



目 次

作物遗传育种·种质资源·分子遗传学

4709-4727 doi: 10.3864/j.issn.0578-1752.2021.22.001

小麦 TaNAC 基因基于可变剪切和 microRNA 的转录后调控分析

吕士凯 马小龙 张敏 邓平川 陈春环 张宏 刘新伦 吉万全

4728-4739 doi: 10.3864/j.issn.0578-1752.2021.22.002

转基因玉米 NK603 转化体/zSSIIb 内标基因二重微滴数字 PCR 方法的建立及应用

肖芳 李俊 王颢潜 翟彬彬 陈子言 高鸿飞 李允静 吴刚 张秀杰 武玉花

4740-4749 doi: 10.3864/j.issn.0578-1752.2021.22.003

基于新遗传连锁图谱的豇豆抗豆象 QTL 定位

王彦 范保杰 曹志敏 张志肖 苏秋竹 王珅 王学清 彭秀国 梅丽 武玉华 刘少兴 田胜民 徐俊杰 蒋春志 王伟娟 刘长友 田静

耕作栽培·生理生化·农业信息技术

4750-4760 doi: 10.3864/j.issn.0578-1752.2021.22.004

西北干旱灌区不同地膜覆盖利用方式对玉米水分利用的影响

殷文 郭瑶 范虹 樊志龙 胡发龙 于爱忠 赵财 柴强

4761-4777 doi: 10.3864/j.issn.0578-1752.2021.22.005

有效积温与不同氮磷钾处理夏玉米株高和叶面积指数定量化关系

陈杨 王磊 自由路 卢艳丽 倪露 王玉红 徐孟泽

4778-4786 doi: 10.3864/j.issn.0578-1752.2021.22.006

农业生产风险评估及农业保险费率厘定的不确定性：研究进展和破解之道

张峭 王克

植物保护

4787-4799 doi: 10.3864/j.issn.0578-1752.2021.22.007

我国苹果斑点落叶病菌携带 dsRNA 分析及一种 dsRNA 病毒的鉴定

曹钰晗 李紫腾 张静怡 张静娜 胡同乐 王树桐 王亚南 曹克强

4800-4812 doi: 10.3864/j.issn.0578-1752.2021.22.008

绿僵菌 *mad2* 敲除株构建及其生物学和诱导植物响应的功能分析

蔡霓 闫多子 农向群 王广君 涂雄兵 张泽华

4813-4825 doi: 10.3864/j.issn.0578-1752.2021.22.009

绿盲蝽 G 蛋白偶联受体激酶 2 基因 (*AIGRK2*) 的表达分析及在绿盲蝽生长发育中的功能

谭永安 姜义平 赵静 肖留斌

土壤肥料·节水灌溉·农业生态环境

4826-4839 doi: 10.3864/j.issn.0578-1752.2021.22.010
畜禽有机肥磷素在冬小麦上替代化肥磷当量研究
徐久凯 袁亮 温延臣 张水勤 林治安 李燕婷 李海燕 赵秉强

4840-4850 doi: 10.3864/j.issn.0578-1752.2021.22.011
东北黑土线虫群落对长期免耕后土壤扰动的响应
张梦亭 刘萍 黄丹丹 贾淑霞 张晓珂 张士秀 梁文举 陈学文 张延 梁爱珍

园艺

4851-4868 doi: 10.3864/j.issn.0578-1752.2021.22.012
大白菜 ACA 基因家族的全基因组鉴定与表达分析
王洁 吴晓宇 杨柳 段巧红 黄家保

4869-4879 doi: 10.3864/j.issn.0578-1752.2021.22.013
基于代谢组学分析丝瓜果肉褐变过程酚酸类物质变化
王雅慧 刘晓宏 雍明丽 熊爱生 苏小俊

4880-4893 doi: 10.3864/j.issn.0578-1752.2021.22.014
葡萄无核基因分子标记的通用性鉴定
陈豆豆 关利平 贺亮亮 宋银花 章鹏 刘三军

食品科学与工程

4894-4905 doi: 10.3864/j.issn.0578-1752.2021.22.015
超声对豌豆分离蛋白结构及乳化性能的调控效应
李朝蕊 韩馨蕊 范鑫 黄峻榕 曹云刚 熊幼翎

畜牧·兽医·资源昆虫

4906-4916 doi: 10.3864/j.issn.0578-1752.2021.22.016
饲料微量元素添加模式对肉仔鸡生长和胴体性能及肌肉品质的影响
张兰 王良治 黄艳玲 廖秀冬 张丽阳 吕林 罗绪刚

4917-4930 doi: 10.3864/j.issn.0578-1752.2021.22.017
葡萄糖氧化酶对大肠杆菌攻毒肉鸭生长性能、免疫功能及肠道健康的影响
刘娇 陈志敏 郑爱娟 刘国华 蔡辉益 常文环

4931-4932
勘误

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

4709-4727 doi: 10.3864/j.issn.0578-1752.2021.22.001
Post-transcriptional Regulation of TaNAC Genes by Alternative Splicing and MicroRNA in Common Wheat (*Triticum aestivum* L.)

