

中国农业科学

中文核心期刊/中国精品科技期刊 ZHONGGUO NONGYE KEXUE 2011年第44卷第8期

目次

作物遗传育种·种质资源·分子遗传学

- | | | | | | |
|------|--|-----|-----|-----|-----|
| 1533 | 华山新麦草 α -醇溶蛋白基因的克隆及原核表达 | 王玉卿 | 赵继新 | 庞玉辉 | 降彦苗 |
| | | | 陈新宏 | 武军 | 刘淑会 |
| 1543 | 苎麻自交无性繁殖系遗传关系的 ISSR 分析 | 刘立军 | 王绪霞 | 汪波 | 彭定祥 |
| 1553 | 桑属 ITS、 <i>trnL-F</i> 、 <i>rps16</i> 序列与进化分析 | 陈仁芳 | 张泽 | 唐洲 | 余茂德 |
| | | | | 徐立 | 王茜玲 |

耕作栽培·生理生化·农业信息技术

- | | | | | | |
|------|---|-----|-----|-----|-----|
| 1562 | 全球气候变暖对中国种植制度可能影响: VI. 未来气候变化对中国种植制度北界的可能影响 | 杨晓光 | 刘志娟 | 陈阜 | |
| 1571 | 水氮互作对不同基因型小麦 HMW-GS 含量及 GMP 粒度分布的影响 | 赵琦 | 李勇 | 李文阳 | 王平 |
| | | | 陈晓光 | 尹燕桦 | 王振林 |
| 1585 | 不同生态区和不同品种玉米的源库关系及碳氮代谢 | 戴明宏 | 赵久然 | 杨国航 | 王荣焱 |
| | | | | | 陈国平 |
| 1596 | 不同淀粉含量玉米籽粒淀粉粒度的分布特性 | 张丽 | 张吉旺 | 刘鹏 | 董树亭 |

植物保护

- | | | | | | |
|------|--|-----|-----|-----|-----|
| 1603 | 玉米大斑病菌聚酮体合成酶基因 <i>StPKS</i> 功能分析 | 张鑫 | 曹志艳 | 刘士伟 | 郭丽媛 |
| | | | | | 董金皋 |
| 1610 | 烟草赤星病菌代谢产物诱导的烟草 BY-2 细胞 ROS 爆发和 ATP 损耗 | 程丹丹 | 孙学娟 | 高辉远 | 杨程 |
| | | | | 张立涛 | 孟庆伟 |

土壤肥料·节水灌溉·农业生态环境

- | | | | | | |
|------|----------------------------|-----|-----|-----|-----|
| 1618 | 施氮水平对壤土微生物群落和酶活性的影响 | 夏雪 | 谷洁 | 车升国 | 高华 |
| | | | | | 秦清军 |
| 1628 | 不同土壤肥力下冬小麦春季干旱的复水补偿效应 | 王志强 | 梁威威 | 范雯雯 | 林同保 |
| 1637 | 不同施肥水平对木薯氮磷钾养分积累、分配及其产量的影响 | 高志红 | 陈晓远 | 林昌华 | 张宇鹏 |
| | | | | | 何永胜 |

园艺

- | | | | | | |
|------|-----------------------------|----|-----|-----|-----|
| 1646 | AMF 对低温胁迫下黄瓜幼苗生长和叶片抗氧化系统的影响 | 韩冰 | 贺超兴 | 闫妍 | 郭世荣 |
| | | | | | 于贤昌 |
| 1654 | 苹果园土壤养分与果实品质关系的多元分析及优化方案 | 张强 | 魏钦平 | 刘惠平 | 蒋瑞山 |
| | | | | 刘旭东 | 王小伟 |

- | | | | | | |
|------|--------------------------------|-----|-----|-----|-----|
| 1662 | 玫瑰 SRAP 遗传多样性分析与品种指纹图谱构建 | 徐宗大 | 赵兰勇 | 张玲 | 杨志莹 |
| 1670 | 低温对朵丽蝶兰成花过程中碳水化合物及糖转运蛋白基因表达的影响 | 张迟 | 周庐萍 | 罗小燕 | 孙小明 |
| | | | 秦巧平 | 周明兵 | 崔永一 |

贮藏·保鲜·加工

- | | | | | | |
|------|-------------------------|-----|-----|-----|-----|
| 1678 | 板栗仁酶促褐变产物的组分确定 | | 蔡菁华 | 杨心宇 | 黄漫青 |
| 1688 | 辐照孜然的 ESR 法鉴定及原初吸收剂量的估算 | 李伟明 | 哈益明 | 王锋 | 张彦立 |

