

ISSN 1000-7091



华北农学报

ACTA AGRICULTURAEBOREALI-SINICA

■中国精品科技期刊 ■中文核心期刊 ■中国科学引文数据库核心期刊 ■
■中国科技核心期刊 ■中国农业核心期刊 ■RCCSE中国核心学术期刊 ■

2012 第27卷 第3期
Vol. 27 No. 3

华北农学报编辑部



目 次

- 大豆 *GmHKT6;2* 基因的克隆与表达特性分析 陈华涛, 陈新, 顾和平, 陈满峰, 张红梅, 裴星星, 崔晓艳(1)
甘蓝型油菜 *BnCOP9* 基因的克隆及其环境信号响应分析 王政, 谭小力, 张志燕, 顾守来, 李冠英, 陈宇(6)
亚麻 *MS2-F* 基因的 RNAi 表达载体构建 斯钦巴特尔, 张辉, 贾霄云, 高风云, 张立华, 任龙梅(12)
烟草 3 个甜菜碱醛脱氢酶基因的克隆及序列分析 林世锋, 任学良, 王轶, 王东茂, 张拓, 王仁刚(17)
大豆苹果酸脱氢酶基因的电子克隆与生物信息学分析 李文爽, 刘渊, 常文锁, 刘梦星, 李喜焕(23)
大豆体细胞胚胎发生再生体系的建立与优化 雷海英, 武擘, 贾彦琼, 王玺, 李莉(29)
农杆菌介导大豆不同外植体遗传转化研究 刘翠, 李喜焕, 常文锁, 张春锋, 张彩英(35)
谷子弯孢病菌 *Clmk-1* 基因克隆和初步分析 李志勇, 郝志敏, 刘磊, 董志平, 董金皋(41)
寿光地区感病辣椒 TYLCV 的分子鉴定和病毒 DNA-A 序列分析 刘春香, 刘彩云, 李会平, 曹京(46)
黄瓜黄色子叶突变体遗传及相关 AFLP 标记 王惠哲, 李淑菊, 杨瑞环, 管炜(50)
火把梨 14-3-3 基因的克隆与序列分析 王光勇, 刘迪秋, 李旻, 饶健, 孙兵召, 丁元明(55)
梨茎尖中 *PpKO* 基因表达量的实时荧光定量 PCR 分析 田义轲, 李节法, 王彩虹, 殷豪, 白牡丹(62)
水分胁迫柑橘叶片均一化全长 cDNA 文库的构建及 EST 分析 郭九峰, 孙国琴, 乔慧蕾(67)
MC4R 与 *Leptin*, *MC3R* 和 *CCKAR* 基因的互作研究 张冬杰, 汪亮, 刘娣(72)
建鲤 *IGFBP1* 基因的克隆及与增重相关的 SNP 位点分析 魏可鹏, 俞菊华, 李红霞, 李建林, 唐永凯, 夏正龙(75)
绵羊 *MSTN* 基因启动子区 SNPs 分析 贺三刚, 陈芯, 刘晨曦, 刘国松, 刘明军(81)
猪 *SLA-DQA* 基因外显子 4 多态性分析 孔晶晶, 滚双宝, 杨巧丽, 王国旺, 刘丽霞, 李峰松, 姜天团, 封洋, 赵生国(86)
梅花 *PmCBF* 基因的克隆及表达 张杰, 杨炜茹, 郝瑞杰, 张启翔(91)
沙冬青脱水素基因转化紫花苜蓿的研究 聂利珍, 郭九峰, 孙杰, 孙国琴, 刘永志(96)
简化一步多重 RT-PCR 法快速检测芜菁花叶病毒 曾钢, 叶艳英, 同晓红, 马荣才, 唐乐尘, 姚磊(102)
高粱微卫星分析中遗传完整性样本量的确定 许玉凤, 朱远英, 张志娥, 卢新雄(108)
巴美肉羊 *INHA* 和 *INHBA* 基因多态性与产羔数关系研究 索峰, 刘永斌, 特日格勒, 祁云霞, 何小龙, 韩有胜, 张莉, 李虎山, 荣威恒(115)