LÜ ShiKai, MA XiaoLong, ZHANG Min, DENG PingChuan, CHEN ChunHuan, ZHANG Hong, LIU XinLun, JI WanQuan

4728-4739 doi: 10.3864/j.issn.0578-1752.2021.22.002
Establishment and Application of A Duplex ddPCR Method to Quantify the NK603/zSSIIb Copy Number Ratio in Transgenic Maize NK603

XIAO Fang, LI Jun, WANG HaoQian, ZHAI ShanShan, CHEN ZiYan, GAO HongFei, LI YunJing, WU Gang, ZHANG XiuJie, WU YuHua

4740-4749 doi: 10.3864/j.issn.0578-1752.2021.22.003
Quantitative Trait Locus Mapping of Bruchids Resistance Based on A Novel Genetic Linkage Map in Cowpea (*Vigna unguiculata*)

WANG Yan, FAN BaoJie, CAO ZhiMin, ZHANG ZhiXiao, SU QiuZhu, WANG Shen, WANG XueQing, PENG XiuGuo, MEI Li, WU YuHua, LIU ShaoXing, TIAN ShengMin, XU JunJie, JIANG ChunZhi, WANG WeiJuan, LIU ChangYou, TIAN Jing

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

4750-4760 doi: 10.3864/j.issn.0578-1752.2021.22.004
Effects of Different Plastic Film Mulching and Using Patterns on Soil Water Use of Maize in Arid Irrigated Area of Northwestern China

YIN Wen, GUO Yao, FAN Hong, FAN ZhiLong, HU FaLong, YU AiZhong, ZHAO Cai, CHAI Qiang

4761-4777 doi: 10.3864/j.issn.0578-1752.2021.22.005
Quantitative Relationship Between Effective Accumulated Temperature and Plant Height & Leaf Area Index of Summer Maize Under Different Nitrogen, Phosphorus and Potassium Levels

CHEN Yang, WANG Lei, BAI YouLu, LU YanLi, NI Lu, WANG YuHong, XU MengZe

4778-4786 doi: 10.3864/j.issn.0578-1752.2021.22.006
The Uncertainty of Agricultural Yield Risk Assessment and Agricultural Insurance Pricing: Literature Review and Wayforward

ZHANG Qiao, WANG Ke

PLANT PROTECTION

4787-4799 doi: 10.3864/j.issn.0578-1752.2021.22.007
Analysis of dsRNA Carried by *Alternaria alternata* f. sp. *mali* in China and Identification of a dsRNA Virus

CAO YuHan, LI ZiTeng, ZHANG JingYi, ZHANG JingNa, HU TongLe, WANG ShuTong, WANG YaNan, CAO KeQiang

4800-4812 doi: 10.3864/j.issn.0578-1752.2021.22.008
Adhesin Gene *mad2* Knockout and Functional Effects on Biological Characteristics and Inducing Plant Responses in *Metarhizium anisopliae*

CAI Ni, YAN DuoZi, NONG XiangQun, WANG GuangJun, TU XiongBing, ZHANG ZeHua

4813-4825

doi: 10.3864/j.issn.0578-1752.2021.22.009

Expression Profile of G Protein-Coupled Receptor Kinase 2 Gene (*AIGRK2*) and Its Function in the Development of *Apolygus lucorum*

TAN YongAn, JIANG YiPing, ZHAO Jing, XIAO LiuBin

SOIL & FERTILIZER·WATER-SAVING IRRIGATION·AGROECOLOGY & ENVIRONMENT

4826-4839

doi: 10.3864/j.issn.0578-1752.2021.22.010

Phosphorus Fertilizer Replacement Value of Livestock Manure in Winter Wheat

XU JiuKai, YUAN Liang, WEN YanChen, ZHANG ShuiQin, LIN ZhiAn, LI YanTing, LI HaiYan, ZHAO BingQiang

4840-4850

doi: 10.3864/j.issn.0578-1752.2021.22.011

Response of Nematode Community to Soil Disturbance After Long-Term No-Tillage Practice in the Black Soil of Northeast China

ZHANG MengTing, LIU Ping, HUANG DanDan, JIA ShuXia, ZHANG XiaoKe, ZHANG ShiXiu, LIANG WenJu, CHEN XueWen, ZHANG Yan, LIANG AiZhen

HORTICULTURE

4851-4868

doi: 10.3864/j.issn.0578-1752.2021.22.012

Genome-Wide Identification and Expression Analysis of ACA Gene Family in *Brassica rapa*

WANG Jie, WU XiaoYu, YANG Liu, DUAN QiaoHong, HUANG JiaBao

4869-4879

doi: 10.3864/j.issn.0578-1752.2021.22.013

Analysis of Changes in Phenolic Acids of *Luffa cylindrica* Pulp During Browning Based on Metabolomics

WANG YaHui, LIU XiaoHong, YONG MingLi, XIONG AiSheng, SU XiaoJun

4880-4893

doi: 10.3864/j.issn.0578-1752.2021.22.014

Commonality Identification of Molecular Markers Linked to Seedless Genes in Grape

CHEN DouDou, GUAN LiPing, HE LiangLiang, SONG YinHua, ZHANG Peng, LIU SanJun

FOOD SCIENCE AND ENGINEERING

4894-4905

doi: 10.3864/j.issn.0578-1752.2021.22.015

Regulation Effects of Ultrasound on the Structure and Emulsification Properties of Pea Protein Isolate

LI ZhaoRui, HAN XinRui, FAN Xin, HUANG JunRong, CAO YunGang, XIONG YouLing

ANIMAL SCIENCE·VETERINARY SCIENCE·RESOURCE INSECT

4906-4916

doi: 10.3864/j.issn.0578-1752.2021.22.016

Effects of Dietary Supplemental Pattern of Trace Elements on the Growth Performance, Carcass Traits and Meat Quality of Broilers

ZHANG Lan, WANG LiangZhi, HUANG YanLing, LIAO XiuDong, ZHANG LiYang, LÜ Lin, LUO XuGang

4917-4930

doi: 10.3864/j.issn.0578-1752.2021.22.017

Effects of Glucose Oxidase on Growth Performance, Immune Functions and Intestinal Health of Ducks Challenged by *Escherichia coli*

LIU Jiao, CHEN ZhiMin, ZHENG AiJuan, LIU GuoHua, CAI HuiYi, CHANG WenHuan

4931-4932

Corrigenda
