



## 目 次

- 水分亏缺条件下豌豆肌动蛋白异型体 *PEAcII* 基因的表达 ..... 张少斌, 刘 曦, 赵依诗, 汪 澈, 刘国琴(1)  
45S rDNA 基因在新麦草染色体上的分布 ..... 云 岚, 云锦风, 王秀娥, 李海凤, 方宇辉(5)  
新西兰白兔  $\gamma$ -干扰素在昆虫细胞中的表达及其活性测定 ..... 王 芳, 胡 波, 任雪枫, 范志宇, 张则斌, 徐为中, 何孔旺(9)  
中国荷斯坦牛 *HSP70* 基因 3'-非翻译区多态性与耐热性的关联分析 ..... 杜方磊, 王洪梅, 黄金明, 李建斌, 仲跻峰, 张廷荣, 刘剑飞, 李秋玲, 王长法(14)  
*H5N1* 亚型禽流感病毒核衣壳蛋白(NP)基因的进化及原核表达 ..... 邬成业, 王爱萍, 郝慧芳, 史平玲, 游雷鸣, 李培培, 张改平(19)  
高抗体水平肉种鸡 H9N2 的分离鉴定及 *HA* 基因序列分析 ..... 王友令, 袁小远, 徐怀英, 张玉霞, 秦卓明(23)  
狂犬病病毒糖蛋白胞外区基因的原核表达、纯化及鉴定 ..... 杨艳艳, 王 丽, 杨继飞, 郭玉宝, 滕 蔓, 邓瑞广, 肖治军, 张改平(28)  
口蹄疫病毒 O/HN/93 疫苗株的拯救及病毒活性鉴定 ..... 曹伟军, 李平花, 白兴文, 卢曾军, 孙 普, 刘在新(32)  
甜瓜 *PGIP* 基因的克隆及表达初步分析 ..... 段玉娟, 郭庆勋, 刘志伟, 宋 阳, 怀凤涛(38)  
利用精子介导法建立 *hHT/hDAF* 双基因转移小鼠模型 ..... 郭战军, 马 燕, 李三华, 韩瑞发, 李胜芝, 孙 光, 乔宝民, 马腾骥, 陈永福(43)  
蒙古羊卵巢组织差异表达基因 *ADAMTS1* 的电子克隆及 RT-PCR 验证 ..... 蒙古羊卵巢组织差异表达基因 *ADAMTS1* 的电子克隆及 RT-PCR 验证(47)  
湖羊、小尾寒羊及其杂交后代 *BMPR-IB* 基因多态性 ..... 徐小波, 王公金, 窦德宇, 储国良, 赵 伟, 花为华, 刘亚柏(52)  
转 *Bt + Sck* 双价基因棉花的遗传稳定性研究 ..... 郭金英, 张天真(55)  
内蒙古贝加尔针茅草原细菌多样性的 PCR-DGGE 分析 ..... 张永生, 赖 欣, 张静妮, 李 刚, 赵 帅, 杨殿林(58)  
亚比棉  $\times$  海岛棉杂种 F<sub>1</sub> 的遗传分析 ..... 渠云芳, 黄普玲(64)  
<sup>60</sup>Co  $\gamma$  射线辐照花生种子后代的 SSR 分析 ..... 陈 静, 胡晓辉, 苗华荣, 石运庆, 崔凤高, 吴兰荣, 孙令强, 禹山林(68)  
绍兴鸭微卫星 DNA 遗传多样性分析 ..... 袁青妍, 陶争荣, 李国勤, 沈军达, 陈奕春, 陈文标, 王德前, 虞永亮, 田 勇, 原爱平, 卢立志(73)  
西瓜种质资源遗传差异的 SRAP 和 EST-SSR 分析 ..... 赵胜杰, 刘文革, 阎志红, 何 楠, 包文风(76)  
大白菜遗传图谱的构建及与染色体关联分析 ..... 原玉香, 张晓伟, 孙日飞, 王晓武, 张 豔, 蒋武生, 姚秋菊, 耿建峰(80)  
冬小麦调亏灌溉下次生根和初生根对植株生长的影响 ..... 薛丽华, 段俊杰, 王志敏, 王润正(87)  
水杨酸提高黄瓜低温耐受性的生理及 *CATmRNA* 基因响应机制 ..... 王 磊, 刘兴旺, 金宝燕, 陈明远, 张 雷, 任华中(92)  
NaCl 胁迫对燕麦与小麦幼苗生长及其营养吸收的影响 ..... 康文钦, 蕤荷雅, 张子义, 刘景辉, 樊明寿(97)  
遮荫对茄子幼苗生长和光合特性的影响 ..... 吴雪霞, 查丁石(102)  
不同水稻品种种子萌发期耐镉性的研究 ..... 何俊瑜, 任艳芳, 周国强, 杨良静, 王阳阳(108)  
不同晾房晾制白肋烟中性香气成分含量及感官品质的差异 ..... 史宏志, 杨兴有, 周开绪, 李 浩, 赵水利, 张定贵, 谢子发(113)  
辐射对玉米幼苗生长、叶绿素含量及细胞超微结构的影响 ..... 宇克莉, 孟庆敏, 邹金华(118)  
温室西葫芦生长动态及干物质积累与分配研究 ..... 李 燕, 温祥珍, 雷逢进, 李亚灵(124)  
浑善达克沙地麻叶荨麻必需矿物质含量及其季节动态变化 ..... 张晓庆, 李维红, 金艳梅(129)  
栽培方式对玉米群体结构的调控效应 ..... 齐 华, 梁 熠, 赵 明, 王敬亚, 吴亚男, 刘 明(134)  
北方粳型超级稻根系生长与地上部分生物量的变化 ..... 许 明, 贾德涛, 陈温福(140)  
丁二酸浸种对玉米根系生长和生理特性的影响 ..... 刘福建, 杨青华(145)  
缺锌对不同基因型玉米激素代谢的影响 ..... 王景安, 柴 娜, 梁晓华(148)  
水氮处理对日光温室不同茬口黄瓜风味品质的影响 ..... 王实娟, 王永泉, 王树忠, 张振贤, 高丽红(153)  
冬小麦-夏玉米复种连作中定位水氮组合对籽粒灌浆特性及产量的影响 ..... 郭 丽, 张风路, 贾秀领, 任会芳, 董志强, 张丽华, 邢素丽(159)  
秸秆还田对冬小麦农田土壤无机氮和土壤脲酶的影响 ..... 赵 鹏, 陈 阜, 李 莉(165)  
秸秆还田对夏玉米养分含量的影响 ..... 王春虎, 陈士林, 冯荣成(170)  
硫对烤烟钾营养吸收与积累的影响 ..... 朱英华, 屠乃美, 肖汉乾, 张 国(175)  
