



ISSN 0578-1752
CODEN CKNYAR

中国农业科学

SCIENTIA AGRICULTURA SINICA

第 53 卷 第 11 期

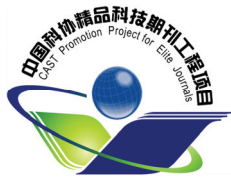
Vol. 53 No. 11

2020



中国农业科学院
中国农学会

主办



目次

作物遗传育种·种质资源·分子遗传学

- 2137-2148 doi: 10.3864/j.issn.0578-1752.2020.11.001
山西谷子地方品种农艺性状和品质性状的综合评价
刘思辰 曹晓宁 温琪汾 王海岗 田翔 王君杰 陈凌 秦慧彬 王纶 乔治军
- 2149-2160 doi: 10.3864/j.issn.0578-1752.2020.11.002
大豆 γ -生育酚的混合遗传分析与QTL定位
梁慧珍 许兰杰 董薇 余永亮 杨红旗 谭政委 李磊 刘新梅
- 2161-2170 doi: 10.3864/j.issn.0578-1752.2020.11.003
基于PCA-Entropy TOPSIS的甘薯品种块根质构品质评价
李玲 徐舒 曹如霞 陈玲玲 崔鹏 吕尊富 陆国权

耕作栽培·生理生化·农业信息技术

- 2171-2181 doi: 10.3864/j.issn.0578-1752.2020.11.004
宽幅播种旱作冬小麦幅间距与基因型对产量和水分利用效率的影响
赵刚 樊廷录 李兴茂 张建军 党翼 李尚中 王磊 王淑英 程万莉 倪胜利
- 2182-2194 doi: 10.3864/j.issn.0578-1752.2020.11.005
基于改进权重湿润指数的东北地区春玉米涝渍灾害评估方法
刘聪 武永峰 刘平辉 梁立江

植物保护

- 2195-2206 doi: 10.3864/j.issn.0578-1752.2020.11.006
公主岭霉素诱导对育苗期水稻耐冷性的影响
安俊霞 赵宇 张正坤 史海鹏 纪东铭 曹洪翼 杜茜 李启云
- 2207-2218 doi: 10.3864/j.issn.0578-1752.2020.11.007
甘薯羽状斑驳病毒O株系和RC株系中国分离物全基因组序列分析及其遗传特征
秦艳红 王永江 王爽 乔奇 田雨婷 张德胜 张振臣
- 2219-2231 doi: 10.3864/j.issn.0578-1752.2020.11.008
飞蝗核受体基因*LmE75*的分子特性和功能分析
刘晓健 郭俊 张学尧 马恩波 张建珍

土壤肥料·节水灌溉·农业生态环境

- 2232-2240 doi: 10.3864/j.issn.0578-1752.2020.11.009
长期施肥下华北潮土生产力演变及影响因素分析
王乐 陈延华 张淑香 马常宝 孙楠 李春花

2241-2252

doi: 10.3864/j.issn.0578-1752.2020.11.010

基于温室番茄产量和果实品质对加气灌溉处理的综合评价

朱艳 蔡焕杰 宋利兵 商子惠 陈慧

园艺

2253-2263

doi: 10.3864/j.issn.0578-1752.2020.11.011

中国不同地区‘富士’苹果品质评价

匡立学 聂继云 李银萍 程杨 沈友明

2264-2271

doi: 10.3864/j.issn.0578-1752.2020.11.012

4种矮化砧木对再植苹果幼树生长、产量和品质的影响

李民吉 张强 李兴亮 周贝贝 杨雨璋 张军科 周佳 魏钦平

食品科学与工程

2272-2284

doi: 10.3864/j.issn.0578-1752.2020.11.013

刺葡萄酒酒精发酵过程中氨基酸组成与果香酯类物质生成的关联分析

朱子健 陈思雨 粟俊 陶永胜

畜牧·兽医·资源昆虫

2285-2296

doi: 10.3864/j.issn.0578-1752.2020.11.014

IGF-1 调控 RBM3 表达抑制低温应激诱导牦牛卵丘细胞凋亡

潘阳阳 王萌 芮弦 王立斌 何翊阔 王靖雷 马睿 徐庚全 崔燕 樊江峰 余四九

2297-2304

doi: 10.3864/j.issn.0578-1752.2020.11.015

应用随机回归模型估计蛋鸡体重遗传参数

郭军 曲亮 窦套存 王星果 沈曼曼 胡玉萍 王克华

研究简报

2305-2320

doi: 10.3864/j.issn.0578-1752.2020.11.016

基于 PTN 系统分析不同种植地转基因水稻种子可培养内生真菌菌群的多样性

赵艳 王天圻 朱军莉

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

2137-2148 doi: 10.3864/j.issn.0578-1752.2020.11.001

Comprehensive Evaluation of Agronomic Traits and Quality Traits of Foxtail Millet Landrace in Shanxi

LIU SiChen, CAO XiaoNing, WEN QiFen, WANG HaiGang, TIAN Xiang, WANG JunJie, CHEN Ling, QIN HuiBin, WANG Lun, QIAO ZhiJun

