

# 目 次

基于 Maize6H-60K 芯片精准分型的玉米 DH 群体遗传规律研究  
 ..... 马世鹏 张云龙 段民孝 易红梅 许理文 葛建镛 范亚明  
 ..... 赵怡锐 田红丽 杨扬 霍永学 王凤格 王蕊 李莉(1)

西北旱区不同覆膜和灌溉水平下的玉米冠层氮含量垂直分布及高光谱反演  
 ..... 魏夏永 黄茜 薄丽媛 毛晓敏(13)

木薯 || 玉米间作模式对木薯产量、薯构型及土壤性质的影响  
 ..... 刘丽娟 黄洁 魏云霞 王娟(22)

田间低磷胁迫下丛枝菌根真菌对苗期小麦生长的影响  
 ..... 张佳崎 蒲子天 张瑞芳 刘宏权 张弛 王红 王鑫鑫(36)

miRNA 及其靶基因调控植物根系生长发育的研究进展  
 ..... 刘立盘 涂圣勇 杨爱红 胡森 周华 刘腾云 胡萍 余发新(47)

黄瓜 YABBYs 家族及 *CsYAB1a* 基因功能初探 ..... 应奥 程志华 张小兰 赵剑宇(60)

西番莲营养品质与功能性成分研究及应用进展 ..... 李巍 李春俭 张福锁 黄彪(79)

英国皇家园艺学会比色卡颜色特征及其在盆栽香石竹花色测定上的应用  
 ..... 滕彩玲 杨晓洪 邓超 刘艳芳 韩瑞玺(93)

代谢组学在反刍动物营养代谢应用中的研究进展 ..... 李胤豪 张清月 闫素梅(104)

驴乳与其他乳营养物质组分差异分析及其开发展望 ..... 佟满满 闫素梅(117)

AREG 对绵羊卵丘细胞葡萄糖代谢的影响  
 ..... 王兆琛 赵勇超 杜炜 张宇 张家新 安磊(130)

捻转血矛线虫阿苯达唑耐药虫株给药前后 miRNA 差异表达谱及网络调控分析  
 ..... 王腾宇 陈昕迪 石雅琴 毛晓伟 闫旭 苏娅 温海峰 刘春霞 王文龙(140)

复合菌剂对兔粪堆肥碳氮转化与损失的影响  
 ..... 张国言 董元杰 孙桂阳 于滨 徐珂(153)

人工组合复合菌系分解木质纤维素特征研究  
 ..... 杨梦雅 王云龙 安晓雅 张立强 陈迪 朴仁哲 崔宗均 赵洪颜(166)

长期秸秆还田和施用有机肥对连作棉田土壤化学性质及微生物数量的影响 .....	郭振威 李永山 陈梦妮 范巧兰 王慧(177)
基于挠性圆盘的甘薯裸苗类水平栽植运动分析与试验 .....	何宇凡 丛岳 颜丙新 祝清震 武广伟(187)
基于迁移学习和卷积神经网络的生菜鲜重估测 .....	崔庭源 杨其长 张义 徐丹 马浚诚(197)
热风管道加温下日光温室根区温度场的 CFD 模拟 .....	高振军 司长青 何芬 张彦萍 朱立保(207)
不同窖藏时间丹溪红曲酒活性成分及抗氧化评价 .....	孔芳 张南海 荆晓莹 周靖莹 赵亮 周峰(217)
区间多阶段双侧随机联合概率机会约束规划模型 ——以民勤县红崖山灌区水资源优化配置为例.....	边乐康 张成龙 郭萍 潘琦(228)
绿色发展下中国有机农业认证中心的区域格局与核心区影响力评价 .....	王志明 王玉华 刘笑含 王浩然 黄仕伟(241)
农户信任如何影响农业绿色生产技术采纳? ——基于服务外包的中介效应.....	张改清 谢秀丽 张建杰 张昆扬(252)
三产融合对农民合作社绩效的作用机制 ——来自黑龙江省 254 家农民合作社的经验.....	徐洋 郭翔宇(265)
生猪养殖户粪污治理行为决策的影响分析 ——基于大中小规模比较的视角.....	赵俊伟 尹昌斌(279)
禁养区政策下的畜禽养殖结构调整及环境效应.....	熊蓓 王瑞梅(291)
中国农业经济高质量发展的空间非均衡及收敛性.....	向云 李芷莹 陆倩(305)
转型与发展:构建新时代农科高等教育体系的路径探讨 .....	曲瑛德 李珊(317)

