

# 华南农业大学学报

第 41 卷 第 3 期 2020 年 5 月

## 目 次

日粮添加鱼油对高脂日粮饲喂小鼠肠道屏障功能的影响

··· 刘方方, 杨晓华, 张枫琳, 宋 敏, 苏 含, 朱晓彤, 束 刚, 王丽娜, 高 萍, 江青艳, 王松波(1)

利用 TALEN 系统对兔进行 *Tiki1* 基因敲除

····· 吴彩霞, 刘朝明, 颜泉梅, 张全军, 欧阳振, 赵 宇, 樊娜娜, 赖良学(9)

H9N2 禽流感病毒全基因组密码子使用偏好性及影响因素分析

····· 黄蔚虹, 陈永杰, 孙彦阔, 孙卫东(15)

油菜-水稻轮作模式下油菜季氮肥投入与水稻季氮肥运筹对杂交籼稻光合生产力及产量的影响

····· 马 鹏, 杨志远, 李 娜, 李 郁, 吕 旭, 孙永健, 马 均(23)

蔗田滴灌施肥土壤甲烷排放通量与活性有机碳含量的关系

····· 白 雪, 农梦玲, 龙鹏宇, 李伏生(31)

稻草覆盖量对川芎生长发育、干物质积累及产量和品质的影响

····· 刘宝莲, 郭俊霞, 吴 萍, 王晓宇, 张松林, 杨小倩, 卢常芳, 李青苗(38)

野生与人工栽培铁皮石斛内生真菌生物多样性比较及抗炭疽病活性菌株的筛选

····· 刘艳明, 黄雅丽, 李 婷, 冯美茹, 施文广, 邓祖军(47)

1 株耐铜、锌离子土霉素降解菌的筛选鉴定及特性

····· 刘姗姗, 陈玉立, 洪 文, 吴奇霞, 卢存龙, 刘爱民(56)

柑橘黄龙病菌对沙田柚田间性状和果实品质的影响

····· 吴丰年, 戴泽翰, 郑 昱, 陈仰泓, 许美容, 岑伊静, 邓晓玲(63)

苯基吡唑类化合物的合成、杀虫活性及对蜜蜂的毒性

····· 杨 帅, 江薰垣, 张 悦, 赵 晨, 徐汉虹(72)

噻虫嗪对褐飞虱的毒力及解毒代谢酶活性的影响

····· 张钰明, 向 兴, 王学贵(80)

高州油茶人工林碳储量分布特征

····· 郭梦晴, 杨 颖, 许 叶, 奚如春(86)

广东地区果用银杏林的叶片营养诊断研究

····· 欧阳健辉, 吴道铭, 廖丹丹, 彭维新, 苏思宁, 曾曙才(93)

气吸式辣椒精量穴直播机的研制与试验

····· 曾 山, 姚腊梅, 李 凝, 杨禹锴, 黄登攀, 方龙羽, 莫泽文(102)

基于优化卷积神经网络的玉米螟虫害图像识别

····· 李 静, 陈桂芬, 安 宇(110)

耕地质量低空遥感-地面传感双重采集系统研究

····· 张飞扬, 胡月明, 陈联诚, 王广兴(117)

基于像元二分法的冬小麦植被覆盖度提取模型

····· 孟沌超, 赵 静, 兰玉彬, 鲁力群, 杨焕波, 李志铭, 闫春雨(126)

CONTENTS

- Effect of dietary supplementation of fish oil on intestinal barrier function in mouse fed with high-fat diet  
..... LIU Fangfang, YANG Xiaohua, ZHANG Fenglin, SONG Min, SU Han, ZHU Xiaotong,  
SHU Gang, WANG Lina, GAO Ping, JIANG Qingyan, WANG Songbo (1)
- Gene knockout of *Tiki1* gene in rabbit by TALEN system  
..... WU Caixia, LIU Zhaoming, YAN Quanmei, ZHANG Quanjun, OUYANG Zhen, ZHAO Yu, FAN Nana, LAI Liangxue (9)
- Codon usage bias of H9N2 avian influenza virus complete genomes and its influence factors  
.....HUANG Weihong, CHEN Yongjie, SUN Yankuo, SUN Weidong (15)
- Effects of nitrogen fertilizer application in rape season and nitrogen fertilizer management in rice season on photosynthetic productivity and yield of hybrid *japonica* rice under rape-rice rotation mode  
..... MA Peng, YANG Zhiyuan, LI Na, LI Yu, LÜ Xu, SUN Yongjian, MA Jun (23)
- Relationship between soil methane emission flux and active organic carbon content in sugarcane field under drip fertigation  
..... BAI Xue, NONG Mengling, LONG Pengyu, LI Fusheng (31)
- Effects of straw cover amount on growth and development, dry matter accumulation, yield and quality of *Ligusticum chuanxiong*  
..... LIU Baolian, GUO Junxia, WU Ping, WANG Xiaoyu, ZHANG Songlin, YANG Xiaoqian, LU Changfang, LI Qingmiao (38)
- Biodiversity comparison of endophytic fungi from wild and artificially cultivated *Dendrobium officinale* and screening of fungal strains with anti-anthraxose activities ..... LIU Yanming, HUANG Yali, LI Ting, FENG Meiru, SHI Wenguang, DENG Zujun (47)
- Screening and identification of an oxytetracycline degradation strain resistant to Cu<sup>2+</sup> and Zn<sup>2+</sup> and its characteristics  
..... LIU Shanshan, CHEN Yuli, HONG Wen, WU Qixia, LU Cunlong, LIU Aimin (56)
- Effects of citrus Huanglongbing pathogen on agronomic characteristic and fruit quality of *Citrus maxima* cv. Shatian Yu  
.....WU Fengnian, DAI Zehan, ZHENG Yu, CHEN Yanghong, XU Meirong, CEN Yijing, DENG Xiaoling (63)
- Synthesis, insecticidal activity and toxicity to bees of phenylpyrazoles  
..... YANG Shuai, JIANG Xunyuan, ZHANG Yue, ZHAO Chen, XU Hanhong (72)
- Effects of thiamethoxam on toxicity and detoxification metabolic enzyme activity of *Nilaparvata lugens*  
..... ZHANG Yuming, XIANG Xing, WANG Xuegui (80)
- Carbon storage and distribution characteristics of *Camellia gauchowensis* plantation  
..... GUO Mengqing, YANG Ying, XU Ye, XI Ruchun (86)
- Foliar nutrient diagnosis for fruit forest of *Ginkgo biloba* in Guangdong  
..... OUYANG Jianhui, WU Daoming, LIAO Dandan, PENG Weixin, SU Sining, ZENG Shucui (93)
- Development and test of an air-suction type precision direct seeding machine for pepper  
.....ZENG Shan, YAO Lamei, LI Ning, YANG Yukun, HUANG Dengpan, FANG Longyu, MO Zewen (102)
- Image recognition of *Pyrausta nubilalis* based on optimized convolutional neural network  
..... LI Jing, CHEN Guifen, AN Yu (110)
- Low altitude remote sensing-ground sensing double collection system for farmland quality  
..... ZHANG Feiyang, HU Yueming, CHEN Liancheng, WANG Guangxing (117)
- Vegetation coverage extraction model of winter wheat based on pixel dichotomy  
..... MENG Dunchao, ZHAO Jing, LAN Yubin, LU Liqun, YANG Huanbo, LI Zhiming, YAN Chunyu (126)