类猪圆环病毒因子 P1 核酸链型和极性的研究 温立斌, 何孔旺, 倪艳秀, 张雪寒, 李彬, 王小敏, 郭容利, 周俊明, 俞正玉, 茅爱华, 吕立新(120)
口服 O157:H7($\Delta hly\Delta stx\Delta toxB$)能够减少 O157:H7 在山羊体内的定殖 张雪寒, 何孔旺, 俞正玉, 茅爱华(123)
一株 *Agaricus* 属野生菌的分离与鉴定 尹永刚, 刘宇, 许峰, 赵爽, 黄仕海, 王守现, 耿小丽(126)
CO₂ 加富下空气湿度调控对高温大棚嫁接黄瓜逆境生理的影响 刘杰才, 崔世茂, 吴玉峰, 其日格, 霍秀文, 杨文秀, 付崇毅, 王玉静(130)
NaCl 及等渗 PEG 胁迫对番茄叶片光合特性及蔗糖代谢的影响 鲁少尉, 齐飞, 李天来(136)
土壤容重对高产玉米根系生长的影响及调控研究 郑存德, 依艳丽, 张大庚, 徐龙超(142)
3 种质地土壤上 As 胁迫对小麦灌浆期旗叶光合特性的影响 邵云, 王钰亮, 王小洁, 姜丽娜, 刘会娟, 李春喜(150)
低温胁迫下籽用西瓜幼苗生理变化与耐冷性的研究 杨燕, 王萍, 赵清岩, 张岩(156)
豌豆灌浆期叶片抗氧化系统对土壤水分变化的响应 同志利, 牛俊义, 席玲玲, 周海燕, 蒋娟(161)
冀西北高寒半干旱区不同萝卜品种的生长发育特性比较 张阔, 孙志梅, 王平, 柴建明, 马文奇(167)
3 种农药对烤烟旺长期叶绿素含量及相关酶活性的影响 刘鹏飞, 段宾宾, 赵铭钦, 李元实, 韩富根(173)
盐碱胁迫对枸杞生长及根际适应能力的影响 付任胜, 尹立荣, 陈磊, 孙鹏, 管长志(177)
接种 AM 真菌对烤烟生长、营养及抗旱性的影响 周霞, 梁永江, 张长华, 陈小明, 黄建国(181)
转 *PuP5CS* 基因烟草对低温胁迫的生理响应 徐博, 任伟, 徐安凯, 王志锋, 孙启忠(186)
外源水杨酸对冷藏鸭梨呼吸电子传递链的影响 赵明新, 孙文泰, 张江红, 李红旭, 张玉星(191)
水氮调控对小麦植株干物质积累、分配与转运的影响 董剑, 赵万春, 高翔, 陈其皎, 王军卫(196)
温室种植年限对山西石灰性土壤磷含量及无机磷形态的影响 王劲松, 焦晓燕, 王立革, 董二伟(203)
苗期剪叶次数对烤烟大田生长氮代谢的影响 邓世媛, 谢文婷, 罗福命, 王维, 王俊, 陈建军, 凌寿军, 肖兴强(208)
两种磷源与水平对 3 月龄獭兔饲养性能与养分利用的影响 李清宏, 张亚强, 叶志远, 王保军(213)
西门塔尔牛 *bLF-exon11* 基因多态性及其与乳房炎易感性和部分乳性状的相关分析 王国富, 吴慧光, 孙国权, 李俊雅, 高雪, 王景山, 王玉泉, 高树新(218)
大豆胞囊线虫 VIGS 载体的构建与鉴定 张怡, 阮九霄, 马晓萌, 傅露露, 乔月娥, 段素娟, 孟娉, 李成伟(223)
东北地区玉米大斑病菌生理分化研究 张秀霞, 高增贵, 周晓锟, 张硕, 周艳波(227)
小麦植株中啶虫脒残留的气相色谱分析方法的建立 李广领, 王建华, 陈锡岭, 武予清, 李金丽, 肖娜娜(231)
不同类型烟草常规化学成分与中性致香物质含量分析 赵晓丹, 史宏志, 钱华, 杨兴有, 靳冬梅, 王瑞云, 杨园园(234)

