



## 目次

### 作物遗传育种·种质资源·分子遗传学

3473-3483 doi: 10.3864/j.issn.0578-1752.2022.18.001  
小麦周 8425B×小偃 81 重组自交系群体千粒重相关性状的 QTL 定位及单倍型分析  
邹林翰 周新颖 张泽源 蔚睿 袁梦 宋晓朋 简俊涛 张传量 韩德俊 宋全昊

3484-3500 doi: 10.3864/j.issn.0578-1752.2022.18.002  
马铃薯品种(系)田间晚疫病抗性评价和全基因组遗传多样性分析  
李晓川 王朝海 周平 马维 吴瑞 宋治豪 梅艳

### 耕作栽培·生理生化·农业信息技术

3501-3515 doi: 10.3864/j.issn.0578-1752.2022.18.003  
干旱灌区麦后复种绿肥与施氮水平对小麦光合性能与产量的影响  
麻碧娇 苟志文 殷文 于爱忠 樊志龙 胡发龙 赵财 柴强

3516-3529 doi: 10.3864/j.issn.0578-1752.2022.18.004  
高温干旱复合胁迫对夏玉米产量及光合特性的影响  
李小凡 邵靖宜 于维祯 刘鹏 赵斌 张吉旺 任佰朝

3530-3542 doi: 10.3864/j.issn.0578-1752.2022.18.005  
干旱胁迫下春玉米冠层吐丝动态及籽粒数模拟研究  
王梦琪 米娜 王靖 张玉书 纪瑞鹏 陈妮娜 刘霞霞 韩颖 李王轶朴 张佳莹

### 植物保护

3543-3555 doi: 10.3864/j.issn.0578-1752.2022.18.006  
本氏烟 *NbMBF1c* 的克隆、表达及在 TMV 侵染过程中的功能  
温玉霞 张坚 王琴 王靖 裴悦宏 田绍锐 樊光进 马小舟 孙现超

3556-3564 doi: 10.3864/j.issn.0578-1752.2022.18.007  
马铃薯晚疫病菌对霜脲菌抗性动态监测及药效验证  
路粉 孟润杰 吴杰 赵建江 李洋 毕秋艳 韩秀英 李敬华 王文桥

### 土壤肥料·节水灌溉·农业生态环境

3565-3583 doi: 10.3864/j.issn.0578-1752.2022.18.008  
世界主要国家土壤调查工作回顾  
张维理 Kolbe H 张认连 张定祥 白占国 张晶 师华定

3584-3599

doi: 10.3864/j.issn.0578-1752.2022.18.009

近十年安徽省秸秆直接还田研究进展

马超 王玉宝 邬刚 王泓 汪建飞 朱林 李佳佳 马晓静 柴如山

3600-3612

doi: 10.3864/j.issn.0578-1752.2022.18.010

酸性土壤硝化作用对柑橘铵毒害的效应

范子哈 罗雅尹 熊华焯 张育文 康福蓉 王昱桁 王洁 石孝均 张跃强

## 园艺

3613-3628

doi: 10.3864/j.issn.0578-1752.2022.18.011

84个苹果栽培品种对斑点落叶病的抗性评价和全基因组关联分析

储宝华 曹富国 卞宁宁 钱谦 李中兴 李雪薇 刘泽远 马锋旺 管清美

3629-3639

doi: 10.3864/j.issn.0578-1752.2022.18.012

中国观赏芍药表型多样性解析与资源评价

万映伶 朱梦婷 刘爱青 金亦佳 刘燕

## 食品科学与工程

3640-3651

doi: 10.3864/j.issn.0578-1752.2022.18.013

基于消费者喜好性评价宰后不同阶段羊肉食用品质差异

葛岳 张德权 李少博 陈丽 郑晓春 梁策 颜统晶 李金活 王振宇

## 畜牧·兽医

3652-3663

doi: 10.3864/j.issn.0578-1752.2022.18.014

IL-15过表达对猪骨骼肌细胞成肌分化的影响

邢明杰 顾宪红 王泉鸿 郝月

3664-3674

doi: 10.3864/j.issn.0578-1752.2022.18.015

昼夜节律与肉羊养分消化代谢和瘤胃发酵参数的关联

张春桃 马涛 屠焰 刁其玉

3675-3684

doi: 10.3864/j.issn.0578-1752.2022.18.016

核蛋白H-NS调控多重耐药鸡大肠埃希菌IncF II质粒接合转移的分子机制

贾雅婷 胡慧慧 翟亚军 赵冰 何坤 潘玉善 胡功政 苑丽

## CONTENTS

**CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS**

3473-3483

doi: 10.3864/j.issn.0578-1752.2022.18.001

**QTL Mapping of Thousand-Grain-Weight and Its Related Traits in Zhou 8425B × Xiaoyan 81 Population and Haplotype Analysis**

ZOU LinHan, ZHOU XinYing, ZHANG ZeYuan, YU Rui, YUAN Meng, SONG XiaoPeng, JIAN JunTao, ZHANG ChuanLiang, HAN DeJun, SONG QuanHao

