

西南农业学报

西南农业学报

SOUTHWEST CHINA JOURNAL OF AGRICULTURAL SCIENCES

中文核心期刊 | 中国科技核心期刊 | 中国农林核心期刊 | RCCSE中国核心学术期刊 | 中国科学引文数据库 (CSCD) 来源期刊

二零二一年 第三十四卷 第七期

2021

第34卷 第7期

Vol.34 No.7

ISSN 1001-4829



ISSN 1001 - 4829

CN 51 - 1213/S
CODEN XNXUEF

《西南农业学报》编辑委员会

2021年7月

目 次

作物遗传育种·种质资源

1367 早熟新型甘蓝型油菜产量及农艺性状的综合评价 ... 宋丰萍,程嘉庆,刘振兴,程志强,程田田,代 欢,宁友维,蒙祖庆
1375 盐碱胁迫下青稞全转录组分析..... 扎 桑,王玉林,原红军,杨春葆,徐齐君
1386 粒用菜豆种质资源表型遗传多样性分析及综合性评价 葛平珍,王昭礼,余 莉,何友勋,张时龙,赵 龙

生理生化·植物保护

1395 2 种有机酸钾盐卷烟纸助剂对卷烟热解性能的影响 段瑞海,李红娟,冯俊杰,李 雕,丁 发,周 涛
1400 内源激素及氨基酸对木薯花芽分化的响应
..... 韦丽君,俞奔驰,宋恩亮,檀小辉,郑 华,周时艺,文 峰,卢赛清,付海天
1407 砧木年龄对锥栗嫁接苗生长及光合特性的影响 王 璐,邢 刚,陈雨晴,邹 锋,袁德义,熊 欢
1413 香蕉磷脂酶 D 的纯化与生化特性分析 何雪梅,唐雅园,孙 健,李 丽,向 昱,杨兆杏,赵承刚,韦 珍,唐 杰
1419 不同功率及温度条件下微波干燥法对辣木叶片硒含量及营养品质的影响
..... 方良材,刘梦姣,吴钊龙,黄卫萍,黄春秋,黄 浩
1425 Dehydroheliobupphthalmin 与 Lapatinib 联合应用靶向抑制 NCI-H441 细胞的研究
..... 罗 锐,赵 月,爨向丹,杨星莹,朱巍巍,黄艳苹,王宣军,盛 军
1433 稻瘟病菌 MSP1 的表达、纯化及生物信息学分析
..... 赵秀平,李国瑞,王 双,闫星伊,段 强,张 帅,风 兰,韩雯毓,孙佳欣,陈永胜
1439 基于高通量测序的草莓白粉病病原菌分析
..... 张振荣,田云霞,董琼娥,谭海燕,张丽芳,冯德党,赖泳红,杨俊誉,苏代发,崔晓龙,童江云
1444 菌根真菌与不同苗龄滇重楼幼苗的共生效应..... 许凌峰,黄艳萍,郭冬琴,杨 敏,张 杰,赵晶晶,周 浓
1451 湖南桃江病圃稻瘟病菌生理小种鉴定及其毒性分析
..... 李 杰,李小娟,肖友伦,任佐华,邓力喜,夏新格,朱 艳,刘二明
1458 肿节风炭疽病菌拮抗放线菌的筛选与鉴定..... 宋利沙,蒋 妮,张占江,蓝祖栽,白隆华
1465 火龙果煤烟病发生动态及防治药剂筛选..... 苏桂花,欧善生,覃连红,崔忠吉,陈 宇

土壤肥料

1472 枣专用微生物菌剂对于旱区骏枣园土壤养分及土壤酶活性的影响
..... 宋 健,刘伟峰,魏喜喜,禄彩丽,张 梅,李建贵,张 磊
1480 工厂化双孢蘑菇催蕾期覆土层细菌群落变化研究..... 陆 娜,宋吉玲,周小华,沈汉斌,袁卫东

1486 白水河国家级自然保护区柳杉(*Cryptomeria fortunei*)人工林大型土壤动物群落特征
..... 王 辉,陈 旭,吴鹏飞,周 英,魏 雪

