



目次

作物遗传育种·种质资源·分子遗传学

- | | | | | | |
|------|---|-----|-----|-----|-----|
| 3069 | 籼稻不同定位群体抽穗期和株高的 QTL 比较研究 | 张振华 | 郭梁 | 朱玉君 | 樊叶杨 |
| | | | | | 庄杰云 |
| 3078 | 小麦籽粒蛋白质含量的动态 QTL 定位 | 朱占玲 | 刘宾 | 田宾 | 谢全刚 |
| | | | | 李文福 | 田纪春 |
| 3086 | 陆海 BC ₄ F ₂ 和 BC ₄ F ₃ 代换系的评价及纤维产量与品质相关 QTL 的检测 | 兰孟焦 | 杨泽茂 | 石玉真 | 葛瑞华 |
| | | 李爱国 | 张保才 | 李俊文 | 商海红 |
| | | | 刘爱英 | 王涛 | 袁有禄 |

耕作栽培·生理生化·农业信息技术

- | | | | | | |
|------|--------------------------|-----|-----|-----|-----|
| 3098 | 播期对麦茬直播粳稻产量及品质的影响 | 姚义 | 霍中洋 | 张洪程 | 夏炎 |
| | | 倪晓诚 | 戴其根 | 许轲 | 魏海燕 |
| | | | | 肖跃成 | 王显 |
| 3108 | 轮耕对宁南旱区冬小麦花后旗叶光合性能及产量的影响 | 侯贤清 | 贾志宽 | 韩清芳 | 王维 |
| | | | 丁瑞霞 | 聂俊峰 | 李永平 |
| 3118 | 镉对玉米叶片光系统活性的影响 | 李耕 | 张善平 | 刘鹏 | 高辉远 |
| | | 王敬锋 | 刘晨旭 | 董树亭 | 张吉旺 |

植物保护

- | | | | | | |
|------|---|-----|-----|-----|-----|
| 3127 | 一株苦参内生真菌的抑菌特性及活性成分的结构鉴定 | 何璐 | 纪明山 | 王勇 | 徐洪波 |
| | | | | | 齐补坤 |
| 3134 | 指天蕉 β -1, 3-葡聚糖酶基因全长 cDNA 的克隆及序列分析 | 翟国会 | 阮小蕾 | 吴丽婷 | 谭小勇 |
| | | | | | 李华平 |
| 3142 | 大丽轮枝菌 (<i>Verticillium dahliae</i> VdLs.17) 分泌组预测及分析 | 田李 | 陈捷胤 | 陈相永 | 汪佳妮 |
| | | | | | 戴小枫 |

土壤肥料·节水灌溉·农业生态环境

- | | | | | | |
|------|----------------------|----|-----|-----|-----|
| 3154 | 黄土丘陵区营造果园后土壤质量效应分析 | 薛蕙 | 刘国彬 | 张超 | 张昌盛 |
| 3162 | 茶园土壤团聚体中微生物量碳、氮的分布特征 | | 刘敏英 | 郑子成 | 李廷轩 |

园艺

- | | | | | | |
|------|-------------|-----|-----|-----|----|
| 3169 | 黄瓜雌性性状的遗传分析 | 厉建梅 | 秦智伟 | 周秀艳 | 辛明 |
| | | | | | 武涛 |

- 3177 6种酚酸类物质对平邑甜茶幼苗根系线粒体及抗氧化酶活性的影响 张兆波 毛志泉 朱树华
 3185 盐胁迫下外源 SA 对菊花体内离子含量和净光合速率的影响 郭春晓 王文莉 郑成淑 时连辉
 束怀瑞
 3193 利用 AFLP 分子标记技术构建花莲核心种质资源 杨美 付杰 向巧彦 刘艳玲

贮藏·保鲜·加工

- 3206 荧光辅助糖电泳检测葡甘露寡糖条件的分析 姚喜梅 石波 刘程程 梁平
 李静梅
 3214 内源性蛋白酶对宰后肌肉嫩化机制研究进展 黄明 黄峰 黄继超 徐宝才
 周光宏 徐幸莲

