蒋侄丽, 柳巧, 徐欢, 吕梦娇, 蒋继宏, 李露丹

技术与方法

- 4064** CRISPR/Cas9介导的USP30基因敲除细胞系的建立及其对寨卡病毒增殖的影响
赵振翔, 张向乐, 杨帆, 曹伟军, 顾峰幸, 李康丽, 郑海学, 王雯慧, 朱紫祥

其他

- 4075** 撤稿声明

CONTENTS

REVIEWS

- 3711** Research progress in microbial degradation of zearalenone
ZHAO Tianxiang, YU Zuhua, DING Ke, LIAO Chengshui
- 3727** Progress in the effects and molecular mechanisms of typical heavy metals on the biotransformation of chlorobenzenes
GOU Fang, CHEN Hao, XING Zhilin, ZHAO Tiantao
- 3746** *Akkermansia muciniphila* in adjuvant treatment of malignant tumors
TANG Hairu, XIE Youcheng, LI Na, WANG Pan, YU Xiaohui
- 3758** Genetically engineered bacteria: construction, performance evaluation, and applications in disease diagnosis and treatment
LU Wen, LIU Ruina, LEI Pu, MA Xiancang, ZHU Feng
- 3773** Application of germ-free animals in the research on the mechanisms of microorganism-host interactions
SHI Weixiong, LI Xue, ZHU Hua, SU Lei, QIN Chuan

RESEARCH ARTICLES

- 3784** Design and function evaluation of cytosine base editors in *Pichia pastoris*
ZHANG Xiaojuan, HU Xuan, LIU Xiyu, SHEN Yuefeng, WANG Zhongxiao, ZHANG Xiaopeng
- 3793** Short-term effects of application of reduced phosphorus fertilizer combined with manure on the community complexity and stability of arbuscular mycorrhizal fungi
XIE Xiaoyu, LIU Shunli, CHEN Yuanxue, CHEN Xinping, LANG Ming
- 3811** Effect of sulfate on surface sediment microorganisms in freshwater aquaculture ponds
DAI Lili, PENG Liang, TAO Ling, HAO Liuliu, ZHANG Hui, LI Gu
- 3825** Transcriptomic profile of *Vibrio parahaemolyticus* in the intermediate state of biofilm formation
HUANG Shengyong, ZHANG Miaomiao, LI Xue, LU Renfei, ZHANG Yiquan, ZHOU Min
- 3843** Electron transport mechanism of periplasmic methyl orange reduction mediated by CctA in *Shewanella oneidensis*
JIN Xiaoyu, LI Daobo, ZHENG Xiaodan, SONG Da, CHEN Letian, XU Meiyang
- 3858** Nitrogen removal characteristics of *Pseudomonas oryzae* EN-F4 with/without the supplementation of hydroxylamine
XIE Yaoyu, ZHANG Manman, HE Tengxia, LU Haifeng, CHEN Ya
- 3876** Prediction and identification of non-coding sRNAs in *Corynebacterium glutamicum* at different growth stages
WANG Yi, FAN Zhihao, RAO Zhiming, XU Meijuan

- 3891** Targeted activation and product identification of the type II polyketone gene cluster of *Streptomyces cavourensis* NA4
LIU Jingying, BAI Yan, PAN Huaqi, HU Jiangchun
- 3905** Genomic analysis of a *Bacillus subtilis* prophage vB_Bsu-yong1
LIU Wencai, QIAN Minhua, PAN Lingting, LIN Wei, XU Lihua, REN Xiaoqing, LI Dengfeng, TONG Yigang
- 3923** *Bacillus licheniformis* affects the bacterial community in the zero-water exchange aquaculture system of *Penaeus vannamei*
LIANG Qingjian, LIU Zhengxinyu, LI Zhonghua, MAO Yiqing, LIU Yuan, WANG Weina
- 3939** Bacterial diversity and communities in different parts of the medicinal plant *Capparis spinosa* L.
LÜ Pei, WANG Xinhui, LIU Xiaoying, GENG Meiju
- 3955** Epidemiological characteristics of foot-and-mouth disease in China between 2017 and 2022
HE Jijun, MA Weimin, LÜ Lü, JIN Ye, YANG Yamin, YANG Fan, CAO Weijun, LIU Yongjie, WU Jinyan, ZHANG Xiangle, ZHU Zixiang, GUO Jianhong, LIU Zaixin, LIU Xiangtao, ZHENG Haixue
- 3967** Species diversity and anti-biofilm components of rhizosphere microorganisms derived from *Astragalus forrestii* in special high-cold environments
GONG Gaofen, DOU Zhengrong, ZHOU Guojun, DING Jiajie, SHEN Xiaochun, CHEN Xiaojie, JIANG Bei, WANG Kailing
- 3987** Different concentrations of Qingyu Hejiang Decoction regulate intestinal flora in rats with reflux esophagitis
ZHOU Yi, HUANG Yuqing, YE Song
- 4000** Atmospheric and room temperature plasma mutagenesis and malolactic fermentation of highly acid-tolerant *Oenococcus oeni*
ZHANG Lifang, XU Ningli, TAO Jin, HU Lei, ZHANG Guoqiang
- 4016** Characterization of lignocellulose degradation by *Sparassis latifolia* based on transcriptomics and weighted gene co-expression network analysis
XIAO Donglai, MA Lu, YANG Chi, LIU Xiaoyu, LIN Hui, JIANG Xiaoling
- 4034** Structure and diversity of the bacterial community in the rhizosphere of highland barley in Xizang
GONG Wenfeng, WEI Liping, DU Juan, WANG Zeying, MA Zhanhong
- 4051** Growth-promoting mechanism of the endophytic fungus KLBMP0506 on *Arabidopsis thaliana*
CHEN Yujie, JIANG Zhili, LIU Qiao, XU Huan, LÜ Mengjiao, JIANG Jihong, LI Ludan

TECHNOLOGY AND METHOD

- 4064** HEK-293T cells with *USP30* knockout: construction using the CRISPR/Cas9 system and effects on Senecavirus A replication
ZHAO Zhenxiang, ZHANG Xiangle, YANG Fan, CAO Weijun, GU Fengxing, LI Kangli, ZHENG Haixue, WANG Wenhui, ZHU Zixiang