## CONTENTS

- Study on genetic rule of maize doubled haploid population based on Maize6H-60K accurate-genotyping  
..... MA Shipeng, ZHANG Yunlong, DUAN Minxiao, YI Hongmei,  
XU Liwen, GE Jianrong, FAN Yaming, ZHAO Yikun, TIAN Hongli,  
YANG Yang, HUO Yongxue, WANG Fengge, WANG Rui, LI Li (1)
- Vertical distribution of nitrogen content in spring maize leaves and its hyperspectral  
inversion under different film mulching and irrigation levels in northwest arid region  
..... WEI Xiaoyong, HUANG Xi, BO Liyuan, MAO Xiaomin (13)
- Effect of different cassava and maize intercropping models on yield, storage root  
configuration and soil physicochemical properties  
..... LIU Lijuan, HUANG Jie, WEI Yunxia, WANG Juan (22)
- Effects of arbuscular mycorrhizal fungi on the growth of wheat seedlings under low  
phosphorus stress in field condition ..... ZHANG Jiaqi, PU Zitian, ZHANG Ruifang,  
LIU Hongquan, ZHANG Chi, WANG Hong, WANG Xinxin (36)
- Research progress of miRNA and its target genes regulating plant root growth and development  
..... LIU Lipan, TU Shengyong, YANG Aihong, HU Miao,  
ZHOU Hua, LIU Tengyun, HU Ping, YU Faxin (47)
- Preliminary study on the function of YABBYs family and *CsYAB1a* gene in cucumber  
(*Cucumis sativus* L.) ..... YING Ao, CHENG Zhihua, ZHANG Xiaolan, ZHAO Jianyu (60)
- Research progress on the nutritional quality and functional substances of passionflower and  
its application ..... LI Wei, LI Chunjian, ZHANG Fusuo, HUANG Biao (79)
- Research on color traits of Royal Horticultural Society Color Chart and its  
application in flower color testing of potted carnation  
..... TENG Cailing, YANG Xiaohong, DENG Chao, LIU Yanfang, HAN Ruixi (93)
- Advance in the application of metabolomics to nutrition research of ruminant livestock  
..... LI Yin hao, ZHANG Qingyue, YAN Sumei (104)
- Differences analysis of the nutritional components between donkey milk and other milk  
and its development prospect ..... TONG Manman, YAN Sumei (117)
- Effect of AREG on the glucose metabolism of sheep cumulus cells  
..... WANG Zhaochen, ZHAO Yongchao, DU Wei, ZHANG Yu, ZHANG Ji axin, AN Lei (130)
- Analysis on the differential miRNA expression profiles and regulatory networks of  
albendazole-resistant strains of *Haemonchus contortus* before and after administration  
..... WANG Tengyu, CHEN Xindi, SHI Yaqin, MAO Xiaowei, YAN Xu,  
SU Ya, WEN Hai feng, LIU Chunxia, WANG Wenlong (140)
- Effects of compound bacterial inoculant on the conversion and loss of carbon and  
nitrogen during rabbit manure composting  
..... ZHANG Guoyan, DONG Yuanjie, SUN Guiyang, YU Bin, XU Ke (153)

- Characterization of lignocellulose decomposition by artificially combined composite strains  
 ..... *YANG Mengya, WANG Yunlong, AN Xiaoya, ZHANG Liqiang, CHEN Di, PIAO Renzhe, CUI Zongjun, ZHAO Hongyan* (166)
- Effects of long-term straw returning and organic fertilizer application on the soil chemical properties and microbial quantity of continuous cropping cotton field  
 ..... *GUO Zhenwei, LI Yongshan, CHEN Mengni, FAN Qiaolan, WANG Hui* (177)
- Kinematics analysis and experiment of horizontal planting of sweet potato naked seedlings based on flexible disc  
 ..... *HE Yufan, CONG Yue, YAN Bingxin, ZHU Qingzhen, WU Guangwei* (187)
- Lettuce fresh weight estimation based on transfer learning and convolutional neural network  
 ..... *CUI Tingyuan, YANG Qichang, ZHANG Yi, XU Dan, MA Juncheng* (197)
- CFD simulation of temperature field in root zone of solar greenhouse under the heating by hot air duct  
 ..... *GAO Zhenjun, SI Changqing, HE Fen, ZHANG Yanping, ZHU Libao* (207)
- Assessment of active components and antioxidant activity of different storage times of Danxi Hongqu rice wines ..... *KONG Fang, ZHANG Nanhai, JING Xiaoxuan, ZHOU Jingxuan, ZHAO Liang, ZHOU Feng* (217)
- Interval multi-stage double-sided stochastic joint-probabilistic chance-constrained programming: A case study of the optimal allocation of water resources in Hongyashan irrigation area in Minqin County ..... *BIAN Lekang, ZHANG Chenglong, GUO Ping, PAN Qi* (228)
- Regional pattern and influence evaluation of the core area of China Organic Agriculture Certification Center under the green development  
 ..... *WANG Zhiming, WANG Yuhua, LIU Xiaohan, WANG Haoran, HUANG Shiwei* (241)
- How does farmers' trust affect the adoption of green production technology in agriculture: Based on the intermediary effect of service outsourcing  
 ..... *ZHANG Gaiqing, XIE Xiuli, ZHANG Jianjie, ZHANG Kunyang* (252)
- Mechanism of three-industry integration on the performance of farmers' cooperatives: Experience from 254 farmers' cooperatives in Heilongjiang Province  
 ..... *XU Yang, GUO Xiangyu* (265)
- Analysis on the influence of decision-making of pig farmers' fecal pollution control behavior: From the perspective of large, medium and small scale comparison  
 ..... *ZHAO Junwei, YIN Changbin* (279)
- Structural adjustment and environmental effect of livestock and poultry breeding under policy of prohibiting livestock and poultry production ..... *XIONG Bei, WANG Ruimei* (291)
- Spatial disequilibrium and convergence of high quality development of agricultural economy in China ..... *XIANG Yun, LI Zhixuan, LU Qian* (305)
- Transformation and development: The path of constructing the agricultural higher education system in the new era ..... *QU Yingde, LI Shan* (317)