



目 次

作物遗传育种·种质资源·分子遗传学

3917-3930 doi: 10.3864/j.issn.0578-1752.2023.20.001
小麦穗长主效 QTL—*qSl-2D* 的遗传和育种选择效应解析
董继梓 陈林渠 郭浩儒 张梦宇 刘志霄 韩磊 田赵飒爽 徐宁浩 郭庆杰 黄振洁 杨傲宇 赵春华 吴永振 孙晗 秦冉 崔法

3931-3945 doi: 10.3864/j.issn.0578-1752.2023.20.002
谷子苗期耐低氮相关性状的 QTL 分析
秦娜 付森杰 朱灿灿 代书桃 宋迎辉 魏昕 王春义 叶珍言 李君霞

3946-3959 doi: 10.3864/j.issn.0578-1752.2023.20.003
芥菜型油菜苗期氮效率相关性状全基因组关联分析
曾健 王茹梦 龚盼 杨潇 尹晓奇 李江鹤 陈世龙 姚蕾 宋海星 康雷 张振华

耕作栽培·生理生化·农业信息技术

3960-3974 doi: 10.3864/j.issn.0578-1752.2023.20.004
机插杂交稻制种异交结实特性研究
黄帮超 陶有凤 秦琴 李卉 周中林 郭金岳 邓田田 雷小龙 孙博腾 周高子 贾媛丽 任万军

3975-3995 doi: 10.3864/j.issn.0578-1752.2023.20.005
不同降雨年型施氮量对延迟收获夏玉米产量、强弱势粒形态与粒重的影响
刘梦 张垚 葛均筑 杨永安 吴锡冬 侯海鹏

3996-4009 doi: 10.3864/j.issn.0578-1752.2023.20.006
中国玉米百千克籽粒地上部吸氮量的空间差异及驱动因素
王丹丹 陈焕轩 张翀 巨晓棠

植物保护

4010-4020 doi: 10.3864/j.issn.0578-1752.2023.20.007
我国甘薯 E 病毒全基因组序列特征及荧光定量检测技术的建立
唐伟 张成玲 杨冬静 马居奎 陈晶伟 高方园 谢逸萍 孙厚俊

4021-4034 doi: 10.3864/j.issn.0578-1752.2023.20.008
喜旱莲子草 AP2/ERF 基因家族的鉴定及其在除草剂胁迫下的表达模式
韩晓文 韩硕 胡义锋 王梦如 陈中义 朱永兴 尹军良

土壤肥料·节水灌溉·农业生态环境

4035-4048 doi: 10.3864/j.issn.0578-1752.2023.20.009

秸秆还田与施氮对耕层土壤有机碳储量、组分和团聚体的影响

郭戎博 李国栋 潘梦雨 郑险峰 王朝辉 何刚

4049-4066 doi: 10.3864/j.issn.0578-1752.2023.20.010

我国农业碳排放的时空演化、脱钩效应及绩效评估

孟庆雷 殷宇翔 王煜昊

4067-4071 doi: 10.3864/j.issn.0578-1752.2023.20.011

“稻薯猪”生态循环农业的设想

樊自尧 李奎 李家洋 黄三文

园艺

4072-4086 doi: 10.3864/j.issn.0578-1752.2023.20.012

桃生长势相关基因 *PpSAUR73* 功能鉴定

杨丽 曹洪波 张学英 翟含含 李辛森 彭佳伟 田义 陈海江

4087-4101 doi: 10.3864/j.issn.0578-1752.2023.20.013

基于转录组测序筛选与柚裂果相关的基因

卢艳清 林燕金 王贤达 卢新坤

食品科学与工程

4102-4114 doi: 10.3864/j.issn.0578-1752.2023.20.014

燕麦麸粉和苦荞皮粉的添加对小麦面条结构、蒸煮品质及消化特性的影响

彭湃 王晓龙 马兰 邹晓阳 马倩莹 张心语 李小平 胡新中

畜牧·兽医

4115-4124 doi: 10.3864/j.issn.0578-1752.2023.20.015

地塞米松诱导肉鸡脂肪肝模型的构建及效果分析

王超慧 孙喜 王强刚 刘芮兵 李妮 杨小军 刘艳利

4125-4136 doi: 10.3864/j.issn.0578-1752.2023.20.016

外源性马立克氏病病毒荧光定量 PCR 检测方法的建立

苏佳 赵炜 刘丹 王嘉 白洪旭 吴华伟 薛青红 陈晓春

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

3917-3930 doi: 10.3864/j.issn.0578-1752.2023.20.001

Analysis of Genetic and Breeding Selection Effects of A Major QTL-*qSl-2D* for Wheat Spike Length

DONG JiZi, CHEN LinQu, GUO HaoRu, ZHANG MengYu, LIU ZhiXiao, HAN Lei, TIAN ZhaoSaShuang, XU NingHao, GUO QingJie, HUANG ZhenJie, YANG AoYu, ZHAO ChunHua, WU YongZhen, SUN Han, QIN Ran, CUI Fa

3931-3945 doi: 10.3864/j.issn.0578-1752.2023.20.002

QTL Analysis for Seeding Traits Related to Low Nitrogen Tolerance in Foxtail Millet