CONTENTS

| | |
|---|-----------------------------------|
| Cloning and Expression Pattern Analysis of <i>GmHKT6;2</i> in Soybean | CHEN Hua-tao <i>et al</i> (1) |
| Cloning and Response to Environmental Cues of <i>BnCOP9</i> from <i>Brassica napus</i> | WANG Zheng <i>et al</i> (6) |
| Construction of RNAi Vectors of Flax Male Sterility Related <i>MS2-F</i> Gene | SIQIN Bateer <i>et al</i> (12) |
| Cloning and Sequence Analysis of Three Betaine Aldehyde Dehydrogenase Genes in Tobacco (<i>Nicotiana Tabacum</i>) | LIN Shi-feng <i>et al</i> (17) |
| <i>In Silico</i> Cloning and Bioinformatics Analysis of <i>GmMDH1</i> Gene in Soybean (<i>Glycine max.</i> L) | LI Wen-shuang <i>et al</i> (23) |
| Establishment and Optimization of Regeneration System from Somatic Embryogenesis in Soybean | LEI Hai-ying <i>et al</i> (29) |
| Studies of <i>Agrobacterium</i> -mediated Genetic Transformation by Different Explants in Soybean (<i>Glycine max.</i> L) | LIU Cui <i>et al</i> (35) |
| Molecular Cloning and Preliminary Analysis of <i>Clmk-1</i> Gene in <i>Cochliobolus lunatus</i> | LI Zhi-yong <i>et al</i> (41) |
| Molecular Identification and DNA-A Gene Sequence Analysis of Tomato Yellow Leaf Curl Virus on Pepper (<i>Capsicum annuum</i>) in Shouguang Region | LIU Chun-xiang <i>et al</i> (46) |
| Genetic Analysis and AFLP Markers Associated to the Yellow Cotyledon Trait in Cucumber | WANG Hui-zhe <i>et al</i> (50) |
| Isolation and Expression Analysis of a 14-3-3 Gene from <i>Pyrus pyrifolia</i> Nakai cv. Huobali | WANG Guang-yong <i>et al</i> (55) |
| Expression Analysis of <i>PpKO</i> Gene in Pear Shoots Apical Tissue by Real-time Fluorescent Quantitative PCR | TIAN Yi-ke <i>et al</i> (62) |
| Construction and EST Analysis of a Normalized Full-Length cDNA Library from Water Stressed Korshinsk Peashrub Leaves | GUO Jiu-feng <i>et al</i> (67) |
| The Interaction of <i>MC4R</i> with <i>Leptin</i> , <i>MC3R</i> and <i>CCKAR</i> Genes | ZHANG Dong-jie <i>et al</i> (72) |
| Isolation of <i>IGFBP1</i> and SNP Loci Related to Body Weight Gain in <i>Cyprinus carpio</i> var. <i>jian</i> | WEI Ke-peng <i>et al</i> (75) |
| Analysis of SNPs in Promoter Region of Myostatin in sheep | HE San-gang <i>et al</i> (81) |
| Analyzing Polymorphism of <i>SLA-DQA</i> Gene exon4 | KONG Jing-jing <i>et al</i> (86) |
| Cloning and Expression of <i>PmCBF</i> Gene from <i>Prunus mume</i> | ZHANG Jie <i>et al</i> (91) |
| Research on Transformation of <i>DHN</i> Gene from <i>Ammopiptanthus mongolicus</i> into Alfalfa (<i>Medicago sativa</i> L.) | NIE Li-zhen <i>et al</i> (96) |
| Quick Detection of Turnip Mosaic Virus by One-Step Multiple RT-PCR | ZENG Gang <i>et al</i> (102) |
| Determination of the Sample Size in Sorghum (<i>Sorghum bicolor</i> L. Moench.) Genetic Integrity Analysis with Microsatellites | XU Yu-feng <i>et al</i> (108) |
| Association of <i>INHA</i> and <i>INHBA</i> Genes Polymorphism with Prolificacy of Bamei Mutton Sheep | SUO Feng <i>et al</i> (115) |
| Studies on the Nucleic Acid Strandedness and Polarity of Porcine Circovirus-like Agent P1 | WEN Li-bin <i>et al</i> (120) |
| Oral Inoculation with O157:H7 ($\Delta hly\Delta stx\Delta toxB$) Leads to Decreased Shedding in Goats after Challenge with <i>Escherichia coli</i> O157:H7 | ZHANG Xue-han <i>et al</i> (123) |
