

目 次

畜禽分子遗传育种专栏

丝羽乌骨鸡 *SLC38A11* 基因分型及其与皮肤乌色度关联分析

.....屠云洁 章明 巨晓军 姬改革 刘一帆 单艳菊
邹剑敏 束婧婷 赵伟东 郑国庆(1)

清远麻鸡 miR-142-3p 分析及其关键靶基因的筛选

.....朱师良 余春林 邱莫寒 张增荣 熊霞 胡陈明 杨礼
彭涵 陈家磊 宋小燕 夏波 杨朝武(12)

gga- miR-17-5p 在鸡骨骼肌和脂肪沉积相关组织及细胞中的表达差异及其关键靶基因的筛选

.....杨苗苗 向海 李瑞瑞 赵振华 王钱保 黄正洋
李春苗 梁忠 吴兆林 黄华云(23)

gga-miR-130b-3p 对鸡 MDCC-MSB1 细胞中肿瘤相关基因表达的影响

.....李家乐 金涛 朱国志 陈沈峻 杨林 刘心雨 李升和 赵春芳(34)

转录组测序筛选萨湖杂交羊肌肉和生长性能提升的关键基因

.....楼梦雨 张思欢 郑琪 朱翠云 凌英会(47)

我国葡萄土壤氮素丰缺指标和适宜施氮量初步研究

.....孙洪仁 朱凯迪 王彦 张吉萍 王尚波 王志栋(58)

冬季保温被覆盖对贺兰山东麓葡萄植株越冬生理代谢的影响

.....张立霞 朱雯莎 徐国前 张亮 刘国安 李茹一
王志磊 杨帆 王江林 程春颖 薛婷婷(68)

茉莉酸甲酯对‘小白玫瑰’和‘玫瑰香’葡萄酒香气的影响

.....高伟 崔芳铭 刘敏(79)

不同钾肥水平对设施桃品质、养分积累及产量的影响

.....王雨 李永红 李杰 田启航 刘国俭 陈湖 常瑞丰 王召元(89)

肉桂精油对苹果腐烂病菌和番茄灰霉病菌抑制作用及机理的初步研究

.....孙泽鑫 郎丰亭 于川 刘博 郝智慧(103)

我国柑橘类农药登记现状及其绿色食品生产适用性分析

.....刘莲莲 张究 严颖 杨斌华 李学贤(114)

西北地区玉米亲本制种种子综合活力的评价

.....袁志鹏 盛石鹏 樊廷录 韩登旭 刘兴斌 罗致春
闫治斌 袁静 吕小瑞 王建华 李莉(129)

错株种植对密植夏玉米碳氮分配的影响	张美微 穆蔚林 郭涵潇 李川 张盼盼 何佳雯 牛军 乔江方(139)
吉林省大豆品种(系)遗传多样性分析	吕叶 董青松 陈亮 侯云龙 刘德泉 王跃强 张君 王新风 张玲 于维 邱红梅(148)
日光温室骨架合理曲线的一种数值化表达方法	齐飞 何芬 赵云云 侯永 丁小明(161)
基于TRNSYS的装配式异质复合墙体日光温室建筑参数优化	李永 王文静 阳春 郝丽娟 康利改 李沫 李梦迪(170)
河北低平原适水粮饲模式构建及综合效益评价	杨晓琳 王语萌 石恒煜 李庆祥 王显国 杜太生(181)
高质量发展背景下高原山区特色农业多功能演变与优化分区——以云南省为例	洪秋辰 李千梦 冯晓文 戴瑶 郝晋珉 艾东(193)
乡村重构背景下建瓯市宅基地变化仿真与模拟	谢孟 范胜龙 李亚博(209)
乡镇尺度下北京市生态涵养区农业绿色发展评价及限制因素分析	梁丽娜 王洪佳 王学霞 蔡连凤 淮贺举(222)
绿色食品认证能否提升家庭农场的绿色全要素生产率?	汪婧宇 张园圆 徐彩瑶 孔凡斌(232)
稻虾生态种养技术会带来粮食数量安全问题吗?	田卓亚 杨彩艳 汪熙琮 雷泽奎 齐振宏(246)
央地产业政策协同对农业企业专用性投资的影响	李子婕 何玉成(259)
农业保险能否保障农民种粮收益?	郭凤茹 任金政(272)
碳交易视域下养殖户畜禽粪污资源化利用受偿意愿与影响因素——基于河北省7市694户养猪户调研数据	刘振涛 周勋章 刘璞 邵红岭 路剑(284)
数字普惠金融与农业产业链韧性耦合协调及影响因素	周玉玺 程创业(297)
农业数字化对粮食生产安全的影响机理与效应	刘威 郑雪丽 马恒运(307)

CONTENTS

Molecular Genetic Breeding of Livestock and Poultry

Genotyping of *SLC38A11* gene in Silky fowls and its association with skin blackness

.....TU Yunjie, ZHANG Ming, JU Xiaojun, JI Gaige, LIU Yifan, SHAN Yanju,
ZOU Jianmin, SHU Jingting, ZHAO Weidong, ZHENG Guoqing(1)

MiR-142-3p analysis of Qingyuan partridge chickens and screening of key target genes

.....ZHU Shiliang, YU Chunlin, QIU Mohan, ZHANG Zengrong, XONG Xia, HU Chenming,
YANG Li, PENG Han, CHEN Jialei, SONG Xiaoyan, XIA Bo, YANG Chaowu(12)

Differential expression of gga- miR-17-5p in chicken adipose and skeletal muscle tissues and cells and screening of its key target gene