1497 肥效微生物菌剂对魔芋及其栽培土壤的影响 段曾平,周晓罡,汉瑞林,姚春馨,乔 琦,王奕文,曾黎琼,杨自光

1503 耕作深度及秸秆还田对耕层土壤理化性状的影响..... 吕凯飞,周 锋,安瞳昕,杨友琼,王 武,程 易,吴伯志

1510 秸秆还田对梓潼江流域土壤肥力及粮食生产的影响 郑雅婷,王学春,胡 瑶,杨国涛,赵长坤,胡运高

园艺·农业生态环境·农业气象

1515 野生猕猴桃优异资源果实形态及营养成分分析 王连润,陶 磅,陈 霞,李坤明,丁仁展,王卫清,吴定财,沙毓沧

1521 30 种观叶秋海棠花粉活力检验方法筛选及活力测定
..... 杜文文,段 青,杨 楠,蔡晶晶,林培胜,马璐琳,王祥宁,贾文杰,崔光芬

1528 秸秆还田对水稻镉吸收影响的整合分析..... 聂新星,冯敬云,段小丽,张敏敏,刘 波,张 斌,杨 利

1534 间伐和不同引种植物对刺槐林下群落的影响 伏成秀,杨济达,张 庆,曾 贞,董云峰,史君怡

1540 砂生槐灌丛不同海拔地表节肢动物多样性与砂生槐种子危害的关系 陈韵秋,孙 涛,臧建成,洪大伟

1548 干热河谷石漠化区顶坛花椒叶片蒸腾速率及其与环境因子的关系..... 钟欣平,喻阳华,侯堂春

1556 基于梯度提升决策树多特征结合的茶叶产量预测..... 丁 鹏,徐爱俊,周素茵

畜牧

1564 中甸犏牛的产犊季节、泌乳期分布及产奶量变化规律
..... 和占星,黄梅芬,赵 刚,杨 凯,高月娥,亏开兴,张继才,赵婷婷,和映光,王安奎

1570 瘦素对西门塔尔牛屡配不孕的影响及与生殖激素相关性分析
..... 曲 苗,孙亚伟,闫向民,李红波,姚 刚,张 杨,李 娜

1575 夷陵山羊微卫星标记杂合度与生长性状的回归关系..... 邓云霏,付玉蓉,沈洪学,刘桂琼,朱德江,张 敏,姜勋平

Contents

CROP GENETICS & BREEDING · GERMPLASM RESOURCES

1367 Comprehensive Evaluation of Yield and Agronomic Traits of Early Maturing New Type *Brassica napus* L.
..... SONG Feng-ping, CHENG Jia-qing, LIU Zhen-xing, CHENG Zhi-qiang,
CHENG Tian-tian, DAI Huan, NING You-wei, MENG Zu-qing

1375 Transcriptome Analysis of Tibetan Hulless Barley Under Salt-alkali Stress
..... ZHA Sang, WANG Yu-lin, YUAN Hong-jun, YANG Chun-bao, XU Qi-jun

1386 Phenotypic Genetic Diversity Analysis and Comprehensive Evaluation of Dry Bean Germplasm
..... GE Ping-zhen, WANG Zhao-li, YU Li, HE You-xun, ZHANG Shi-long, ZHAO Long

PHYSIOLOGY & BIOCHEMISTRY · PLANT PROTECTION

1395 Effect of Two Kinds of Organic Acid Potassium Salt Cigarette Paper Additives on Pyrolysis Performance of Cigarette
..... DUAN Rui-hai, LI Hong-juan, FENG Jun-jie, LI Diao, DING Fa, ZHOU Tao

1400 Responses of Endogenous Hormones and Amino Acids to Flower Bud Differentiation of Cassava
... WEI Li-jun, YU Ben-chi, SONG En-liang, TAN Xiao-hui, ZHENG Hua, ZHOU Shi-yi, WEN Feng, LU Sai-qing, FU Hai-tian

1407 Effects of Rootstocks Ages on Growth and Photosynthetic Characteristics of *Castanea henryi*
..... WANG Lu, XING Gang, CHEN Yu-qing, ZOU Feng, YUAN De-yi, XIONG Huan

1413 Isolation, Purification and Biochemical Characterization of Banana Phospholipase D
..... HE Xue-mei, TANG Ya-yuan, SUN Jian, LI Li, XIANG Yu, YANG Zhao-xing, ZHAO Cheng-gang, WEI Zhen, TANG Jie

1419 Effects of Microwave Drying at Different Power and Temperature on Selenium Content and Nutritional Quality of *Moringa oleifera* Leaves
..... FANG Liang-cai, LIU Meng-jiao, WU Zhao-long, HUANG Wei-ping, HUANG Chun-qiu, HUANG Hao

1425 Study on Targeted Inhibition of NCI-H441 Cells by Dehydroheliobuphthalmin Combined with Lapatinib
LUO Rui, ZHAO Yue, CUAN Xiang-dan, YANG Xing-ying, ZHU Wei-wei, HUANG Yan-ping, WANG Xuan-jun, SHENG Jun

