

江苏农业科学

第 52 卷 第 22 期 2024 年 11 月 20 日

目 次

●专论与综述

- 瓜类作物霜霉病研究进展 张惠敏, 闫洪朗, 王曼曼, 等(1)
- 硫——重要的植物土壤营养元素 丰智松, 刘青林, 万邦隆, 等(7)

●生物技术

- 月季水通道蛋白基因家族的生物信息学特征及干旱下的表达分析 李雪芬, 邓小辉, 陈清华(15)
- 基于转录组序列的万寿菊 SSR 标记开发及应用 郭俊伟, 马雪璟, 陈利文, 等(23)
- 烟草磺基转移酶 *NtSOT17* 基因的克隆及表达分析 王媛媛, 段丽丽, 姜超英, 等(31)
- 甘蓝型油菜 *BnaC03g56680D* 基因的生物信息及亚细胞定位分析 阮羽萱, 王 满, 贾立英, 等(38)

●遗传育种与耕作栽培

- 有机肥与甲壳素、芸苔素内酯互作对烤烟上部叶生长和品质的影响 刘君仁, 何佑弦, 张启莉, 等(44)
- 化控剂和喷施时期对夏玉米茎秆性状和产量形成的影响 文章荣, 刘汉松, 邢国文, 等(50)
- 玉米自交系萌发期耐盐性评价研究 张 健, 袁嘉玮, 王 璐, 等(56)
- 玉米自交系在苗期耐低氮能力的鉴定与筛选 武阳春, 高婷婷, 侯宗运, 等(62)
- 转 *GbHCT13*、*GbHCT15* 基因棉花的筛选鉴定及农艺性状、产量性状和纤维品质分析
..... 马克鹤, 张慧敏, 陈全家, 等(69)
- 戈卢别夫氏菌培养液对烤烟上部叶生理特性的影响 田 静, 魏嘉妤, 姚佳运, 等(78)
- 化学打顶剂对新疆奎屯主栽棉花品种生长发育的影响 张 文, 逯 涛, 王政洋, 等(85)
- 不同叶面肥喷施处理对棉花生长及产量品质的影响 叶淑娟, 张 宁, 成 芳, 等(90)
- 雪茄烟叶栽培中氮、有机肥、种植密度及留叶数与晾制后产量的经验模型
..... 于 瑶, 赵 栋, 龚雅诺, 等(97)
- 外源一氧化氮对铬胁迫下烟草生理及铬积累特性的影响 张留双, 林光俊, 伏心雨, 等(105)
- 2017—2022 年我国高粱品种主要性状变化趋势分析 侯 杰, 周 伟, 余忠浩, 等(112)

●植物保护

- 水稻穗部农艺性状与稻曲病抗性相关性研究 俞咪娜, 于俊杰, 汤袁博, 等(123)

扬辐粳系列水稻新品系稻瘟病抗性基因与穗颈瘟抗性分析	范德佳,王汝琴,陈士强,等(128)
棘孢木霉次级代谢产物麦角甾醇防治小麦赤霉病潜能分析	宋昊跃,刘 畅,庞 丽,等(133)
樟叶越桔内生真菌的生防潜力菌株筛选	吴博宇,严 冬,武波晓,等(140)

●园艺与林学

绿色木霉固态发酵基质及施磷对黄瓜幼苗生长和光合作用的影响	熊 荣,董佳伟,徐洪伟,等(147)
根际 pH 值对香蕉幼苗生物量和根系生长的影响	王丽霞,刘永霞,丁哲利,等(154)
生物炭施用对菊花连作土壤性质及其生长的影响	张晓波,闫 烨(162)
不同种源软枣猕猴桃果实表型性状及品质综合评价	陶双勇,王 澎,逢宏扬,等(168)
草莓叶片光合及叶绿素荧光特性对喷钙的响应	蒋 薇,张 佳,贾志航,等(174)