不同冬小麦品种对氮素吸收利用效率的差异研究 ..... 赵 刚, 王淑英, 王 勇, 李尚中, 唐小明, 张建军, 王 磊, 党 翼(180)  
灌溉量对灌浆期麦田土壤呼吸的影响 ..... 王建林, 赵风华, 欧阳阳(186)  
不同品质类型冬小麦气冠温差的差异及其与产量性状的关系 ..... 李豪圣, 李法计, 程敦公, 刘建军, 付雪丽, 刘爱峰, 宋健民(190)  
土壤微生物对不同植被类型土壤呼吸速率影响的研究 ..... 屈 冉, 李俊生, 肖能文, 胡理乐, 罗建武, 范俊韬(196)  
低磷石灰性土壤加入四种作物秸秆土壤微生物量磷的变化特征 ..... 赵小蓉, 周 然, 李贵桐, 林启美(200)  
重度苏打碱土饱和导水率特征分析 ..... 迟春明, 王志春(205)  
钾素对云烟 202 干物质积累和光合特性的影响 ..... 李 杨, 于吉琳, 齐 华, 刘 明(209)  
亚硫酸氢钠和碳酸氢钾对甜菜光合作用、块根产量及含糖率的影响 ..... 斯 琴, 魏 磊, 田自华, 邵金旺, 李国荣, 史树德(212)  
不同基因型烤烟烟叶碳氮代谢差异研究 ..... 张生态, 黄元炯, 任庆成, 杨铁钊(217)  
不同覆盖方式下烤烟根际土壤微生物数量动态变化 ..... 时向东, 耿 伟, 焦 枫, 石秋环, 张 雪(221)  
中间偃麦草抗小麦白粉病基因导入及其抗性评价 ..... 同金龙, 杨志坚, 孙美荣, 张晓军, 詹海仙, 李 欣(225)  
活体条件下玉米灰斑病病毒素对玉米胚根细胞膜透性的影响 ..... 王桂清, 张 涛, 徐秀德(231)  
两株杀鞘翅目害虫 Bt 菌株的生物活性及杀虫蛋白基因鉴定 ..... 初立良, 郑桂玲, 周洪旭, 李长友, 李国勋(235)

## CONTENTS

- Expression of *PEAc II* in Pea under Water Deficit ..... ZHANG Shao-bin *et al*(1)
- The Distribution of 45S rDNA in Chromosome of Russian Wild Ryegrass ..... YUN Lan *et al*(5)
- Expression of IFN- $\gamma$  of New Zealand Rabbit in Insect Cells and Its Antiviral Activity ..... WANG Fang *et al*(9)
- Polymorphism at 3'-UTR of the Heat Shock Protein 70 Gene and Its Relationship with Thermal Tolerance in Chinese Holstein ..... DU Fang-lei *et al*(14)
- Phylogenetic Analysis and Prokaryotic Expression of *NP* Gene from Subtype H5N1 of Avian Influenza Virus in *Escherichia coli* ..... WU Cheng-ye *et al*(19)
- Isolation, Identification and Molecular Characterization of a H9N2 Isolate from a Broiler Flock in High Antibody Level Against H9N2 ..... WANG You-ling *et al*(23)
- Prokaryotic Expression, Purification and Identification of Rabies Virus Glycoprotein Extracellular Domain Gene ..... YANG Yan-yan *et al*(28)
- Rescue and Identification of Virus Activity of Foot-and-Mouth Disease Virus Strain O/HN/93 from Full-length cDNA Clone ..... CAO Wei-jun *et al*(32)
- Cloning and Expression of *PGIP* Gene from *Cucumis melon* L. ..... DUAN Yu-juan *et al*(38)
- Establishment of Double-gene Transgenic Mouse Model for *hHT* and *hDAF* through SMGT ..... GUO Zhan-jun *et al*(43)
- In Silico Cloning and Verification by RT-PCR of Differentially Expressed *ADAMTS1* Gene between Mongolian Sheep Ovary ..... HE Xiao-long *et al*(47)
- Polymorphism of *BMPR-IB* Gene in Hu Sheep, Han Sheep, Dorper Sheep and Their Hybrids ..... XU Xiao-bo *et al*(52)
- Study on the Genetic Stability of Transgenic *Bt + Sck* Insect-resistant Cotton ..... GUO Jin-ying *et al*(55)