2149-2160 doi: 10.3864/j.issn.0578-1752.2020.11.002

Mixed Inheritance Analysis and QTL Mapping for γ -Tocopherol Content in Soybean

LIANG HuiZhen, XU LanJie, DONG Wei, YU YongLiang, YANG HongQi, TAN ZhengWei, LI Lei, LIU XinMei

2161-2170 doi: 10.3864/j.issn.0578-1752.2020.11.003

Evaluation of Texture Quality of Sweetpotato Storage Roots Based on PCA-Entropy TOPSIS

LI Ling, XU Shu, CAO RuXia, CHEN LingLing, CUI Peng, LÜ ZunFu, LU GuoQuan

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

2171-2181 doi: 10.3864/j.issn.0578-1752.2020.11.004

Effects of Wide-Range Distance and Genotype on Yield and Water Use Efficiency of Winter Wheat

ZHAO Gang, FAN TingLu, LI XingMao, ZHANG JianJun, DANG Yi, LI ShangZhong, WANG Lei, WANG ShuYing, CHENG WanLi, NI ShengLi

2182-2194 doi: 10.3864/j.issn.0578-1752.2020.11.005

Evaluation Method of Spring Maize Waterlogging Disaster in Northeast China Based on Improved Weight Moist Index

LIU Cong, WU YongFeng, LIU PingHui, LIANG LiJiang

PLANT PROTECTION

2195-2206 doi: 10.3864/j.issn.0578-1752.2020.11.006

Induction of Cold Tolerance in Rice at the Breeding Stage by Gongzhulingmycin

AN JunXia, ZHAO Yu, ZHANG ZhengKun, SHI HaiPeng, JI DongMing, CAO HongYi, DU Qian, LI QiYun

2207-2218 doi: 10.3864/j.issn.0578-1752.2020.11.007

Complete Nucleotide Sequence Analysis and Genetic Characterization of the *Sweet potato feathery mottle virus* O and RC Strains Isolated from China

QIN YanHong, WANG YongJiang, WANG Shuang, QIAO Qi, TIAN YuTing, ZHANG DeSheng, ZHANG ZhenChen

2219-2231 doi: 10.3864/j.issn.0578-1752.2020.11.008

Molecular Characteristics and Function Analysis of Nuclear Receptor Gene *LmE75* in *Locusta migratoria*

LIU XiaoJian, GUO Jun, ZHANG XueYao, MA EnBo, ZHANG JianZhen

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

2232-2240

doi: 10.3864/j.issn.0578-1752.2020.11.009

Evolution of Fluvo-Aquic Soil Productivity Under Long-Term Fertilization and Its Influencing Factors

WANG Le, CHEN YanHua, ZHANG ShuXiang, MA ChangBao, SUN Nan, LI ChunHua

2241-2252

doi: 10.3864/j.issn.0578-1752.2020.11.010

Comprehensive Evaluation of Different Oxygation Treatments Based on Fruit Yield and Quality of Greenhouse Tomato

ZHU Yan, CAI HuanJie, SONG LiBing, SHANG ZiHui, CHEN Hui

HORTICULTURE

2253-2263

doi: 10.3864/j.issn.0578-1752.2020.11.011

Quality Evaluation of 'Fuji' Apples Cultivated in Different Regions of China

KUANG LiXue, NIE JiYun, LI YinPing, CHENG Yang, SHEN YouMing

2264-2271

doi: 10.3864/j.issn.0578-1752.2020.11.012

Effects of 4 Dwarfing Rootstocks on Growth, Yield and Fruit Quality of 'Fuji' Sapling in Apple Replant Orchard

LI MinJi, ZHANG Qiang, LI XingLiang, ZHOU BeiBei, YANG YuZhang, ZHANG JunKe, ZHOU Jia, WEI QinPing

FOOD SCIENCE AND ENGINEERING

2272-2284

doi: 10.3864/j.issn.0578-1752.2020.11.013

Correlation Analysis Between Amino Acids and Fruity Esters During Spine Grape Fermentation

ZHU ZiJian, CHEN SiYu, SU Jun, TAO YongSheng

ANIMAL SCIENCE·VETERINARY SCIENCE·RESOURCE INSECT

2285-2296

doi: 10.3864/j.issn.0578-1752.2020.11.014

RNA-Binding Motif Protein 3(RBM3) Expression is Regulated by Insulin-Like Growth Factor (IGF-1) for Protecting Yak (*Bos grunniens*) Cumulus Cells from Apoptosis During Hypothermia Stress

PAN YangYang, WANG Meng, RUI Xian, WANG LiBin, HE HongHong, WANG JingLei, MA Rui, XU GengQuan, CUI Yan, FAN JiangFeng, YU SiJiu

2297-2304

doi: 10.3864/j.issn.0578-1752.2020.11.015

Using Random Regression Models to Estimate Genetic Parameters on Body Weights in Layers

GUO Jun, QU Liang, DOU TaoCun, WANG XingGuo, SHEN ManMan, HU YuPing, WANG KeHua

RESEARCH NOTES

2305-2320

doi: 10.3864/j.issn.0578-1752.2020.11.016

Diversity of Endophytic Fungi in Transgenic Rice Seeds from Different Planting Sites Based on PTN System

ZHAO Yan, WANG TianQi, ZHU JunLi