畜牧·资源昆虫

- 3223 日粮添加鹅源草酸青霉产果胶酶对改善肉鸡生产性能的消化生理与免疫学机制的研究 王宝维 姜晓霞 张名爱 葛文华
 岳斌
 3235 济宁青山羊发情周期不同阶段 LHR 在输卵管的分布及其 mRNA 表达 李广君 王慧 王树迎 侯行猛
 黄丽波
 3246 东北林蛙皮肤抗菌肽 dybowskin-1ST 的表达、纯化及抑菌活性分析 郭娜 肖向红 徐义刚 柴龙会
 张晶钰
 3252 FLP/FRT 位点特异性重组系统在高等真核生物中的研究进展 赵爱春 龙定沛 谭兵 许龙霞
 向仲怀

兽医

- 3264 GnRH、OT、SYN 及 S-100 蛋白在卡拉库尔羊周期黄体细胞中的共存 郑毛亮 李广
 3272 抑制钙信号转导对柔嫩艾美耳球虫入侵细胞的影响 郑明学 古少鹏 王丽霞 韩克光
 李宝钧

农业经济与管理

- 3279 中国生猪价格发现形成机制研究——基于区域间价格关系的实证分析 陈永福 马国英 吴蓓蓓 钱小平

CONTENTS

CROP GENETICS & BREEDING • GERMLASM RESOURCES • MOLECULAR GENETICS

- 3069 Mapping of Quantitative Trait Loci for Heading Date and Plant Height in Two Populations of *Indica* Rice ZHANG Zhen-hua, GUO Liang, ZHU Yu-jun, FAN Ye-yang, ZHUANG Jie-yun
- 3078 Dynamic QTL Mapping of Wheat Protein Content in Developing Grains ZHU Zhan-ling, LIU Bin, TIAN Bin, XIE Quan-gang, LI Wen-fu, TIAN Ji-chun
- 3086 Assessment of Substitution Lines and Identification of QTL Related to Fiber Yield and Quality Traits in BC₄F₂ and BC₄F₃ Populations from *Gossypium hirsutum* × *Gossypium barbadense* LAN Meng-jiao, YANG Ze-mao, SHI Yu-zhen, GE Rui-hua, LI Ai-guo, ZHANG Bao-cai, LI Jun-wen, SHANG Hai-hong, LIU Ai-ying, WANG Tao, YUAN You-lu

TILLAGE & CULTIVATION • PHYSIOLOGY & BIOCHEMISTRY • AGRICULTURE INFORMATION TECHNOLOGY

- 3098 Effects of Sowing Date on Yield and Quality of Direct Seeding Rice of Different Types and Varieties YAO Yi, HUO Zhong-yang, ZHANG Hong-cheng, XIA Yan, NI Xiao-cheng, DAI Qi-gen, XU Ke, WEI Hai-yan, XIAO Yue-cheng, WANG Xian
- 3108 Effects of Rotational Tillage on Flag Leaf Photosynthetic Characteristics and Yield After Anthesis of Winter Wheat in Arid Areas of Southern Ningxia HOU Xian-qing, JIA Zhi-kuan, HAN Qing-fang, WANG Wei, DING Rui-xia, NIE Jun-feng, LI Yong-ping
- 3118 Effect of Cadmium on Photosystem Activities of Maize (*Zea mays* L.) Leaves LI Geng, ZHANG Shan-ping, LIU Peng, GAO Hui-yuan, WANG Jing-feng, LIU Chen-xu, DONG Shu-ting, ZHANG Ji-wang

PLANT PROTECTION

- 3127 Antimicrobial Action of an Endophytic Fungus from *Sophora flavescens* and Structure Identification of Its Active Constituents HE Lu, JI Ming-shan, WANG Yong, XU Hong-bo, QI Bu-kun
- 3134 Cloning and Sequence Analysis of a Full-Length cDNA of β -1, 3-Glucanase Gene from *Musa pisangawake* ZHAI Guo-hui, RUAN Xiao-lei, WU Li-ting, TAN Xiao-yong, LI Hua-ping
- 3142 Prediction and Analysis of *Verticillium dahliae* VdLs.17 Secretome TIAN Li, CHEN Jie-yin, CHEN Xiang-yong, WANG Jia-ni, DAI Xiao-feng