畜牧·资源昆虫

- | | | | | | |
|------|--|-----|-----|-----|-----|
| 1694 | 猪 IGF2、MC4R、JHDM1A 及 TEF-1 多基因标记遗传效应研究 | 韩雪蕾 | 杨华威 | 王维民 | 殷勤 |
| | | | | 蒋腾飞 | 刘榜 |
| 1702 | 卵丘细胞凋亡与增殖对牛卵母细胞体外发育的影响 | 李海军 | 靳木子 | 张睿彪 | 杜晨光 |
| | | | | 刘东军 | 仓明 |
| 1710 | 茶皂素和丝兰皂苷对山羊人工瘤胃发酵和瘤胃微生物的影响 | | 王洪荣 | 陈旭伟 | 王梦芝 |

兽医

- | | | | | | |
|------|--|-----|-----|-----|-----|
| 1720 | FUT1 基因新 cSNPs 的鉴别及其对仔猪抗大肠杆菌 F18 侵染的影响 | 周利华 | 舒青龙 | 彭秋玲 | 郭源梅 |
| | | | | | 晏学明 |
| 1727 | 鹌鹑 piRNAs 和 Piwil1 基因克隆及表达研究 | 陈蓉 | 常国斌 | 张颖 | 陈国宏 |
| | | 胡国顺 | 栾德琴 | 刘艳 | 戴爱琴 |

研究简报

- | | | | | | |
|------|--|-----|-----|-----|-----|
| 1736 | 紫心甘薯二氢黄酮醇 4-还原酶基因表达及酶活性与花色苷积累的相关性 | 郭晋雅 | 李云萍 | 傅玉凡 | 黄成涛 |
| | | | | 周伟 | 高峰 |
| 1745 | 蓝塘×长白猪 F2 资源群 1、4 和 8 号染色体活体性状的 QTL 定位 | 凌飞 | 张豪 | 蔡更元 | 陈瑶生 |
| | | | | 李加琪 | 王渊 |

CONTENTS

CROP GENETICS & BREEDING • GERMLASM RESOURCES • MOLECULAR GENETICS

- 1533 Cloning and Prokaryotic Expression of α -Gliadin Gene from *Psathyrostachys huashanica* WANG Yu-qing, ZHAO Ji-xin, PANG Yu-hui, JIANG Yan-miao, CHEN Xin-hong, WU Jun, LIU Shu-hui
- 1543 Analysis of Genetic Relationship of Ramie (*Boehmeria nivea*) Inbred Line Clones as Revealed by ISSR LIU Li-jun, WANG Xu-xia, WANG Bo, PENG Ding-xiang
- 1553 *Morus* ITS, *trnL-F*, *rps16* Sequence and Phylogenetic Analysis of Mulberry Resources CHEN Ren-fang, ZHANG Ze, TANG Zhou, YU Mao-de, XU Li, WANG Xi-ling

TILLAGE & CULTIVATION • PHYSIOLOGY & BIOCHEMISTRY • AGRICULTURE INFORMATION TECHNOLOGY

- 1562 The Possible Effects of Global Warming on Cropping Systems in China VI. Possible Effects of Future Climate Change on Northern Limits of Cropping System in China YANG Xiao-guang, LIU Zhi-juan, CHEN Fu
- 1571 Effects of Water-Nitrogen Interaction on Content of High Molecular Weight Glutenin Subunits and GMP Size Distribution in Wheat Cultivars of Different Genotypes ZHAO Qi, LI Yong, LI Wen-yang, WANG Ping, CHEN Xiao-guang, YIN Yan-ping, WANG Zhen-lin
- 1585 Source-Sink Relationship and Carbon-Nitrogen Metabolism of Maize in Different Ecological Regions and Varieties DAI Ming-hong, ZHAO Jiu-ran, YANG Guo-hang, WANG Rong-huan, CHEN Guo-ping
- 1596 Starch Granule Size Distribution in Grains of Maize with Different Starch Contents ZHANG Li, ZHANG Ji-wang, LIU Peng, DONG Shu-ting

PLANT PROTECTION

- 1603 Functional Analysis of Polyketide Synthase Gene *StPKS* in *Setosphaeria turcica* ZHANG Xin, CAO Zhi-yan, LIU Shi-wei, GUO Li-yuan, DONG Jin-gao
- 1610 ROS Burst and ATP Depletion in Tobacco BY-2 Cells Induced by Metabolic Products of *Alternaria alternata* CHENG Dan-dan, SUN Xue-juan, GAO Hui-yuan, YANG Cheng, ZHANG Li-tao, MENG Qing-wei

