



目次

作物遗传育种·种质资源·分子遗传学

- 413-425 doi: 10.3864/j.issn.0578-1752.2017.03.001
重庆麦区小麦品种(系)抗条锈性评价与基因分析
李北 徐琪 杨宇衡 王琪琳 曾庆东 吴建辉 穆京妹 黄丽丽 康振生 韩德俊
- 426-436 doi: 10.3864/j.issn.0578-1752.2017.03.002
陆地棉转录因子 *GhNAC7* 的克隆及功能分析
郑学伟 SHAH Syed Tariq 范术丽 魏恒玲 庞朝友 李鸿彬 喻树迅
- 437-450 doi: 10.3864/j.issn.0578-1752.2017.03.003
基于荧光检测技术的多花黑麦草 EST-SSR 指纹图谱的构建
刘欢 张新全 马啸 张瑞珍 何光武 潘玲 金梦雅

耕作栽培·生理生化·农业信息技术

- 451-460 doi: 10.3864/j.issn.0578-1752.2017.03.004
南方稻麦轮作系统下小麦根系的三维分形特征
陈信信 丁启朔 李毅念 薛金林 何瑞银
- 461-473 doi: 10.3864/j.issn.0578-1752.2017.03.005
免耕及深松耕对黄土高原地区春玉米和冬小麦产量及水分利用效率影响的整合分析
魏欢欢 王仕稳 杨文稼 孙海妮 殷俐娜 邓西平
- 474-485 doi: 10.3864/j.issn.0578-1752.2017.03.006
不同光谱植被指数反演冬小麦叶氮含量的敏感性研究
张潇元 张立福 张霞 王树东 田静国 翟涌光

植物保护

- 486-495 doi: 10.3864/j.issn.0578-1752.2017.03.007
诱集植物香根草对二化螟幼虫致死的作用机制
鲁艳辉 高广春 郑许松 吕仲贤
- 496-503 doi: 10.3864/j.issn.0578-1752.2017.03.008
氟啶虫胺胍亚致死浓度对桃蚜生长和繁殖的影响
王泽华 范佳敏 陈金翠 官亚军 魏书军
- 504-512 doi: 10.3864/j.issn.0578-1752.2017.03.009
茶尺蠖信息素结合蛋白 PBP2 的基因克隆、原核表达及其结合功能
冯一璐 傅晓斌 吴帆 崔宏春 李红亮

土壤肥料·节水灌溉·农业生态环境

513-525 doi: 10.3864/j.issn.0578-1752.2017.03.010
低钾胁迫对甘薯块根淀粉理化特性的影响及其基因型差异
唐忠厚 张爱君 陈晓光 靳容 刘明 李洪民 丁艳锋

526-536 doi: 10.3864/j.issn.0578-1752.2017.03.011
渠井用水比例对土壤脱盐与地下水化学特征的影响
李平 Magzum NUROLA 梁志杰 黄仲冬 齐学斌

园艺

537-544 doi: 10.3864/j.issn.0578-1752.2017.03.012
苹果异三聚体G蛋白 α 亚基基因*MdGPA1*的克隆及功能鉴定
李睿 安建平 由春香 王小非 郝玉金

545-555 doi: 10.3864/j.issn.0578-1752.2017.03.013
‘早酥’和‘南果梨’16个部位多酚物质组成及含量分析
张小双 郑迎春 曹玉芬 田路明 董星光 张莹 齐丹 霍宏亮

食品科学与工程

556-563 doi: 10.3864/j.issn.0578-1752.2017.03.014
小麦制粉产品稳定碳、氮同位素组成特征
刘宏艳 郭波莉 魏帅 姜涛 张森荣 魏益民

564-573 doi: 10.3864/j.issn.0578-1752.2017.03.015
pH对肌原纤维蛋白及其热诱导凝胶非共价键作用力与结构的影响
张兴 杨玉玲 马云 王静宇

畜牧·兽医·资源昆虫

574-581 doi: 10.3864/j.issn.0578-1752.2017.03.016
胞壁酰二肽对体外奶牛乳腺上皮细胞生长及胞内NOD2 mRNA表达的影响
徐丹丹 王建发 张旭 刘东宇 许小楠 王乐 陈嘉 单旭菲 王晓雅 武瑞 杨彬

研究简报

582-590 doi: 10.3864/j.issn.0578-1752.2017.03.017
大豆紫色酸性磷酸酶基因*GmPAP4*启动子结构与活性分析
孔佑宾 李喜焕 张彩英

591-598 doi: 10.3864/j.issn.0578-1752.2017.03.018
球孢白僵菌对葱蝇成虫血淋巴蛋白质及游离氨基酸的影响
张慧 吴圣勇 王晓青 雷仲仁

CONTENTS

CROP GENETICS & BREEDING·GERMPLASM RESOURCES·MOLECULAR GENETICS

413-425 doi: 10.3864/j.issn.0578-1752.2017.03.001

Stripe Rust Resistance and Genes in Chongqing Wheat Cultivars and Lines

LI Bei, XU Qi, YANG YuHeng, WANG QiLin, ZENG QingDong, WU JianHui, MU JingMei, HUANG LiLi, KANG ZhenSheng, HAN DeJun

426-436 doi: 10.3864/j.issn.0578-1752.2017.03.002

Molecular Cloning and Functional Analysis of GhNAC7 in Upland Cotton (*Gossypium hirsutum* L.)

