



目次

作物遗传育种·种质资源·分子遗传学

1-14 doi: 10.3864/j.issn.0578-1752.2017.01.001

中国玉米审定品种标准 SSR 指纹库的构建

王凤格 杨扬 易红梅 赵久然 任洁 王璐 葛建镛 江彬 张宪晨 田红丽 侯振华

15-27 doi: 10.3864/j.issn.0578-1752.2017.01.002

盐胁迫下甘蓝型油菜发芽期下胚轴和根长的全基因组关联分析

张蕊 邓文亚 杨柳 王亚萍 肖芳枝 禾健 卢坤

28-37 doi: 10.3864/j.issn.0578-1752.2017.01.003

干旱胁迫对甘蔗 4 个生理指标遗传变异的影响

赵培方 赵俊 刘家勇 咎逢刚 夏红明 P. A. Jackson J. Basnayake N. G. Inman-Bamber 杨昆 赵丽萍 覃伟
陈学宽 赵兴东 范源洪

耕作栽培·生理生化·农业信息技术

38-50 doi: 10.3864/j.issn.0578-1752.2017.01.004

新疆棉花高产简化栽培技术评述与展望

白岩 毛树春 田立文 李莉 董合忠

51-63 doi: 10.3864/j.issn.0578-1752.2017.01.005

外源硒对谷子生理特性、硒含量及其产量和品质的影响

穆婷婷 杜慧玲 张福耀 景小兰 郭琦 李志华 刘璋 田岗

64-76 doi: 10.3864/j.issn.0578-1752.2017.01.006

基于 EFAST 方法的 AquaCrop 作物模型参数全局敏感性分析

邢会敏 相诗尧 徐新刚 陈宜金 冯海宽 杨贵军 陈召霞

植物保护

77-85 doi: 10.3864/j.issn.0578-1752.2017.01.007

橡胶树白粉病菌 *OhPbs2* 的克隆及功能分析

冯霞 林春花 康迅 金洋 刘晓 何其光 刘文波 缪卫国 郑服从

86-93 doi: 10.3864/j.issn.0578-1752.2017.01.008

绿盲蝽 AIEcR-A 的单克隆抗体制备及在外源 20E 诱导下的应答

谭永安 肖留斌 郝德君 赵静 孙洋 柏立新

土壤肥料·节水灌溉·农业生态环境

94-103 doi: 10.3864/j.issn.0578-1752.2017.01.009

长期施用不同肥料土壤 PLFA 指纹特征

郭芸 孙本华 王颖 魏静 高明霞 张树兰 杨学云

104-122 doi: 10.3864/j.issn.0578-1752.2017.01.010

块根块茎类作物内生固氮菌分离鉴定、系统发育与促生特性

李艳星 郭平毅 孙建光

园艺

123-130 doi: 10.3864/j.issn.0578-1752.2017.01.011

六倍体 ($A^3A^3C^3C^3C^3$) 与白菜型油菜杂交可交配性及后代菌核病抗性

李勤菲 陈致富 刘瑶 梅家琴 钱伟

131-141 doi: 10.3864/j.issn.0578-1752.2017.01.012

西瓜枯萎病生理小种 1 抗性 QTL 精细定位与 InDel 标记开发

李娜 王吉明 尚建立 李楠楠 徐永阳 马双武

食品科学与工程

142-160 doi: 10.3864/j.issn.0578-1752.2017.01.013

基于 E-NOSE 与 SPME-GC/MS 技术分析温湿度动态变化过程中稻谷的挥发性成分

曹俊 刘欣 陈文若 戴炳业 董文 陈银基

161-170 doi: 10.3864/j.issn.0578-1752.2017.01.014

电子鼻和电子舌结合模糊数学感官评价优化培根烟熏工艺

王琼 徐宝才 于海 李聪

畜牧·兽医·资源昆虫

171-182 doi: 10.3864/j.issn.0578-1752.2017.01.015

不同品种猪 PPAR γ 和 C/EBP α 基因表达规律与肌内脂肪含量的相关

盘道兴 王振 杨茂林 廖乔平 杨昌平 吴宇萍 王金洲 刘若余

183-194 doi: 10.3864/j.issn.0578-1752.2017.01.016

三江黄牛全基因组数据分析

宋娜娜 钟金城 柴志欣 汪琦 何世明 吴锦波 蹇尚林 冉强 蒙欣 胡红春

195-204 doi: 10.3864/j.issn.0578-1752.2017.01.017

分子连锁分析探讨家蚕高抗 BmNPV 品系的抗性遗传基础

高瑞 李春林 童晓玲 曹明亚 石美宁 徐安英 鲁成 代方银

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

1-14 doi: 10.3864/j.issn.0578-1752.2017.01.001

Construction of an SSR-Based Standard Fingerprint Database for Corn Variety Authorized in China

WANG FengGe, YANG Yang, YI HongMei, ZHAO JiuRan, REN Jie, WANG Lu, GE JianRong, JIANG Bin, ZHANG XianChen, TIAN HongLi, HOU ZhenHua

15-27 doi: 10.3864/j.issn.0578-1752.2017.01.002

Genome-Wide Association Study of Root Length and Hypocotyl Length at Germination Stage Under Saline Conditions in *Brassica napus*

ZHANG Rui, DENG WenYa, YANG Liu, WANG YaPing, XIAO FangZhi, HE Jian, LU Kun

28-37 doi: 10.3864/j.issn.0578-1752.2017.01.003

Genetic Variation of Four Physiological Indexes as Impacted by Water Stress in Sugarcane