- Study on Soil Bacterial Community in *Stipa baicalensis* Steppe ..... ZHANG Yong-sheng *et al*(58)
- Genetic Analysis of Hybrid F<sub>1</sub> from (*G. arboreum* × *G. bickii*) × *G. barbadense* ..... QU Yun-fang *et al*(64)
- Microsatellite Analysis on Mutants of Peanut Induced by <sup>60</sup>Co  $\gamma$  ..... CHEN Jing *et al*(68)
- The DNA Genetic Diversity of Shaoxing Duck Populations ..... YUAN Qing-yan *et al*(73)
- Studies of Watermelon Genetic Diversity Using SRAP and EST-SSR ..... ZHAO Sheng-jie *et al*(76)
- Construction of a Genetic Linkage Map Anchoring to Chromosomes of Chinese Cabbage ..... YUAN Yu-xiang *et al*(80)
- The Effect of Secondary and Seminal Roots of Winter-wheat to Plant Growth under Regulated Deficit Irrigation Conditions ..... XUE Li-hua *et al*(87)
- Chilling Tolerance Physiological and *CAT* Gene Response Mechanism Induced by Salicylic Acid in Cucumber Seedling ..... WANG Lei *et al*(92)
- The Effects of NaCl on Growth and Nutrient Absorption in Oats (*Avena sativa* L.) and Wheat (*Triticum aestivum* L.) Seedlings ..... KANG Wen-qin *et al*(97)
- Effects of Shading on Growth and Photosynthetic Characteristics of Eggplant Seedling ..... WU Xue-xia *et al*(102)
- Study on Cadmium Tolerance of Different Varieties of *Oryza sativa* L. during Seed Germination Stage ..... HE Jun-yu *et al*(108)
- Differences in Contents of Neutral Aroma Components and Sensory Evaluation in Air-cured Burley Leaves from Different Curing Barns ..... SHI Hong-zhi *et al*(113)
- Effects of Cd<sup>2+</sup> on Seedling Growth, Chlorophyll Contents and Ultrastructures in Maize ..... YU Ke-li *et al*(118)
- Research on Dynamic Growth Process, Dry Matter Accumulation and Distribution in Greenhouse Zucchini ..... LI Yan *et al*(124)
- Essential Mineral Contents and Their Seasonal Dynamic Changes of Hempleaf Nettle (*Urtica cannabina* L.) in Ortindag Sandy Land ..... ZHANG Xiao-qing *et al*(129)
- The Effects of Cultivation Ways on Population Structure of Maize ..... QI Hua *et al*(134)
- Chang on Root Growth and Aerial Part Biomass in North China *Japonica* Super Rice ..... XU Ming *et al*(140)
- Effects of Soaking Seeds with Succinic Acid on Growth and Physiological Characteristic of Maize Roots ..... LIU Fu-jian *et al*(145)
- Effects of the Hormone Metabolism of Different Maize Genotypes under Zinc Deficiency ..... WANG Jing-an *et al*(148)
