

# 江苏农业学报

第26卷 第5期 2010年10月31日

## 目次

### 遗传育种·耕作栽培·生理生化

- 粳稻品种(系)SSR指纹图谱的构建及遗传相似性分析 ..... 程保山 王健 徐卫军 杨加银 (897)
- 不同氮素累积量类型粳稻品种氮素吸收与分配的特点  
..... 张岳芳 陈培峰 张传胜 董桂春 杨连新 黄建晔 王余龙 (904)
- 小麦籽粒降落数值的配合力及遗传分析 ..... 薛香 郇庆炉 杨忠强 (910)
- 棉花细胞质雄性不育与恢复特性的 cDNA-AFLP 分析 ..... 李茂峰 徐奇 刘康 张天真 (914)
- 油菜 RNA 干扰(RNAi)文库的构建 ..... 谭秀华 武王永 单长民 马立新 (920)
- 甘薯地方品种和育成品种的遗传多样性分析  
..... 胡玲 李强 王欣 唐忠厚 李秀英 李洪民 谢逸萍 唐君 曹清河 马代夫 (925)
- 象草自交后代无性系产量及植物学性状聚类分析  
..... 冉景松 顾洪如 沈益新 丁成龙 张霞 (936)
- 江苏地区凤眼莲叶片光合作用对光照度和温度的响应 ..... 李霞 任承刚 王满 盛婧 郑建初 (943)

### 植物保护

- 4 套水稻稻瘟病鉴别品种对江苏地区主要稻瘟病菌株的抗性分析  
..... 张磊 张启军 程兆榜 杨豪 周益军 吕川根 (948)
- 中国冬小麦主产区小麦赤霉病菌种群组成及其致病力 ..... 胡迎春 李伟 陈怀谷 周益军 (954)

### 土壤肥料·资源环境

- 江苏省丘陵地区油菜施磷效果 ..... 宁运旺 张永春 汪吉东 许仙菊 王寅 鲁剑巍 (961)
- 锰对半夏产量及总游离有机酸和鸟苷含量的影响 ..... 杨磊 王康才 罗庆云 唐晓清 汤兴利 肖亚雯 (966)
- 水葫芦渣粪便混合物蚯蚓堆制后微生物活性及物理化学性质的变化 ..... 于建光 常志州 李瑞鹏 (970)
- 铵态氮/硝态氮对水稻铝毒害的影响 ..... 张启明 赵学强 陈荣府 董晚英 沈仁芳 (976)
- 叶面喷施铜肥对芍药光合及荧光动力学参数的影响 ..... 刘海琴 王康才 罗庆云 邢建永 (982)

### 畜牧兽医·水产养殖

- 猪肺炎支原体 P36 蛋白间接 ELISA 检测方法的建立 ..... 祝永琴 冯志新 刘茂军 吴叙芬 邵国青 (987)
- 猪圆环病毒 II 型和巨噬细胞对外培养仔猪淋巴细胞白介素-6 和白介素-10 及其受体表达的影响  
..... 陈耿 华利忠 张书霞 (993)
- 副猪嗜血杆菌分型血清的制备及其在流行病学研究上的应用  
..... 储岳峰 高鹏程 赵萍 贺英 樊祜卿 逯忠新 赵海燕 (999)

种母鸡日粮中不同硒和蛋氨酸添加量对种蛋抗氧化性的影响

..... 张伟清 彭增起 潘晓建 汪张贵 靳红果 王蓉蓉 (1003)

抗菌脂肽对肉鸡生产性能和免疫功能的影响 ..... 都海明 戚广州 王建军 张旭晖 陆兆新 王 恬 (1009)

硫酸化多糖复方对鸡脾脏和外周血淋巴细胞增殖的影响

..... 郭振环 王哲慈 马 霞 曹宝珠 仇 婧 方 刚 朱 琳 张春媛 王兴祥 胡元亮 (1015)

鹅生长激素基因外显子单核苷酸多态性分析 ..... 董 飏 王 健 段修军 孙国波 朱善元 李小芬 (1020)

三角帆蚌微卫星的分离及遗传多样性分析 ..... 朱晓宇 周宇芳 舒妙安 (1026)

园 艺

槭属种质遗传多样性及亲缘关系的 SRAP 分析 ..... 李倩中 刘晓宏 苏家乐 陶 俊 (1032)

薄壳山核桃 SRAP 标记体系的优化和遗传多样性分析 ..... 刘广勤 王鹏良 周蓓蓓 吕智鹏 王海燕 (1037)