ZHENG XueWei, SHAH Syed Tariq, FAN ShuLi, WEI HengLing, PANG ChaoYou, LI HongBin, YU ShuXun

437-450 doi: 10.3864/j.issn.0578-1752.2017.03.003

Construction of EST-SSR Fingerprinting Based on Fluorescence Detection Technology for Italian Ryegrass

LIU Huan, ZHANG XinQuan, MA Xiao, ZHANG RuiZhen, HE GuangWu, PAN Ling, JIN MengYa

TILLAGE & CULTIVATION·PHYSIOLOGY & BIOCHEMISTRY·AGRICULTURE INFORMATION TECHNOLOGY

451-460 doi: 10.3864/j.issn.0578-1752.2017.03.004

Three Dimensional Fractal Characteristics of Wheat Root System for Rice-Wheat Rotation in Southern China

CHEN XinXin, DING QiShuo, LI YiNian, XUE JinLin, HE RuiYin

461-473 doi: 10.3864/j.issn.0578-1752.2017.03.005

Meta Analysis on Impact of No-Tillage and Subsoiling Tillage on Spring Maize and Winter Wheat Yield and Water Use Efficiency on the Loess Plateau

WEI HuanHuan, WANG ShiWen, YANG WenJia, SUN HaiNi, YIN LiNa, DENG XiPing

474-485 doi: 10.3864/j.issn.0578-1752.2017.03.006

Sensitivity of Different Spectral Vegetation Index for Estimating Winter Wheat Leaf Nitrogen

ZHANG XiaoYuan, ZHANG LiFu, ZHANG Xia, WANG ShuDong, TIAN JingGuo, ZHAI YongGuang

PLANT PROTECTION

486-495 doi: 10.3864/j.issn.0578-1752.2017.03.007

The Lethal Mechanism of Trap Plant *Vetiveria zizanioides* Against the Larvae of *Chilo suppressalis*

LU YanHui, GAO GuangChun, ZHENG XuSong, LÜ ZhongXian

496-503 doi: 10.3864/j.issn.0578-1752.2017.03.008

Sublethal Effects of Sulfoxaflor on the Growth and Reproduction of the Green Peach Aphid *Myzus persicae*

WANG ZeHua, FAN JiaMin, CHEN JinCui, GONG YaJun, WEI ShuJun

504-512 doi: 10.3864/j.issn.0578-1752.2017.03.009

Molecular Cloning, Prokaryotic Expression and Binding Functions of Pheromone Binding Protein 2 (PBP2) in the *Ectopis obliqua*

FENG YiLu, FU XiaoBin, WU Fan, CUI HongChun, LI HongLiang

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

513-525 doi: 10.3864/j.issn.0578-1752.2017.03.010

Starch Physico-Chemical Properties and Their Difference in Three Sweetpotato (*Ipomoea batatas*(L.) Lam) Genotypes Under Low Potassium Stress

TANG ZhongHou, ZHANG AiJun, CHEN XiaoGuang, JIN Rong, LIU Ming, LI HongMin, DING YanFeng

526-536

doi: 10.3864/j.issn.0578-1752.2017.03.011

Effects of Canal Well Water Ratios on Root Layer Soil Desalination and Groundwater Hydrochemical Characteristics

LI Ping, Magzum NUROLLA, LIANG ZhiJie, HUANG ZhongDong, QI XueBin

HORTICULTURE

537-544

doi: 10.3864/j.issn.0578-1752.2017.03.012

Molecular Cloning and Functional Characterization of the α -Subunit of Heterotrimeric G Protein Gene *MdGPA1* of Apple

LI Rui, AN JianPing, YOU ChunXiang, WANG XiaoFei, HAO YuJin

545-555

doi: 10.3864/j.issn.0578-1752.2017.03.013

The Composition and Content of Polyphenols in 16 Parts of 'Zaosu' and 'Nanguoli'

ZHANG XiaoShuang, ZHENG YingChun, CAO YuFen, TIAN LuMing, DONG XingGuang, ZHANG Ying, QI Dan, HUO HongLiang

FOOD SCIENCE AND ENGINEERING

556-563

doi: 10.3864/j.issn.0578-1752.2017.03.014

Characteristics of Stable Carbon and Nitrogen Isotopic Ratios in Wheat Milling Fractions

LIU HongYan, GUO BoLi, WEI Shuai, JIANG Tao, ZHANG SenShen, WEI YiMin

564-573

doi: 10.3864/j.issn.0578-1752.2017.03.015

Effects of pH on the Non-Covalent Forces and Structure of Myofibrillar Protein and Heat Induced Gel

ZHANG Xing, YANG YuLing, MA Yun, WANG JingYu

ANIMAL SCIENCE • VETERINARY SCIENCE • RESOURCE INSECT

574-581

doi: 10.3864/j.issn.0578-1752.2017.03.016

Growth and Expression of NOD2 mRNA in Bovine Mammary Epithelial Cells Treated with Different Concentrations of MDP *in Vitro*

XU DanDan, WANG JianFa, ZHANG Xu, LIU DongYu, XU XiaoNan, WANG Le, CHEN Jia, SHAN XuFei, WANG XiaoYa, WU Rui, YANG Bin

RESEARCH NOTES

582-590

doi: 10.3864/j.issn.0578-1752.2017.03.017

Construction and Activity Analysis of the Promoter of Purple Acid Phosphatase Gene *GmPAP4* in Soybean

KONG YouBin, LI XiHuan, ZHANG CaiYing

591-598

doi: 10.3864/j.issn.0578-1752.2017.03.018

Changes in the Contents of Proteins and Free Amino Acid in Haemolymph of *Delia antiqua* Adult Infected by *Beauveria bassiana*

ZHANG Hui, WU ShengYong, WANG XiaoQing, LEI ZhongRen