| Isolation and Identification for a Wild Fungus of Genus <i>Agaricus</i> | YIN Yong-gang <i>et al</i> (126) |
| The Effect of Air Humidity on the Stress Physiology of the Grafted Cucumber in High Temperature Plastic Tunnel under CO_2 Enrichment | LIU Jie-cai <i>et al</i> (130) |
| Effect of NaCl and PEG Iso-osmotic Stresses on Photosynthetic Characteristics and Sucrose Metabolizing in Tomato Leaf | LU Shao-wei <i>et al</i> (136) |
| Effects of Bulk Density on Root Growth of High Yield Maize and Their Regulation | ZHENG Cun-de <i>et al</i> (142) |
| Effects of Arsenic Stress on Growth and Photosynthetic Characteristics of Wheat during Filling Stage in Three Textures of Soil | SHAO Yun <i>et al</i> (150) |
| Study on Relationship between Physiological Changes and Chilling Tolerance in Seed-used Watermelon Seedling under Low-temperature Stress | YANG Yan <i>et al</i> (156) |
| Response of Pea Leaves Antioxidant System to Soil Water in Filling Stage | YAN Zhi-li <i>et al</i> (161) |
| Comparative Studies on Growth Characteristics of Different Radish Varieties in the Northwest area of Hebei Province | ZHANG Kuo <i>et al</i> (167) |
| Impact of Three Kinds of Pesticides on Period Chlorophyll Content and Related Enzyme Activities in Tobacco Rapid Growth | LUI Peng-fei <i>et al</i> (173) |
| Effect of Alkali-saline Stress on Growth and Adaptive Capacity to Rhizosphere of <i>Lycium chinense</i> Mill | FU Ren-sheng <i>et al</i> (177) |
| Effects of Arbuscular Mycorrhizal Fungi on Growth, Nutrition and Drought Resistance of Flue-cured Tobacco Seedlings | ZHOU Xia <i>et al</i> (181) |
| Physiological Responses to Chilling Stress in Transplastomic Tobacco with <i>PuP5CS</i> Gene | XU Bo <i>et al</i> (186) |
| Effect of Exogenous Salicylic Acid Treatment on Respiratory Chain of Ya-li Pears Stored at a Low Temperature | ZHAO Ming-xin <i>et al</i> (191) |
| Effects of Irrigation and Nitrogen Control on Accumulation, Distribution and Transport of Dry Matter of Wheat Plant | DONG Jian <i>et al</i> (196) |
| Changes of Calcareous Soil P Stocks and Inorganic P Fractions of Solar Greenhouse with Planting Term in Shanxi | WANG Jin-song <i>et al</i> (203) |
| Effects of Clipping Times in Seedling Stage on Nitrogen Metabolism during Growth Phase in Field of Flue-cured Tobacco | DENG Shi-yuan <i>et al</i> (208) |
| Influence of Level and Source with P on Growth Performance, Nutrient Utilization Efficiency of 3 Month Rex Rabbit | LI Qing-hong <i>et al</i> (213) |
| Association Analysis of Polymorphism in the Bovine <i>Lactoferrin</i> Gene <i>Exon11</i> with the Susceptibility to Mastitis and Part Milk Trait in Simmental Cattles | WANG Guo-fu <i>et al</i> (218) |
| Identification and Construction of the Recombinant Vector of Virus Induced Gene Silencing of Soybean <i>Heterodera glycines</i> Ichinohe | ZHANG Yi <i>et al</i> (223) |
| Identification of Physiological Races of <i>Exserohilum turcicum</i> in Northeastern China | ZHANG Xiu-xia <i>et al</i> (227) |
| Determination of Acetamiprid Residues in Wheat Plants by GC-NPD | LI Guang-ling <i>et al</i> (231) |
| Comparison of Composition and Contents of Chemical Component and Neutral Aroma Components in Different Types of Tobacco | ZHAO Xiao-dan <i>et al</i> (234) |