- Effects of Water and Nitrogen on Flavor Quality of Cucumber of Different Growing Seasons in Solar Greenhouse ..... WANG Shi-juan *et al*(153)
- Effects of Water and Nitrogen Location Study on Grain Filling Characteristics and Yield of Crop Rotation and Multiple Cropping ..... GUO Li *et al*(159)
- Effects of Straw Mulching on Inorganic Nitrogen and Soil Urease in Winter Wheat Field ..... ZHAO Peng *et al*(165)
- Research in the Effect of Nourishing Ingredient Dynamic Transformation of Straw for Wheat Return to Corn Field ..... WANG Chun-hu *et al*(170)
- Effect of S Concentration on Absorption and Accumulation of Potassium Nutrient in Flue-cured Tobacco ..... ZHU Ying-hua *et al*(175)
- Study on the Difference of Nitrogen Uptake Efficiency in the Different Wheat Varieties ..... ZHAO Gang *et al*(180)
- Effects of the Irrigation Quantity on Soil Respiration in Wheat Field in Filling Stage ..... WANG Jian-lin *et al*(186)
- Diversity and Association of Canopy Temperature Depression with Yield Traits in Different Quality Types of Winter Wheat Cultivars ..... LI Hao-sheng *et al*(190)
- Study on the Influence of Soil Microbial on Soil Respiration at Various Vegetations ..... QU Ran *et al*(196)
- The Changes of Microbial Biomass P in Two Calcareous Soils with Low Available P Following Cooperating Four Crop Straws ..... ZHAO Xiao-rong *et al*(200)
- The Saturated Hydraulic Conductivity of Hard Sodic Soil in Songnen Plain ..... CHI Chun-ming *et al*(205)
- Effects of Different Potassium Fertilizer Treatment on Dry Matter and Photosynthetic Physio-response of Yunyan202 ..... LI Yang *et al*(209)
- The Effects of Sodium Bisulfite and Potassium Bicarbonate on the Photosynthesis, Yield and Sugar Content of Sugar Beet (*Beta vulgaris* L.) ..... SI Qin *et al*(212)
- Differences in Foliar Carbon and Nitrogen Metabolism among Genotypes of Flue-cured Tobacco ..... ZHANG Sheng-jie *et al*(217)
- Dynamic Change of the Quantities of Different Mulching Methods on the Soil Microbe in Rhizosphere of Flue-cured Tobacco ..... SHI Xiang-dong *et al*(221)
- Transfer and Evaluation of Resistance to Powdery Mildew from *Thinopyrum intermedium* to Wheat ..... YAN Jin-long *et al*(225)
- The Effect of *Cercospora zae-maydis* Toxins on Membrane Permeability of Maize Radicle in Vivo ..... WANG Gui-qing *et al*(231)
- Identification of Insecticidal Protein Genes from Two *Bacillus thuringiensis* Strains with Insecticidal Activity Against Coleopteran Larvae ..... CHU Li-liang *et al*(235)