QIN Na, FU SenJie, ZHU CanCan, DAI ShuTao, SONG YingHui, WEI Xin, WANG ChunYi, YE ZhenYan, LI JunXia

3946-3959 doi: 10.3864/j.issn.0578-1752.2023.20.003

Genome-Wide Association Study of Nitrogen Efficiency Related Traits at Seedling Stage in *Brassica juncea*

ZENG Jian, WANG RuMeng, GONG Pan, YANG Xiao, YIN XiaoQi, LI JiangHe, CHEN ShiLong, YAO Lei, SONG HaiXing, KANG Lei, ZHANG ZhenHua

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

3960-3974 doi: 10.3864/j.issn.0578-1752.2023.20.004

Investigation on Outcrossing Seed-Setting Characteristics of Machine- Transplanted Hybrid Rice Seed Production

HUANG BangChao, TAO YouFeng, QIN Qin, LI Hui, ZHOU ZhongLin, GUO JinYue, DENG TianTian, LEI XiaoLong, SUN BoTeng, ZHOU GaoZi, JIA YuanLi, REN WanJun

3975-3995 doi: 10.3864/j.issn.0578-1752.2023.20.005

Effects of Nitrogen Application on Delayed Harvest Summer Maize Grain Yield, Superior and Inferior Grains Morphology and Weight Under Different Rainfall Years

LIU Meng, ZHANG Yao, GE JunZhu, YANG YongAn, WU XiDong, HOU HaiPeng

3996-4009 doi: 10.3864/j.issn.0578-1752.2023.20.006

Spatial Differences and Driving Factors of Aboveground Nitrogen Uptake in Per Hundred Kilograms Grain of Maize in China

WANG DanDan, CHEN HuanXuan, ZHANG Chong, JU XiaoTang

PLANT PROTECTION

4010-4020 doi: 10.3864/j.issn.0578-1752.2023.20.007

Complete Genomic Sequence Characteristics and Establishment of qPCR Detection Technique of Sweet Potato Virus E in China

TANG Wei, ZHANG ChengLing, YANG DongJing, MA JuKui, CHEN JingWei, GAO FangYuan, XIE YiPing, SUN HouJun

4021-4034 doi: 10.3864/j.issn.0578-1752.2023.20.008

Genome-Wide Identification of AP2/ERF Gene Family in *Alternanthera philoxeroides* and Its Expression Patterns Under Herbicide Stresses

HAN XiaoWen, HAN Shuo, HU YiFeng, WANG MengRu, CHEN ZhongYi, ZHU YongXing, YIN JunLiang

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

4035-4048

doi: 10.3864/j.issn.0578-1752.2023.20.009

Effects of Long-Term Straw Return and Nitrogen Application Rate on Organic Carbon Storage, Components and Aggregates in Cultivated Layers

GUO RongBo, LI GuoDong, PAN MengYu, ZHENG XianFeng, WANG ZhaoHui, HE Gang

4049-4066

doi: 10.3864/j.issn.0578-1752.2023.20.010

Spatial-Temporal Evolution, Decoupling Effect and Performance Evaluation of China's Agricultural Carbon Emissions

MENG QingLei, YIN YuXiang, WANG YuHao

4067-4071

doi: 10.3864/j.issn.0578-1752.2023.20.011

The Conception of Eco-Circular Agriculture of "Rice-Potato-Pig"

FAN ZiYao, LI Kui, LI JiaYang, HUANG SanWen

HORTICULTURE

4072-4086

doi: 10.3864/j.issn.0578-1752.2023.20.012

Functional Identification of Peach Gene *PpSAUR73*

YANG Li, CAO HongBo, ZHANG XueYing, ZHAI HanHan, LI XinMiao, PENG JiaWei, TIAN Yi, CHEN HaiJiang

4087-4101

doi: 10.3864/j.issn.0578-1752.2023.20.013

A Transcriptome Analysis Identifies Candidate Genes Related to Fruit Cracking in Pomelo Fruits

LU YanQing, LIN YanJin, WANG XianDa, LU XinKun

FOOD SCIENCE AND ENGINEERING

4102-4114

doi: 10.3864/j.issn.0578-1752.2023.20.014

Effects of Oat Bran Flour and Tartary Buckwheat Bran Flour on Structure, Cooking Quality and Digestive Characteristics of Wheat Noodles

PENG Pai, WANG XiaoLong, MA Lan, ZOU XiaoYang, MA QianYing, ZHANG XinYu, LI XiaoPing, HU XinZhong

ANIMAL SCIENCE·VETERINARY SCIENCE

4115-4124

doi: 10.3864/j.issn.0578-1752.2023.20.015

Fatty Liver Model Construction and Its Effectiveness Evaluation Induced by Dexamethasone in Broilers

WANG ChaoHui, SUN Xi, WANG QiangGang, LIU RuiBing, LI Ni, YANG XiaoJun, LIU YanLi

4125-4136

doi: 10.3864/j.issn.0578-1752.2023.20.016

Establishment of Real-Time PCR Method for Detection of Extraneous Marek's Disease Virus

SU Jia, ZHAO Wei, LIU Dan, WANG Jia, BAI HongXu, WU HuaWei, XUE QingHong, CHEN XiaoChun