ZHAO PeiFang, ZHAO Jun, LIU JiaYong, ZAN FengGang, XIA HongMing, P.A. Jackson, J. Basnayake, N.G. Inman-Bamber, YANG Kun, ZHAO LiPing, QIN Wei, CHEN XueKuan, ZHAO XingDong, FAN YuanHong

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

38-50 doi: 10.3864/j.issn.0578-1752.2017.01.004

Advances and Prospects of High-Yielding and Simplified Cotton Cultivation Technology in Xinjiang Cotton-Growing Area

BAI Yan, MAO ShuChun, TIAN LiWen, LI Li, DONG HeZhong

51-63 doi: 10.3864/j.issn.0578-1752.2017.01.005

Effects of Exogenous Selenium on the Physiological Activity, Grain Selenium Content, Yield and Quality of Foxtail Millet

MU TingTing, DU HuiLing, ZHANG FuYao, JING XiaoLan, GUO Qi, LI ZhiHua, LIU Zhang, TIAN Gang

64-76 doi: 10.3864/j.issn.0578-1752.2017.01.006

Global Sensitivity Analysis of AquaCrop Crop Model Parameters Based on EFAST Method

XING HuiMin, XIANG ShiYao, XU XinGang, CHEN YiJin, FENG HaiKuan, YANG GuiJun, CHEN ZhaoXia

PLANT PROTECTION

77-85 doi: 10.3864/j.issn.0578-1752.2017.01.007

Gene Cloning and Functional Analysis of *OhPbs2* in *Oidium heveae*

FENG Xia, LIN ChunHua, KANG Xun, JIN Yang, LIU Xiao, HE QiGuang, LIU WenBo, MIAO WeiGuo, ZHENG FuCong

86-93 doi: 10.3864/j.issn.0578-1752.2017.01.008

Preparation of Monoclonal Antibody Against AIEcR-A Protein and Its Response Induced by Exogenous 20-Hydroxyecdysone in *Apolygus lucorum*

TAN YongAn, XIAO LiuBin, HAO DeJun, ZHAO Jing, SUN Yang, BAI LiXin

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

94-103 doi: 10.3864/j.issn.0578-1752.2017.01.009

PLFA Fingerprint Characteristics of An Anthropogenic Loess Soil Under Long-Term Different Fertilizations

GUO Yun, SUN BenHua, WANG Ying, WEI Jing, GAO MingXia, ZHANG ShuLan, YANG XueYun

104-122

doi: 10.3864/j.issn.0578-1752.2017.01.010

Isolation, Identification, Phylogeny and Growth Promoting Characteristics of Endophytic Diazotrophs from Tuber and Root Crops

LI YanXing, GUO PingYi, SUN JianGuang

HORTICULTURE

123-130

doi: 10.3864/j.issn.0578-1752.2017.01.011

Crossability and Sclerotinia Resistance Among Hybrids Between Hexaploid ($A^nA^nC^nC^nC^o$) and *Brassica rapa*

LI QinFei, CHEN ZhiFu, LIU Yao, MEI JiaQin, QIAN Wei

131-141

doi: 10.3864/j.issn.0578-1752.2017.01.012

Fine-Mapping of QTL and Development of InDel Markers for *Fusarium oxysporum* Race 1 Resistance in Watermelon

LI Na, WANG JiMing, SHANG JianLi, LI NanNan, XU YongYang, MA ShuangWu

FOOD SCIENCE AND ENGINEERING

142-160

doi: 10.3864/j.issn.0578-1752.2017.01.013

The Volatile Compositions from Rice Stored with Dynamic Temperature and Humidity Based on SPME-GC/MS and Electronic Nose (e-nose) Technics

CAO Jun, LIU Xin, CHEN WenRuo, DAI BingYe, DONG Wen, CHEN YinJi

161-170

doi: 10.3864/j.issn.0578-1752.2017.01.014

Electronic Nose and Electronic Tongue Combined with Fuzzy Mathematics Sensory Evaluation to Optimize Bacon Smoking Procedure

WANG Qiong, XU BaoCai, YU Hai, LI Cong

ANIMAL SCIENCE • VETERINARY SCIENCE • RESOURCE INSECT

171-182

doi: 10.3864/j.issn.0578-1752.2017.01.015

Association of the PPAR γ and C/EBP α Gene Expression with Intramuscular Fat Content in Different Varieties of Pig

PAN DaoXing, WANG Zhen, YANG MaoLin, LIAO QiaoPing, YANG ChangPing, WU YuPing, WANG JinZhou, LIU RuoYu

183-194

doi: 10.3864/j.issn.0578-1752.2017.01.016

The Whole Genome Data Analysis of Sanjiang Cattle

SONG NaNa, ZHONG JinCheng, CHAI ZhiXin, WANG Qi, HE ShiMing, WU JinBo, JIAN ShangLin, RAN Qiang, MENG Xin, HU HongChun

195-204

doi: 10.3864/j.issn.0578-1752.2017.01.017

Insight into Genetic Basis of *Bombyx mori* Resistant Strains with Resistance to BmNPV by Molecular Linkage Analysis

GAO Rui, LI ChunLin, TONG XiaoLing, CAO MingYa, SHI MeiNing, XU AnYing, LU Cheng, DAI FangYin