

中文目次

综述

- 4011 猪丁型冠状病毒拮抗细胞焦亡的研究进展**
孔令贺, 刘茜倩, 马婧姣, 孙建和, 严亚贤
- 4022 真菌几丁质酶研究进展**
庄钰鑫, 刘慧泉, 许铭
- 4036 极端微生物降解木质素的研究进展**
孙梦瑶, 常潇, 康志超, 于洪文
- 4054 益生菌的精准筛选与应用**
李佳, 黄京山, 吴红霞, 仇华吉, 孙元
- 4069 大熊猫肠道菌群的影响因素研究进展**
陈婷婷, 姚英, 董艳鹏, 周芯宇, 李明喜
- 4086 基于益生菌口服药物递送系统的研究进展**
李文, 刘夫锋
- 4106 空气微生物的分布特征及潜在健康风险的研究现状**
高梦珂, 李虎, 徐沛圆, 黄福义, 苏建强
- 4119 以光催化材料构建的生物杂化体驱动氮循环的研究进展**
郑静淇, 陈姗姗, 栾天罡
- 4134 铁载体偶联抗生素连接体优化的研究进展**
王园园, 刘正, 郭嘉亮

研究报告

- 4153 窖泥来源产己酸精简菌群的生料发酵特性**
秦昊, 刘志豪, 任聪, 徐岩
- 4171 硫化氢对水分逆境胁迫下大豆叶际和根内微生物群落结构的影响**
程华平, 索冰玉, 王冯姝雅, 涂龙群, 陈娟
- 4190 不同翅型豌豆修尾蚜细菌群落组成及多样性**
陈冉, 皇甫宁博, 王利沙, 王丽, 李东阳, 姬继超, 崔珺瑜, 朱香镇, 张开心, 马德英, 崔金杰
- 4204 具核梭杆菌外膜囊泡的免疫原性**
葛树爱, 张旭强, 苏日娜, 孙浩洋, 王豫鑫, 郑维, 权春善
- 4219 噪音环境对黄土边坡微生物群落的影响**
李明凯, 赵丽萍, 李学珍, 杭鑫余, 田丽娇, 陈莉
- 4234 两种根癌农杆菌储铁蛋白功能的鉴定和体外自组装**
周琴, 高苗苗, 潘晓玥, 王浩, 徐楠, 郭敏亮
- 4248 阴道源抑菌性乳杆菌的筛选及其抑菌能力的评价**
董盼盼, 孟越, 辛向鸽, 孟珺, 丁长河, 杜涵, 宋立人, 郑冬鸽, 杜灵广

- 4262 内质网应激反应在PMT1基因调控酿酒酵母细胞寿命和自噬中的作用**
崔晓静, 袁嶂, 杨晓迪, 张恒恒, 管文斌, 王俊芳, 庞晓飞, 崔红晶
- 4271 转录组揭示禾谷镰刀菌酸碱胁迫条件下的基因表达模式**
尚余平, 王一唯, 王冠, 李涵琪, 李鹏峰, 郭杰, 张翠军
- 4290 一株产灵菌红素黏质沙雷氏菌的分离鉴定及其基因组分析**
张雨欣, 王美燕, 李殿怡, 司军, 卞小莹, 牛国清, 刘蓉
- 4308 单核细胞增生李斯特菌二硫键形成蛋白DsbA调控胞间迁移的机制**
王喆, 蒋国, 李静静, 王建峰, 许礼冬, 徐加利, 付展鸿, 秦潜, 宋厚辉, 程昌勇, 夏菁
- 4319 饲喂塑料对4种昆虫幼虫生长与肠道微生物的影响**
胡佳辰, 刘光玲, 黄石涛, 李子俊, 张洪波, 冯俊娜, 熊德玉, 张瑜瑜, 莫丽玲, 孔云虹, 夏云
- 4338 基于16S rRNA基因高通量绝对定量解析黄河入海口淡水与海水水体细菌群落特征**
鲍文秀, 陈明, 张闻, 汤佳豪, 李瑜婷, 古鹏, 卢媛
- 4358 化能自养硫氧化细菌Halothiobacillus diazotrophicus低氧硫氧化特性及其机制**
严洪珊, 林炜铁, 罗剑飞
- 4371 咖啡酸合成途径重构及其在大肠杆菌中的异源表达**
刘蓉, 王美燕, 杜红毅, 刘硕, 栾孟澳, 唐游, 廖凤霞, 牛国清
- 4388 浙江省养鳖场中细菌耐药性及bla_{NDM}传播特性**
张琦, 李思思, 张章晟, 孙允, 储珊珊, 沈涛, 程莫然, 韩剑众, 曲道峰
- 4403 铜绿假单胞菌antABC操纵子的生物学效应分析**
李治盈, 李盼欣, 宁婉清, 李兰, 韩嘉仪, 成娟丽, 林金水