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

- 3154 Analysis of Effect of Soil Quality After Orchard Established in Hilly Loess Plateau XUE Sha, LIU Guo-bin, ZHANG Chao, ZHANG Chang-sheng
- 3162 Distribution Characteristics of Microbial Biomass Carbon and Nitrogen in Soil Aggregates Under Tea Plantation LIU Min-ying, ZHENG Zi-cheng, LI Ting-xuan

HORTICULTURE

- 3169 Genetic Analysis of Gynoecious in Cucumber (*Cucumis sativus* L.) LI Jian-mei, QIN Zhi-wei, ZHOU Xiu-yan, XIN Ming, WU Tao

- 3177 Effects of Phenolic Acids on Mitochondria and the Activity of Antioxidant Enzymes in Roots of Seedlings of *Malus hupehensis* Rehd. ZHANG Zhao-bo, MAO Zhi-quan, ZHU Shu-hua
- 3185 Effects of Exogenous Salicylic Acid on Ions Contents and Net Photosynthetic Rate in Chrysanthemum Under Salt Stress GUO Chun-xiao, WANG Wen-li, ZHENG Cheng-shu, SHI Lian-hui, SHU Huai-rui
- 3193 The Core-Collection Construction of Flower Lotus Based on AFLP Molecular Markers YANG Mei, FU Jie, XIANG Qiao-yan, LIU Yan-ling

STORAGE • FRESH-KEEPING • PROCESSING

- 3206 Analysis of Glucomanno-Oligosaccharides by Fluorophore-Assisted Carbohydrate Electrophoresis YAO Xi-mei, SHI Bo, LIU Cheng-cheng, LIANG Ping, LI Jing-mei
- 3214 Advances in Research on Postmortem Tenderization Mechanism of Endogenous Proteolytic Enzymes in Muscle HUANG Ming, HUANG Feng, HUANG Ji-chao, XU Bao-cai, ZHOU Guang-hong, XU Xing-lian

ANIMAL SCIENCE • RESOURCE INSECT

- 3223 Effects of Adding Pectinase Produced by *Penicillium Oxalicum* from Goose to Diet on the Digestive Physiology and Immunological Mechanisms for Improving the Performance of Broilers WANG Bao-wei, JIANG Xiao-xia, ZHANG Ming-ai, GE Wen-hua, YUE Bin
- 3235 Localization and Differential Expression of LHR and LHR mRNA in the Oviduct of Jining Gray Goat During Estrous Cycle LI Guang-jun, WANG Hui, WANG Shu-ying, HOU Yan-meng, HUANG Li-bo
- 3246 Expression, Purification and Antibacterial Activity Analysis of *Rana dybowskii* Antimicrobial Peptide Dybowskin-1ST GUO Na, XIAO Xiang-hong, XU Yi-gang, CHAI Long-hui, ZHANG Jing-yu
- 3252 Progress in Research of FLP/FRT Site-Specific Recombination System in Higher Eukaryotes ZHAO Ai-chun, LONG Ding-pei, TAN Bing, XU Long-xia, XIANG Zhong-huai

VETERINARY SCIENCE

- 3264 Study on the Coexistence of GnRH, OT, SYN and S-100 Protein in the Same Luteal Cell of the Mid Phases of Oestrous Cycle in Karakul Sheep ZHENG Mao-liang, LI Guang
- 3272 Effect on *E. tenella* Invasion into Host Cells *in Vitro* by Inhibiting Calcium Signal Transduction ZHENG Ming-xue, GU Shao-peng, WANG Li-xia, HAN Ke-guang, LI Bao-jun

AGRICULTURAL ECONOMY & MANAGEMENT

- 3279 Study on China's Swine Price Discovery Forming Mechanism — Empirical Analysis on the Relationship Between Interregional Price CHEN Yong-fu, MA Guo-ying, WU Bei-bei, QIAN Xiao-ping