不同套袋材料对翠冠梨贮藏期间果实生理及品质的影响 ..... 蔺 经 杨青松 李晓刚 颜志梅 王中华 常有宏 (1043)

黑莓品种 Boysen 果实发育模型的建立与分析 ..... 吴文龙 王小敏 赵慧芳 方 亮 阎连飞 李维林 (1048)

加工贮藏·质量安全

电解水的保存特性及杀菌效果 ..... 谢 军 孙晓红 潘迎捷 赵 勇 (1053)

真空预冷和贮藏温度对菠菜品质的影响 ..... 谢 晶 刘 敏 (1060)

共轭亚油酸对樱桃谷鸭肉挥发性风味成分的影响 ..... 张晶晶 王锡昌 刘 源 顾赛麒 (1064)

葡萄籽原花青素的单元结构 ..... 李春阳 张红城 王乃富 戴宇翔 (1070)

应用微卫星标记技术鉴别鸡、鸭、鹅源性成份 ..... 郑 新 姚大伟 许家荣 周光宏 徐幸莲 杨德吉 (1078)

青菜中吡虫啉农药残留的去除方法 ..... 骆爱兰 (1083)

毒死蜱和丙溴磷对鲫鱼的毒性效应及其在鱼体中的富集 ..... 夏锦瑜 王冬兰 张志勇 余向阳 黄东林 刘贤进 (1088)

抗脱氧雪腐镰刀菌烯醇噬菌体单链抗体库的构建与鉴定 ..... 周艳红 蔡 芳 丁村村 史建荣 (1093)

大肠杆菌 ERIC-PCR 分子分型方法的建立及其初步应用 ..... 张 辉 杨振泉 赵 隼 魏瑞成 王 冉 (1098)

农业经济

国库集中支付体制下省级农业科学院的财务管理 ..... 沈建新 周 娜 (1104)

研究简报

水葫芦青贮饲喂羊的育肥效果 ..... 白云峰 周卫星 严少华 刘 建 张 浩 蒋 磊 (1108)

两种中药注射液对内毒素性肾衰家兔空肠黏膜和肝脏组织结构的影响

..... 周金星 宁康健 王 珏 李升和 殷定忠 冯保明 (1111)

长江流域 3 个克氏原螯虾野生群体遗传结构的微卫星分析 ..... 彭 刚 刘伟杰 李佳佳 严维辉 唐建清 (1115)

包装方式对冷藏荠菜的保鲜效果 ..... 张艳芬 姜 丽 蒋 娟 侯田莹 郝志芳 (1118)

# JIANGSU JOURNAL OF AGRICULTURAL SCIENCES

Vol. 26 No. 5 October 31 2010

## CONTENTS

### CROP GENETICS AND BREEDING · FARMING AND CULTIVATION · PHYSIOLOGY AND BIOCHEMISTRY

- Establishment of SSR Fingerprint Map and Genetic Similarity of Varieties (Lines) in *Japonica* Rice (*Oryza sativa* L.)  
..... CHENG Bao-shan, WANG Jian, XU Wei-jun, YANG Jia-yin (897)
- Characteristics of Nitrogen Uptake and Distribution in Different Nitrogen Accumulation Types of *Indica* Rice  
..... ZHANG Yue-fang, CHEN Pei-feng, ZHANG Chuan-sheng, DONG Gui-chun, YANG Lian-xin, HUANG Jian-ye, WANG Yu-long (904)
- Inheritance and Combining Ability of Grain Falling Number in Winter Wheat ..... XUE Xiang, GAO Qing-lu, YANG Zhong-qiang (910)
- Characterization of Cotton (*Gossypium Hirsutum* L.) Cytoplasmic Male Sterility and Restoration by cDNA-AFLP Analysis  
..... LI Mao-feng, XU Qi, LIU Kang, ZHANG Tian-zhen (914)
- The Construction of Oilseed Rape RNA Interference (RNAi) Library ..... TAN Xiu-hua, WU Yu-yong, SHAN Chang-min, MA Li-xin (920)
- Genetic Diversity Analysis of Landraces and Improved Cultivars in Sweetpotato  
..... HU Ling, LI Qiang, WANG Xin, TANG Zhong-hou, LI Xiu-ying, LI Hong-min, XIE Yi-ping, TANG Jun, CAO Qing-he, MA Dai-fu (925)
- Cluster Analysis of Yield and Botanic Characters of Napier Grass (*Pennisetum purpureum* Schum.) Inbred Vegetative Lines  
..... RAN Jing-song, GU Hong-ru, SHEN Yi-xin, DING Cheng-long, ZHANG Xia (936)
- Response of Photosynthesis of Leaves to Light and Temperature in *Eichhornia crassipes* in Jiangsu Province  
..... LI Xia, REN Cheng-gang, WANG Man, SHENG Jing, ZHENG Jian-chu (943)