技术与方法

- 4425 光滩生物膜的鉴定和组成分析**
付韵涵, 叶永炼, 马阔建, 许学伟, 孙聪
- 4440 基于SHAPE-seq技术解析大肠杆菌典型5'mRNA结构特征及其对基因表达的影响**
张金鹏, 任家卫, 梅子轮, 张晓梅, 徐国强, 李会, 史劲松, 许正宏, 张晓娟

数据论文

- 4455 鸭疫里默氏杆菌耐药基因传播方式的鉴定及分布**
杨宇豪, 姚弈舟, 朱德康, 张相德, 程安春, 刘马峰

CONTENTS

REVIEWS

- 4011** Antagonism of pyroptosis by porcine deltacoronavirus
KONG Linghe, LIU Xiqian, MA Jingjiao, SUN Jianhe, YAN Yaxian
- 4022** Research progress in fungal chitinases
ZHUANG Yuxin, LIU Huiquan, XU Ming
- 4036** Lignin degradation by extremophiles
SUN Mengyao, CHANG Xiao, KANG Zhichao, YU Hongwen
- 4054** Precise screening and applications of probiotics
LI Jia, HUANG Jingshan, WU Hongxia, QIU Hua-Ji, SUN Yuan
- 4069** Research progress in the influencing factors of the gut microbiota in giant pandas
CHEN Tingting, YAO Ying, DONG Yanpeng, ZHOU Xinyu, LI Mingxi
- 4086** Research progress in oral delivery systems with probiotics as carriers
LI Wen, LIU Fufeng
- 4106** Distribution characteristics and potential health risks of airborne microorganisms
GAO Mengke, LI Hu, XU Peiyuan, HUANG Fuyi, SU Jianqiang
- 4119** Research progress in nitrogen cycling driven by biohybrids constructed with photocatalytic materials
ZHENG Jingqi, CHEN Shanshan, LUAN Tiangang
- 4134** Research advances of linkers in the design of siderophore-antibiotic conjugates
WANG Yuanyuan, LIU Zheng, GUO Jialiang

RESEARCH ARTICLES

- 4153** Fermentation characteristics of unsterilized feedstock with a simplified caproate-producing microbial consortium
QIN Hao, LIU Zhihao, REN Cong, XU Yan
- 4171** Effects of hydrogen sulfide on the structures of phyllosphere and rhizosphere microbial communities of soybean plants under drought stress
CHENG Huaping, SUO Bingyu, WANG Fengshuya, TU Longqun, CHEN Juan
- 4190** Community structure and diversity of bacteria in winged and wingless *Megoura crassicauda*
CHEN Ran, HUANGFU Ningbo, WANG Lisha, WANG Li, LI Dongyang, JI Jichao, LUO Junyu, ZHU Xiangzhen, ZHANG Kaixin, MA Deying, CUI Jinjie
- 4204** Immunogenicity of outer membrane vesicles of *Fusobacterium nucleatum*
GE Shu'ai, ZHANG Xuqiang, SU Rina, SUN Haoyang, WANG Yuxin, ZHENG Wei, QUAN Chunshan
- 4219** Noise affects microbial communities on loess slopes
LI Mingkai, ZHAO Liping, LI Xuezhen, HANG Xinyu, TIAN Lijiao, CHEN Li
- 4234** Functional identification and *in vitro* self-assembly of two ferritins of *Agrobacterium fabrum*
ZHOU Qin, GAO Miaomiao, PAN Xiaoyue, WANG Hao, XU Nan, GUO Minliang
- 4248** Screening and antimicrobial activity evaluation of antimicrobial *Lactobacillus* strains from vagina
DONG Panpan, MENG Yue, XIN Xiangge, MENG Jun, DING Changhe, DU Han, SONG Liren, ZHENG Dongge, DU Lingguang