●畜牧兽医与水产蚕桑

基于转录组测序分析沙门氏菌感染对番鸭法氏囊的影响	徐文娟,陶志云,朱春红,等(179)
黔中金荞麦醇提物对断奶仔猪血清生化指标、免疫指标、腹泻及肠道菌群的影响	卢显希,张 涛,杜春林,等(186)

●贮藏加工与检测分析

肠杆菌 F8 - H 发酵道真烟叶宏基因组及相关性分析	黄 中,许怡娟,胡慧博,等(193)
密集烤房变温调控对上部烟叶香气物质和氨基酸含量的影响	邓奕龙,宇建金,申洪涛,等(202)
进口烟叶中键合态香气化合物对比分析研究	杨鹏飞,黄 凯,吴 薇,等(209)

●资源与环境

不同哈茨木霉制剂对植烟土壤真菌群落结构及功能的影响	李 澳,匡志豪,田梦强,等(215)
长期秸秆还田与耕作方式对稻田土壤有机碳及甲烷功能基因的影响	欧 茜,何 君,熊 瑞,等(222)
不同覆膜材料对沙地马铃薯产量及土壤细菌群落的影响	王 雯,秦富林,刘远超,等(228)
生草栽培对刺梨园土壤质量、酶活性和化学计量学的影响	翟泰雅,高小叶,张 涛,等(235)
常见灌木叶功能性状对土壤含水量的响应	刘 勇,张 兴,张洪运,等(243)
烟后轮作不同作物对植烟土壤的改善效果比较	曹深岭,王瑞宝,吴 剑,等(250)
基于土壤质地农田土壤水稳性团聚体及养分差异研究	段 淳,谢 珊,樊 洪,等(258)

●农业经济与管理

水污染治理、疫病强度与养殖资本化——以生猪产业为例	杨 青,陈晓虹,应瑞瑶(265)
基于短视频的新时代科学家精神叙事策略——以江苏省农业科学院科学家精神系列科普短视频为例	凡 燕,吴其凤,杨莉莹,等(274)
种业振兴背景下江苏种业企业发展水平提升路径	张 锋,陈小敏,姜昊辰(279)

JIANGSU AGRICULTURAL SCIENCES

Vol. 52 No. 22 November 20 2024

CONTENTS

Monograph and Review

- Research progress on downy mildew of melon crops Zhang Huimin, *et al* (1)
Sulfur: an important plant soil nutrient element Feng Zhisong, *et al* (7)

Bio-technology

- Bioinformatic characteristics of aquaporin gene family in *Rosa chinensis* and its expression analysis under drought stress
..... Li Xuefen, *et al* (15)
Development and application of marigold (*Tagetes erecta*) SSR markers based on transcriptome sequencing
..... Guo Junwei, *et al* (23)
Cloning and expression analysis of sulfotransferase *NtSOT17* gene in tobacco Wang Yuanyuan, *et al* (31)
Bioinformatics and subcellular localization analysis of *BnaC03g56680D* in *Brassica napus* Ruan Yuxuan, *et al* (38)

Genetics and Breeding · Tillage and Cultivation

- Impacts of organic fertilizer interactions with chitosan and brassinolide on growth and quality of tobacco upper leaves
..... Liu Junren, *et al* (44)
Effects of chemical control agents and spraying time on stalk traits and yield formation of summer maize
..... Wen Zhangrong, *et al* (50)
Comprehensive evaluation of salt tolerance of maize inbred lines during germination Zhang Jian, *et al* (56)
Identification and screening of maize inbred lines with tolerance to low nitrogen at seedling stage Wu Yangchun, *et al* (62)
Screening and identification of *GbHCT13* and *GbHCT15* transgenic cotton and analysis of their agronomic traits,
yield characters and fiber quality Ma Kehe, *et al* (69)
Influences of *Golubevia pallescens* culture solution on physiological characteristics of upper tobacco leaves
..... Tian Jing, *et al* (78)
Effects of chemical topping agent on growth of main cotton cultivars in Kuitun, Xinjiang Zhang Wen, *et al* (85)
Impacts of different foliar fertilizer spraying treatment on growth, yield and quality of cotton Ye Shujuan, *et al* (90)
Empirical model of nitrogen, organic fertilizer, planting density and number of leaves retained in cigar tobacco cultivation
and yield after drying Yu Yao, *et al* (97)
Effects of exogenous NO on physiology and Cr accumulation of tobacco under Cr stress Zhang Liushuang, *et al* (105)
Trend analysis of main traits of China's sorghum varieties from 2017 to 2022 Hou Jie, *et al* (112)