...YANG Miaomiao, XIANG Hai, LI Ruirui, ZHAO Zhenhua, WANG Qianbao, HUANG Zhengyang,
LI Chunmiao, LIANG Zhong, WU Zhaolin, HUANG Huayun(23)

Effects of gga-miR-130b-3p on the expression of tumour-related genes in chicken MDCC-MSB1 cells

.....LI Jiale, JIN Tao, ZHU Guozhi, CHEN Shenjun, YANG Lin,
LIU Xinyu, LI Shenghe, ZHAO Chunfang(34)

Transcriptome sequencing screens key genes for muscle and growth performance enhancement in Sahu crossbred sheep

.....LOU Mengyu, ZHANG Sihuan, ZHENG Qi, ZHU Cuiyun, LING Yinghui(47)

Preliminary study on abundance-deficiency index of soil nitrogen and appropriate N application rates for grapes in China

.....SUN Hongren, ZHU Kaidi, WANG Yan, ZHANG Jiping,
WANG Shangbo, WANG Zhidong(58)

Effects of winter thermal insulation cover on the overwintering physiological metabolism of grapevines in the eastern foothills of Helan Mountain

...ZHANG Lixia, ZHU Wensha, XU Guoqian, ZHANG Liang, LIU Guoan, LI Ruyi, WANG Zhilei,
YANG Fan, WANG Jianglin, CHENG Chunying, XUE Tingting(68)

Effects of methyl jasmonate on the aroma of 'Muscat Blanc' and 'Muscat Hamburg' wines

.....GAO Wei, CUI Fangming, LIU Min(79)

Effects of different potassium fertilizer levels on the quality, nutrient accumulation and yield of protected peach

.....WANG Yu, LI Yonghong, LI Jie, TIAN Qihang, LIU Guojian,
CHEN Hu, CHANG Ruifeng, WANG Zhaoyuan(89)

Inhibitory effect of *Cinnamon* essential oil on *Valsa mali* and *Botrytis cinerea* and the preliminary study of its mechanism

.....SUN Zexin, LANG Fengting, YU Chuan, LIU Bo, HAO Zhihui(103)

Current status of citrus pesticide registration and its applicability analysis in green food production in China

.....LIU Lianlian, ZHANG Xian, YAN Ying, YANG Binhua, LI Xuexian(114)

Evaluation of the comprehensive seed vigor of maize parental inbred lines in Northwest China

.....YUAN Zhipeng, SHENG Shipeng, FAN Tinglu, HAN Dengxu, LIU Xingbin, LUO Zhichun,
YAN Zhibin, YUAN Jing, LV Xiaorui, WANG Jianhua, LI Li(129)

- Effects of staggered planting on carbon and nitrogen allocation of summer maize with close planting
ZHANG Meiwei, MU Weilin, GUO Hanxiao, LI Chuan, ZHANG Panpan,
 HE Jiawen, NIU Jun, QIAO Jiangfang(139)
- Genetic diversity analysis of the soybean varieties/lines in Jilin Province
LV Ye, DONG Qingsong, CHEN Liang, HOU Yunlong, LIU Dequan, WANG Yueqiang,
 ZHANG Jun, WANG Xinfeng, ZHANG Ling, YU Wei, QIU Hongmei(148)
- A numerical expression method of solar greenhouse skeleton reasonable curve
QI Fei, HE Fen, ZHAO Yunyun, HOU Yong, DING Xiaoming(161)
- Building parameter optimization of solar greenhouse with assembled heterogeneous composite wall based on TRNSYS
LI Yong, WANG Wenjing, YANG Chun, QIE Lijuan, KANG Ligai, LI Mo, LI Mengdi(170)
- Different water saving grain-forage rotations and comprehensive benefit assessment in the low plains of Hebei Province
YANG Xiaolin, WANG Yumeng, SHI Hengyu, LI Qingxiang,
 WANG Xianguo, DU Taisheng(181)
- Multifunctional evolution and optimization zoning of characteristic agriculture in plateau and mountainous areas under the background of high-quality development: A case study of Yunnan Province
HONG Qiuchen, LI Qianmeng, FENG Xiaowen, DAI Yao, HAO Jinmin, AI Dong(193)
- Simulation and modeling of changes in residential base in Jian'ou City under the background of rural reconstruction
XIE Meng, FAN Shenglong, LI Yabo(209)
- Evaluation and restriction factors of agricultural green development in Beijing ecological conservation area at the township scale
LIANG Lina, WANG Hongjia, WANG Xuexia, CAI Liangfeng, HUAI Heju(222)
- Can green food certification improve green total factor productivity of family farms?
WANG Jingyu, ZHANG Yuanyuan, XU Caiyao, KONG Fanbin(232)
- Will the rice and crayfish co-culture techniques bring about food security issues?
TIAN Zhuoya, YANG Caiyan, WANG Xicong, LEI Zekui, QI Zhenhong(246)
- Research on the impact of central and local industrial policy synergy on agricultural enterprise specific investment
LI Zijie, HE Yucheng(259)
- Can agricultural insurance guarantee farmer's income from grain production?
GUO Fengru, REN Jinzheng(272)
- Farmers' willingness to receive compensation for the utilization of livestock and poultry manure resources from the perspective of carbon trading and its influencing factors: Based on a survey data of 694 pig farmers in 7 cities of Hebei Province
LIU Zhentao, ZHOU Xunzhang, LIU Pu, SHAO Hongling, LU Jian(284)
- Coupling coordination and influencing factors of digital inclusive finance and resilience of agricultural industry chain
ZHOU Yuxi, CHENG Chuangye(297)
- Influence mechanism and effect of agricultural digitization on food production security
LIU Wei, ZHENG Xueli, MA Hengyun(307)