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

- 1618 Effects of Nitrogen Application Rates on Microbial Community and Enzyme Activities in Lou Soil XIA Xue, GU Jie, CHE Sheng-guo, GAO Hua, QIN Qing-jun
- 1628 Studies on Compensation Effects of Rewatering on Winter Wheat Suffering from Droughts During Spring Under Different Soil Fertility Conditions WANG Zhi-qiang, LIANG Wei-wei, FAN Wen-wen, LIN Tong-bao
- 1637 Effect of Fertilizer Application Rates on Cassava N, P, K accumulations and Allocation and Yield in Sloping Lands of North Guangdong GAO Zhi-hong, CHEN Xiao-yuan, LIN Chang-hua, ZHANG Yu-peng, HE Yong-sheng

HORTICULTURE

- 1646 Effects of Arbuscular Mycorrhiza Fungi on Seedlings Growth and Antioxidant Systems of Leaves in Cucumber Under Low Temperature Stress HAN Bing, HE Chao-xing, YAN yan, GUO Shi-rong, YU Xian-chang

- 1654 Multivariate Analysis and Optimum Proposals of the Relationship Between Soil Nutrients and Fruit Qualities in Apple Orchard ZHANG Qiang, WEI Qin-ping, LIU Hui-ping, JIANG Run-shan, LIU Xu-dong, WANG Xiao-wei
- 1662 Analysis of Genetic Diversity and Construction of Fingerprint of *Rosa rugosa* by SRAP XU Zong-da, ZHAO Lan-yong, ZHANG Ling, YANG Zhi-ying
- 1670 Relative Cold-Induced Flowering Arouse Fluctuation on Carbohydrates and Expression of Genes Related to Sugar Transport in *Doritaenopsis hybrid* ZHANG Chi, ZHOU Lu-ping, LUO Xiao-yan, SUN Xiao-ming, QIN Qiao-ping, ZHOU Ming-bing, CUI Yong-yi

STORAGE • FRESH-KEEPING • PROCESSING

- 1678 Identification of Chemicals from Enzymatic-Browning Reaction of Chestnut (*Castanea mollissima*) Kernel QI Jing-hua, YANG Xin-yu, HUANG Man-qing
- 1688 Identification and Estimation of the Initial Absorbed Dose in Irradiated Cumin by ESR Spectrometry LI Wei-ming, HA Yi-ming, WANG Feng, ZHANG Yan-li

ANIMAL SCIENCE • RESOURCE INSECT

- 1694 Genetic Analysis of Polygene Markers in Porcine Genes IGF2, MC4R, JHDM1A and TEF-1 HAN Xue-lei, YANG Hua-wei, WANG Wei-min, YIN Qin, JIANG Teng-fei, LIU Bang
- 1702 Effect of Cumulus Cell Apoptosis and Proliferation on Bovine Oocyte Development *in vitro* LI Hai-jun, JIN Mu-zi, ZHANG Rui-biao, DU Chen-guang, LIU Dong-jun, CANG Ming
- 1710 Effect of *Yucca schidigera* Saponin and Tea Saponin Mixture on the Rumen Fermentation and Its Fibrolytic Bacterial Activity in the Rusitec Substrates with Different Concentrate to Forage Ratio WANG Hong-rong, CHEN Xu-wei, WANG Meng-zhi

VETERINARY SCIENCE

- 1720 A Novel Coding Variant in the *FUT1* Gene and Its Effects on the Resistance to *Escherichia coli* F18 Infection in Piglets ZHOU Li-hua, SHU Qing-long, PENG Qiu-lin, GUO Yuan-mei, YAN Xue-ming
- 1727 Cloning and Expression Analysis of piRNAs and Piwi1 Gene in Quail CHEN Rong, CHANG Guo-bin, ZHANG Ying, CHEN Guo-hong, HU Guo-shun, LUAN De-qin, LIU Yan, DAI Ai-qin

RESEARCH NOTES

- 1736 Correlations Among the Enzyme Activity and Gene Expression of Dihydroflavonol 4-Reductase and Anthocyanin Accumulation in Purple-Fleshed Sweet Potato GUO Jin-ya, LI Yun-ping, FU Yu-fan, HUANG Cheng-tao, ZHOU Wei, GAO Feng
- 1745 Mapping Quantitative Trait Loci Associated with Live Traits in an F₂ Lantang x Landrace Resource Population on SSC 1, 4 and 8 LING Fei, ZHANG Hao, CAI Geng-yuan, CHEN Yao-sheng, LI Jia-qi, WANG Chong