Plant Protection

- Study on correlation between rice panicle agronomic traits and resistance to rice stalk disease Yu Mina, *et al* (123)
Analysis of rice blast resistance genes and neck blast resistance of new rice lines “Yangfujing” Fan Dejia, *et al* (128)
Study on potential of ergosterol, secondary metabolite of *Trichoderma asperellum*, to control wheat scab disease
..... Song Haoyue, *et al* (133)
Screening of potential biocontrol strains of endophytic fungi from *Vaccinium dunalianum* Wu Boyu, *et al* (140)

Horticulture and Forestry

Effects of solid fermentation medium of *Trichoderma viride* and phosphorus application on growth and photosynthesis of cucumber seedlings *Xiong Rong,et al*(147)

Influences of rhizosphere pH value on biomass and root growth of banana seedlings *Wang Lixia,et al*(154)

Effects of biochar application on soil properties and growth of chrysanthemum under continuous cropping *Zhang Xiaobo,et al*(162)

Comprehensive evaluation on phenotypic traits and quality of fruit of *Actinidia arguta* from different provenances *Tao Shuangyong,et al*(168)

Response of photosynthetic and chlorophyll fluorescence characteristics of strawberry leaves to calcium spraying *Jiang Wei,et al*(174)

Husbandry and Veterinary · Aquaculture and Sericulture

Effects of salmonella infection on bursa of Fabricius in Muscovy ducks based on transcriptome sequencing *Xu Wenjuan,et al*(179)

Influences of ethanol alcohol extract of *Fagopyrum dibotrys* from central Guizhou on serum biochemical indices, immune indices, diarrhea and gut microbiota of weaned piglets *Lu Yuxi,et al*(186)

Storage and Processing · Detection

Metagenomics and correlation analysis of *Enterobacter* F8 – H fermentation of Daozhen tobacco *Huang Shen,et al*(193)

Effects of variable temperature control on aroma substance and amino acid content of upper tobacco leaves in bulk curing barn *Deng Yilong,et al*(202)

Comparative analysis of bonded aroma compounds in imported tobacco leaves *Yang Pengfei,et al*(209)

Resources and Environment

Impacts of different *Trichoderma harzianum* preparations on fungal community structure and function in tobacco – growing soil *Li Ao,et al*(215)

Influences of long – term straw returning and tillage methods on organic carbon and methane functional genes in paddy soil *Ou Xi,et al*(222)

Effects of different mulching materials on potato yield and soil bacterial community in sandy land *Wang Wen,et al*(228)

Influences of grass cultivation on soil quality, enzyme activity and stoichiometry in *Rosa roxburghii* orchard *Zhai Taiya,et al*(228)

Response of common shrub leaf functional characters to soil moisture content *Liu Yong,et al*(243)

Comparison of improvement effects of tobacco – growing soils by rotating different crops after tobacco *Cao Shenling,et al*(250)

Study on soil water stability aggregates and nutrient difference in farmland based on soil texture *Duan Chun,et al*(258)

Agricultural Economy and Management

Water pollution control,disease intensity,and breeding capitalization; taking pig industry as an example *Yang Qing,et al*(265)

Research on narrative strategy of scientist spirits in the new era based on short video; taking a series of short videos on scientists’ spirits in Jiangsu Academy of Agricultural Sciences as an example *Fan Yan,et al*(274)

Pathways to enhance development levels of Jiangsu seed industry enterprises under seed industry revitalization *Zhang Feng,et al*(279)