### PLANT PROTECTION

- Resistances of Four Sets of Rice Varieties to 19 Strains of *Magnaporthe grisea* in Jiangsu Area  
..... ZHANG Lei, ZHANG Qi-jun, CHENG Zhao-bang, YANG Hao, ZHOU Yi-jun, LÜ Chuan-gen (948)
- Composition and Pathogenicity of the *Fusarium graminearum* Species Complex in Main Winter Wheat Production Areas of China  
..... HU Ying-chun, LI Wei, CHEN Huai-gu, ZHOU Yi-jun (954)

### SOIL FERTILIZER · RESOURCE AND ENVIRONMENT

- Effects of Phosphorus Fertilization on Oilseed Rape (*Brassica napus* L.) Cultivation in Hilly Areas of Jiangsu Province  
..... NING Yun-wang, ZHANG Yong-chun, WANG Ji-dong, XU Xian-ju, WANG Yin, LU Jian-wei (961)
- Effects of Spraying  $MnSO_4 \cdot H_2O$  on Yield and Contents of Total Free Organic Acid and Guanosine of *Pinellia ternata*  
..... YANG Lei, WANG Kang-cai, LUO Qing-yun, TANG Xiao-qing, TANG Xing-li, XIAO Ya-wen (966)
- Microbial and Physicochemical Properties of the Mixture of Water Hyacinth Residue and Excrement through Vermicomposting  
..... YU Jian-guang, CHANG Zhi-zhou, LI Rui-peng (970)
- Effect of Ammonium Nitrogen/Nitric Nitrogen on Al Toxicity in Rice  
..... ZHANG Qi-ming, ZHAO Xue-qiang, CHEN Rong-fu, DONG Xiao-ying, SHEN Ren-fang (976)
- Effect of Foliage-spraying Cu Fertilizer on Photosynthetic Characteristics and Chlorophyll Fluorescence Parameters of *Paeonia lactiflora*  
..... LIU Hai-qin, WANG Kang-cai, LUO Qing-yun, XING Jian-yong (982)

### ANIMAL HUSBANDRY AND VETERINARY SCIENCES · AQUICULTURE

- Establishment of Indirect ELISA for Detection of Antibodies against *Mycoplasma hyopneumoniae* P36 Protein  
..... ZHU Yong-qin, FENG Zhi-xin, LIU Mao-jun, WU Xu-su, SHAO Guo-qing (987)
- Influence of Porcine Circovirus Type 2 and Macrophages on the Expression of IL-6, IL-10 and Their Receptors of Piglet Lymphocytes  
*In Vitro* ..... CHEN Geng, HUA Li-zhong, ZHANG Shu-xia (993)
- Establishment of KRG Method for Serotyping *Haemophilus parasuis* and Its Application in Epidemiology Study  
..... CHU Yue-feng, GAO Peng-cheng, ZHAO Ping, HE Ying, FAN Hu-qing, LU Zhong-xin, ZHAO Hai-yan (999)

- Effects of Selenium and Methionine Supplemented in Diets for Breeding Hens on Antioxidative Activity of the Breeding Eggs  
 ..... ZHANG Wei-qing, PENG Zeng-qi, PAN Xiao-jian, WANG Zhang-gui, JIN Hong-guo, WANG Rong-rong (1003)
- Effect of Antimicrobial Lipopeptide on Production Performance and Immunity in Broilers  
 ..... DU Hai-ming, QI Guang-zhou, WANG Jian-jun, ZHANG Xu-hui, LU Zhao-xin, WANG Tian (1009)
- Effects of Sulfated Polysaccharide Prescriptions on Chicken Splenic and Peripheral Lymphocyte Proliferation  
 ..... GUO Zhen-huan, WANG Zhe-ci, MA Xia, CAO Bao-zhu, QIU Jing,  
 FANG Gang, ZHU Lin, ZHANG Chun-yuan, WANG Xing-xiang, HU Yuan-liang (1015)
- Polymorphism of the Exons of Growth Hormone (*GH*) Gene in Goose  
 ..... DONG Biao, WANG Jian, DUAN Xiu-jun, SUN Guo-bo, ZHU Shan-yuan, LI Xiao-fen (1020)
- Isolation and Genetic Diversity Analysis of Microsatellite in *Hyriopsis cumingii* ..... ZHU Xiao-yu, ZHOU Yu-fang, SHU Miao-an (1026)