- 4262** Effects of endoplasmic reticulum stress on the regulation of the lifespan and autophagy of *Saccharomyces cerevisiae* by *PMT1*
CUI Xiaojing, YUAN Di, YANG Xiaodi, ZHANG Hengheng, GUAN Wenbin, WANG Junfang, PANG Xiaofei, CUI Hongjing
- 4271** Transcriptomics reveals gene expression patterns of *Fusarium graminearum* under pH stress
SHANG Yuping, WANG Yiwei, WANG Guan, LI Hanqi, LI Pengfeng, GUO Jie, ZHANG Cuijun
- 4290** Isolation, identification, and genomic analysis of a prodigiosin-producing strain of *Serratia marcescens*
ZHANG Yuxin, WANG Meiyan, LI Dianyi, SI Jun, BIAN Xiaoying, NIU Guoqing, LIU Rong
- 4308** The disulfide bond formation protein DsbA in *Listeria monocytogenes* regulates cell-to-cell spread
WANG Zhe, JIANG Guo, LI Jingjing, WANG Jianfeng, XU Lidong, XU Jiali, FU Zhanhong, QIN Qian, SONG Houhui, CHENG Changyong, XIA Jing
- 4319** Effects of feeding plastics on the growth and gut microbiota of the larvae of four insect species
HU Jiachen, LIU Guangling, HUANG Shitao, LI Zijun, ZHANG Hongbo, FENG Junna, XIONG Deyu, ZHANG Yuyu, MO Liling, KONG Yunhong, XIA Yun
- 4338** Characterization of bacterial communities in freshwater and seawater of the Yellow River estuary by 16S rRNA gene high-throughput absolute abundance quantification
BAO Wenxiu, CHEN Ming, ZHANG Wen, TANG Jiahao, LI Yuting, GU Peng, LU Yuan
- 4358** Characteristics and mechanism of sulfur oxidation of *Halothiobacillus diazotrophicus* exposed to low oxygen
YAN Hongshan, LIN Weitie, LUO Jianfei
- 4371** Reconstruction and heterologous expression of a biosynthetic pathway for caffeic acid in *Escherichia coli*
LIU Rong, WANG Meiyan, DU Hongyi, LIU Shuo, LUAN Meng'ao, TANG You, LIAO Fengxia, NIU Guoqing
- 4388** Antibiotic resistance and *bla*_{NDM} transmission characteristics of bacteria from turtle farms in Zhejiang Province
ZHANG Qi, LI Sisi, ZHANG Zhangsheng, SUN Yun, CHU Shanshan, SHEN Tao, CHENG Moran, HAN Jianzhong, QU Daofeng
- 4403** Biological effects of *antABC* operon on *Pseudomonas aeruginosa*
LI Zhiying, LI Panxin, NING Wanqing, LI Lan, HAN Jiayi, CHENG Juanli, LIN Jinshui

TECHNOLOGY AND METHOD

- 4425** Identification and composition analysis of biofilms on mudflat
FU Yunhan, YE Yonglian, MA Kuojian, XU Xuewei, SUN Cong
- 4440** SHAPE-seq reveals the typical 5'mRNA structure of *Escherichia coli* and its effect on gene expression
ZHANG Jinpeng, REN Jiawei, MEI Zilun, ZHANG Xiaomei, XU Guoqiang, LI Hui, SHI Jinsong, XU Zhenghong, ZHANG Xiaojuan

DATA PAPER

- 4455** Transmission ways and distribution of antibiotic resistance genes in *Riemerella anatipestifer*
YANG Yuhao, YAO Yizhou, ZHU Dekang, ZHANG Xiangde, CHENG Anchun, LIU Mafeng