1433 Expression, Purification and Bioinformatics Analysis of *Magnaporthe oryzae* MSP1
..... ZHAO Xiu-ping, LI Guo-rui, WANG Shuang, YAN Xing-yi, DUAN Qiang,
ZHANG Shuai, FENG Lan, HAN Wen-yu, SUN Jia-xin, CHEN Yong-sheng

1439 Analysis of Pathogen of Strawberry Powdery Mildew Based on High-throughput Sequencing
..... ZHANG Zhen-rong, TIAN Yun-xia, DONG Qiong-e, TAN Hai-yan, ZHANG Li-fang, FENG De-dang,
LAI Yong-hong, YANG Jun-yu, SU Dai-fa, CUI Xiao-long, TONG Jiang-yun

1444 Symbiotic Effects of Mycorrhizal Fungi and Different Seedling Ages of *Paris polyphylla* var. *yunnanensis*
..... XU Ling-feng, HUANG Yan-ping, GUO Dong-qin, YANG Min, ZHANG Jie, ZHAO Jing-jing, ZHOU Nong

1451 Identification of Physiological Races and Virulence Analysis of *Magnaporthe oryzae* from Rice Blast Nursery in Taojiang of Hunan Province
..... LI Jie, LI Xiao-juan, XIAO You-lun, REN Zuo-hua, DENG li-xi, XIA Xin-ge, ZHU Yan, LIU Er-ming

1458 Screening and Identification of Antifungal Actinomycetes to *Colletotrichum dematium* of *Sarcandra glabra*
..... SONG Li-sha, JIANG Ni, ZHANG Zhan-jiang, LAN Zu-zai, BAI Long-hua

1465 Occurrence Dynamics and Control Agent Screening of Soot Disease of Pitaya
..... SU Gui-hua, OU Shan-sheng, QIN Lian-hong, CUI Zhong-ji, CHEN Yu

SOIL FERTILIZER

1472 Effects of Special Jujube Microbial Agents on Soil Nutrients and Soil Enzyme Activities of Jun Jujube Orchard in Arid Area
..... SONG Jian,LIU Wei-feng,WEI Xi-xi,LU Cai-li,ZHANG Mei LI Jian-gui,ZHANG Lei

1480 Changes of Bacterial Community in Covering Soil Layer of Industrial *Agaricus bisporus* During Bud Induction
..... LU Na,SONG Ji-ling,ZHOU Xiao-hua,SHEN Han-bin,YUAN Wei-dong

1486 Characteristics of Soil Macrofauna Community in *Cryptomeria fortunei* Plantations in Baishuihe Nature Reserve
..... WANG Hui,CHEN Xu,WU Peng-fei,ZHOU Ying,WEI Xue

1497 Effect of Microbial Inoculants on *Amorphophallus konjac* and Its Cultivated Soil
..... DUAN Zeng-ping,ZHOU Xiao-gang,HAN Rui-lin,YAO Chun-xin,
QIAO Qi,WANG Yi-wen,ZENG Li-qiong,YANG Zi-guang

1503 Effects of Deep Ploughing and Straw Returning on Physical and Chemical Properties of Cultivated Soil
..... LYU Kai-fei,ZHOU Feng,AN Tong-xin,YANG You-qiong,WANG Wu,CHENG Yi,WU Bo-zhi

1510 Effects of Straw Returning on Soil Fertility and Grain Production in Zitong River Basin
..... ZHENG Ya-ting,WANG Xue-chun,HU Yao,YANG Guo-tao,ZHAO Chang-kun,HU Yun-gao

HORTICULTURE · AGRICULTURAL ECO-ENVIRONMENT · AGRO-METEOROLOGY

1515 Analysis on Fruit Morphology and Nutritional Composition of Excellent Germplasm Resources of Wild Kiwifruit
WANG Lian-run,TAO-Pang,CHEN-Xia,LI Kun-ming,DING Ren-zhan,WANG Wei-qing,WU Ding-cai,SHA Yu-cang

1521 Screening of Test Methods and Determination of Pollen Viability of 30 Varieties of Foliage *Begonia*
..... DU Wen-wen,DUAN Qing,YANG Nan,CAI Jing-jing,LIN Pei-sheng,
MA Lu-lin,WANG Xiang-ning,JIA Wen-jie,CUI Guang-fen

1528 Meta-analysis of Effects of Straw Return on Rice Cd Uptake
..... NIE Xin-xing,FENG Jing-yun,DUAN Xiao-li,ZHANG Min-min,LIU Bo,ZHANG Bin,YANG Li

1534 Effect of Inter-lumbering and Introduction Under Forest on Community of *Acacia pseudoacacia*
..... FU Cheng-xiu,YANG Ji-da,ZHANG Qing,ZENG Zhen,DONG Yun-feng,SHI Jun-yi