3484-3500

doi: 10.3864/j.issn.0578-1752.2022.18.002

**Deciphering of the Genetic Diversity After Field Late Blight Resistance Evaluation of Potato Breeds**

LI XiaoChuan, WANG ChaoHai, ZHOU Ping, MA Wei, WU Rui, SONG ZhiHao, MEI Yan

**TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY**

3501-3515

doi: 10.3864/j.issn.0578-1752.2022.18.003

**Effects of Multiple Cropping Green Manure After Wheat Harvest and Nitrogen Application Levels on Wheat Photosynthetic Performance and Yield in Arid Irrigated Area**

MA BiJiao, GOU ZhiWen, YIN Wen, YU AiZhong, FAN ZhiLong, HU FaLong, ZHAO Cai, CHAI Qiang

3516-3529

doi: 10.3864/j.issn.0578-1752.2022.18.004

**Combined Effects of High Temperature and Drought on Yield and Photosynthetic Characteristics of Summer Maize**

LI XiaoFan, SHAO JingYi, YU WeiZhen, LIU Peng, ZHAO Bin, ZHANG JiWang, REN BaiZhao

3530-3542

doi: 10.3864/j.issn.0578-1752.2022.18.005

**Simulation of Canopy Silking Dynamic and Kernel Number of Spring Maize Under Drought Stress**

WANG MengQi, MI Na, WANG Jing, ZHANG YuShu, JI RuiPeng, CHEN NiNa, LIU XiaXia, HAN Ying, LI WangYiPu, ZHANG JiaYing

**PLANT PROTECTION**

3543-3555

doi: 10.3864/j.issn.0578-1752.2022.18.006

**Cloning, Expression and Anti-TMV Function Analysis of *Nicotiana benthamiana* NbMBF1c**

WEN YuXia, ZHANG Jian, WANG Qin, WANG Jing, PEI YueHong, TIAN ShaoRui, FAN GuangJin, MA XiaoZhou, SUN XianChao

3556-3564

doi: 10.3864/j.issn.0578-1752.2022.18.007

**Monitoring of Resistance Dynamics of *Phytophthora infestans* to Cymoxanil and Control Efficacy Validation of Cymoxanil-Containing Fungicides Against Potato Late Blight**

LU Fen, MENG RunJie, WU Jie, ZHAO JianJiang, LI Yang, BI QiuYan, HAN XiuYing, LI JingHua, WANG WenQiao

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

3565-3583

doi: 10.3864/j.issn.0578-1752.2022.18.008

**Overview of Soil Survey Works in Main Countries of World**

ZHANG WeiLi, KOLBE H, ZHANG RenLian, ZHANG DingXiang, BAI ZhanGuo, ZHANG Jing, SHI HuaDing

3584-3599

doi: 10.3864/j.issn.0578-1752.2022.18.009

**Research Progress of Direct Straw Return in Anhui Province over the Last Decade**

MA Chao, WANG YuBao, WU Gang, WANG Hong, WANG JianFei, ZHU Lin, LI JiaJia, MA XiaoJing, CHAI RuShan

3600-3612

doi: 10.3864/j.issn.0578-1752.2022.18.010

**Effect of Nitrification on Ammonium Toxicity to Citrus in Acidic Soil**

FAN ZiHan, LUO YaYin, XIONG HuaYe, ZHANG YuWen, KANG FuRong, WANG YuHeng, WANG Jie, SHI XiaoJun, ZHANG YueQiang

**HORTICULTURE**

3613-3628

doi: 10.3864/j.issn.0578-1752.2022.18.011

**Resistant Evaluation of 84 Apple Cultivars to *Alternaria alternata* f. sp. *mali* and Genome-Wide Association Analysis**

CHU BaoHua, CAO FuGuo, BIAN NingNing, QIAN Qian, LI ZhongXing, LI XueWei, LIU ZeYuan, MA FengWang, GUAN QingMei

3629-3639

doi: 10.3864/j.issn.0578-1752.2022.18.012

**Phenotypic Diversity Analysis of Chinese Ornamental Herbaceous Peonies and Its Germplasm Resource Evaluation**

WAN YingLing, ZHU MengTing, LIU AiQing, JIN YiJia, LIU Yan

**FOOD SCIENCE AND ENGINEERING**

3640-3651

doi: 10.3864/j.issn.0578-1752.2022.18.013

**Eating Quality Evaluation of Lamb in Different Postmortem Phases Based on Consumers' Sensory Preferences**

GE Yue, ZHANG DeQuan, LI ShaoBo, CHEN Li, ZHENG XiaoChun, LIANG Ce, YAN TongJing, LI JinHuo, WANG ZhenYu

**ANIMAL SCIENCE·VETERINARY SCIENCE**

3652-3663

doi: 10.3864/j.issn.0578-1752.2022.18.014

**Effects of IL-15 Overexpression on Myoblast Differentiation of Porcine Skeletal Muscle Cells**

XING MingJie, GU XianHong, WANG XiaoHong, HAO Yue

3664-3674

doi: 10.3864/j.issn.0578-1752.2022.18.015

**Effects of Circadian Rhythm on Rumen Fermentation and Nutrient Digestion of Mutton Sheep**

ZHANG ChunTao, MA Tao, TU Yan, DIAO QiYu

3675-3684

doi: 10.3864/j.issn.0578-1752.2022.18.016

**Molecular Mechanism of Regulation by H-NS on IncF II Plasmid Transmission of Multi-drug Resistant Chicken *Escherichia coli***

JIA YaTing, HU HuiHui, ZHAI YaJun, ZHAO Bing, HE Kun, PAN YuShan, HU GongZheng, YUAN Li