## HORTICULTURE

- Genetic Diversity of *Acer L.* Germplasm Revealed by Sequence-related Amplified Polymorphism (SRAP) Markers  
 ..... LI Qian-zhong, LIU Xiao-hong, SU Jia-le, TAO Jun (1032)
- Optimization of SRAP Marker Reaction System and Genetic Diversity for *Carya illinoensis* Koch  
 ..... LIU Guang-qin, WANG Peng-liang, ZHOU Bei-bei, LÜ Zhi-peng, WANG Hai-yan (1037)
- Effects of Different Bags on the Physiology and Quality of Ciguang Pears during Storage  
 ..... LIN Jing, YANG Qing-song, LI Xiao-gang, YAN Zhi-mei, WANG Zhong-hua, CHANG You-hong (1043)
- Establishment and Analysis of the Development Model of Blackberry Cultivar Boysen Fruit  
 ..... WU Wen-long, WANG Xiao-min, ZHAO Hui-fang, FANG Liang, LÜ Lian-fei, LI Wei-lin (1048)

## PROCESSING AND STORAGE · QUALITY SAFETY

- Physicochemical Properties of Electrolyzed Water during Storage and Its Bactericidal Effect on Shrimp  
 ..... XIE Jun, SUN Xiao-hong, PAN Ying-jie, ZHAO Yong (1053)
- Effect of Vacuum Precooling and Storage Temperature on Quality of Spinach ..... XIE Jing, LIU Min (1060)
- Effect of Conjugated Linoleic Acid on Flavor Compounds in Cherry Valley Duck Meat  
 ..... ZHANG Jing-jing, WANG Xi-chang, LIU Yuan, GU Sai-qi (1064)
- The Unit Structure of Proanthocyanidin from Grape Seed ..... LI Chun-yang, ZHANG Hong-cheng, WANG Nai-fu, DAI Yu-xiang (1070)
- Identification of Chicken, Duck and Goose Derived Materials by Microsatellite Markers  
 ..... ZHENG Xin, YAO Da-wei, XU Jia-rong, ZHOU Guang-hong, XU Xing-lian, YANG De-ji (1078)
- Removal Method of Imidacloprid Residues in Pakchoi ..... LUO Ai-lan (1083)
- Toxic Effect and Bioconcentration of Chlorpyrifos and Profenofos in Crucian Carp (*Carassius auratus*)  
 ..... XIA Jin-yu, WANG Dong-lan, ZHANG Zhi-yong, YU Xiang-yang, HUANG Dong-lin, LIU Xian-jin (1088)
- Construction and Identification of Phage ScFv Library against Deoxyvalenol  
 ..... ZHOU Yan-hong, JI Fang, DING Chen-chen, SHI Jian-rong (1093)
- Generating of ERIC-PCR Molecular Typing Method and Its Application in *Escherichia coli*  
 ..... ZHANG Hui, YANG Zhen-quan, ZHAO Jun, WEI Rui-cheng, WANG Ran (1098)

## AGRICULTURAL ECONOMICS

- Financial Management for Provincial Academies of Agricultural Sciences in Treasury Centralized Payment  
 System ..... SHEN Jian-xin, ZHOU Na (1104)

## BRIEF REPORTS

- Effects of Feeding Water Hyacinth Silage on Lambs Fattening  
 ..... BAI Yun-feng, ZHOU Wei-xing, YAN Shao-hua, LIU Jian, ZHANG Hao, JIANG Lei (1108)
- Effects of Two Traditional Chinese Herbal Medicine Injection on the Jejunum and Liver Tissue Structure in Renal Failure Rabbit  
 Induced by Endotoxin ..... ZHOU Jin-xing, NING Kang-jian, WANG Jue, LI Sheng-he, YING Ding-zhong, FENG Bao-ming (1111)
- Microsatellite DNA Analysis of Genetic Structure of Three Wild Populations of *Procambarus clarkii* in the Yangtze River Basin  
 ..... PENG Gang, LIU Wei-jie, LI Jia-jia, YAN Wei-hui, TANG Jian-qing (1115)
- Effects of Packing Manner on Fresh-keeping of *Capsella bursa-pastoris* (L.) Medicus  
 ..... ZHANG Yan-fen, JIANG Li, JIANG Juan, HOU Tian-ying, YU Zhi-fang (1118)