1540 Relationship Between Diversity of Surface Arthropods at Different Altitudes and Seed Damage of *Sophora moorcroftiana* Shrubs
..... CHEN Yun-qiu,SUN Tao,ZANG Jian-cheng,HONG Da-wei

1548 Correlation Between Leaf Transpiration Rate of *Zanthoxylum planispinum* var. *Dingtanensis* and Environmental
Factors in Dry-hot Valley Rocky Desertification Region ZHONG Xin-ping,YU Yang-hua,HOU Tang-chun

1556 Prediction of Tea Yield Based on Gradient Boosting Decision Tree with Combining Multiple Features
..... DING Peng,XU Ai-jun,ZHOU Su-yin

ANIMAL SCIENCE

1564 Study on Calving Season,Lactation Length Distribution and Patterns of Milk Yield of Zhongdian Cattle-yak
..... HE Zhan-xing,HUANG Mei-fen,ZHAO Gang,YANG kai,GAO Yue-e,QU Kai-xing,
ZHANG Ji-cai,ZHAO Ting-ting,HE Ying-guang,WANG An-kui

1570 Effect of Leptin on Repeated Infertility in Simmental Cattle and Its Correlation with Reproductive Hormones
..... QU Miao,SUN Ya-wei,YAN Xiang-min,LI Hong-bo,YAO Gang,ZHANG Yang,LI Na

1575 Regressions Between Heterozygosity at Microsatellite Loci and Growth Traits in Yiling Goat
..... DENG Yun-fei,FU Yu-rong,SHEN Hong-xue,LIU Gui-qiong,ZHU De-jiang,ZHANG Min,JIANG Xun-ping

《西南农业学报》编辑委员会

主 任 (Director of the editorial board) : 牟锦毅

副主任 (Vice directors of the editorial board, 按姓氏笔画排序) :

邓国富 刘剑飞 赵德刚 黄 平

主 编 (Editor-in-chief) : 牟锦毅

副主编 (Associate editors-in-chief, 按姓氏笔画排序) :

王家银 冯 卫 林正雨 (常务)

欧 毅 覃泽林

编 委 (Members of the editorial board, 按姓氏笔画排序) :

王 云	王文峰	王勇德	王家银	巴桑旺堆	邓国富	冯 卫	朱永清	任光俊	向青云
刘 旭	刘永红	刘作华	刘剑飞	刘海平	江国良	汤永禄	孙 健	牟锦毅	杜 军
杜才富	李成云	杨武云	杨荣仲	何 鹏	何永坤	何庆才	何新华	张 勇	张 鸿
张仲凯	张述宽	陈泽辉	陈晓汉	林正雨	欧 毅	罗廷荣	金 涛	郑家奎	参木友
赵泽英	赵德刚	胡凤益	贺德华	黄 平	梁国鲁	谌爱东	隋启君	蒋开锋	覃泽林
番兴明	曾兴权	曾秀丽	曾卓华	雷 波					

西南农业学报 (月刊)

Xinan Nongye Xuebao

2021年7月28日出版

2021年第34卷第7期

Southwest China Journal of

Agricultural Sciences (Monthly)

Vol.34 No.7 2021

Published on July 28, 2021

主 管: 四川省农业农村厅

主 办: 四川、云南、贵州、广西、西藏及
重庆市 (区、市) 农科院

编辑出版: 《西南农业学报》编辑部

地 址: 成都市锦江区净居寺路20号附101号

邮 编: 610066

电 话: 028-84504192

邮 箱: Jxuebao@sina.com

投稿网址: www.xnnyxb.com

印 刷: 成都市锦慧彩印有限公司

国内发行: 四川省报刊发行局

国外发行: 中国国际图书贸易集团有限公司
(北京399信箱,100044)

ISSN 1001-4829 CN 51-1213/S CODEN XNXUEF

Supervised by Sichuan Provincial Department of Agriculture and Rural Affairs

Sponsored by Sichuan, Yunnan, Guizhou, Guangxi, Tibet and Chongqing Academies of Agricultural Sciences

Edited and Published by Editorial Department of Southwest China Journal of Agricultural Sciences

Add: 20-101, Jingjusi Road, Jinjiang District, Chengdu, Sichuan 610066, China

Tel: 028-84504192

E-mail: Jxuebao@sina.com

Website: www.xnnyxb.com

Printed by Chengdu Jinhui Color Printing Co., Ltd.

Distributed by Sichuan Provincial Bureau of Newspapers and Periodicals

Foreign: China International Book Trading Corporation
(P. O. Box 399, Beijing 100044, China)

国内邮发代号: 62-152

国外发行代号: M2912

国内订价: 25.00元