



ISSN 1001-4705

CN 52-1066/S

种子

SEED

第二届国家期刊奖百种重点期刊
全国中文核心期刊
中国科技核心期刊
中国农业核心期刊
中国期刊方阵双效期刊
全国优秀科技期刊
贵州省优秀期刊奖期刊

3
2022
3月 第41卷

主办：贵州农业职业学院 贵州省种子管理站

种 子

(ZHONG ZI)

第 41 卷 第 3 期 2022 年 3 月

月刊(1981 年创刊 总第 351 期)

目 次

研究报告

EMS 处理对尾叶紫薇种子萌发的影响及半致死剂量的研究

续 言, 王景芸, 吴宜静, 张一鸣, 朱梓宁, 蔡 明, 潘会堂, 张启翔 (1)
本氏烟草 *NbRS* 克隆及响应镉胁迫中的功能初步分析

娄冰冰, 赵一博, 辛翠花, 卞晓燕, 郭江波 (6)

26 份玉米材料灰斑病抗性鉴定及分子标记检测

周雪琴, 袁艳丽, 任 洪, 王 伟, 柏光晓 (12)
不同贮藏条件对蒙古黄芪种子生理生化及活力的影响

鲁海坤, 姜业成, 隋 昕, 于芸泽, 于 营, 郭 靖 (18)

不同年份叶底珠种子营养物质含量、保护酶活性与种子活力研究

徐宁伟, 姚 楠, 沈江洁, 李婧实, 路 斌, 仲心雨, 徐兴友, 路丙社 (25)

FaGST 基因改良菊苣新种质创制

陈 锡, 陈 莹, 刘晓霞, 刘重阳, 吴 溪, 姚文琴, 赵德刚, 王小利 (32)
混合盐碱胁迫对 3 种稗属牧草种子萌发的影响

兰 艳, 朱 林, 王甜甜, 荆庆芳, 张 杨, 赵学琳 (37)
怀玉山三叶青烟草病毒增殖蛋白 2 A 基因克隆和功能分析

尹明华, 曾淑琴, 曾 荑, 张彩霞, 张慧博, 张丽佳 (45)
茶树 RAV 基因家族鉴定与分析

田时雨, 张蓓林, 郑 吟, 吕立堂 (52)

问题探讨

PEG-6000 模拟干旱胁迫对青稞种子萌发的影响

彭玉琳, 夏天意, 邹云阳, 王 浩, 白玛德吉, 昌 西 (58)
C 815 S 衍生水稻两用核不育系食味品质性状配合力分析

邓秋雨, 肖 丰, 刘玮琦, 曾 盖, 罗丽华, 肖应辉 (63)
不同成熟度玉米种子生理特性与种子活力的关系分析

王伟杰, 陈保国, 张远航, 马 平, 冯万军 (68)

外源赤霉素对盐胁迫下番茄种子萌发和幼苗生长的影响	
戴陶宇,王前程,张迎迎,朱为民,张辉,万延慧	(74)
不同贮藏条件下7种青冈属种子含水量及生活力变化研究	
史喜兵,焦雪辉,申潇潇,梁冠,周小娟,刘杰	(81)
不同预处理对柴达木盆地高寒湿地小果白刺种子萌发的影响	
胡娟,张洁,盛洲,周宸宇,拉本	(87)
贵州特有苍背木莲种实性状与苗木生长特征	
李茂,李鹤,申敬民,杨成华	(92)
品种选育研究	
2个玉米核心种质的改良利用及综合分析与评价	
刘守渠,段运平,郭峰,任小燕,石红卫,王怡	(99)
国审小麦新品种银春10号产量及其构成因素分析	
魏孔梅,杨继忠,俞华林,师学豪	(104)
国审小麦新品种驻麦305的产量、品质及抗病性分析	
陈杰,王子君,李鸿斐,白冬,胡向尚,宋佳静,宋全昊,金艳,赵立尚,朱统泉	(107)
新品种推广应用	
10个饲用燕麦品种在北疆不同生态区的生产性能评价	
赵永刚,刘彦,候国庆,杜晶	(111)
大豆新品种银豆4号的丰产性、稳定性和适应性分析	
杜世坤,赵振宁,赵宝勰,高玉芳	(117)
种子检验	
不同产地辽细辛种子特性及质量分级研究	
于春雷,李旭,孙文松	(121)
种子生产	
蓝桉实生瓶苗繁育技术体系的建立	
李艳,耿金凤,曹现富,邹广权,曹子林,王晓丽	(126)
应用技术	
野生扁蓿豆种子硬实破除方法研究	
伊风艳,杨鼎,温超,晔蒿罕,巩青,吴玉霞,布仁朝古拉,张璞进	(132)
不同处理对波叶青牛胆扦插的影响	
蒙真铖,陈林杨,陈鸿洁,只佳增,钱云,李国栋	(137)
经验交流	
我国园艺作物种苗生产情况分析及对策研究	
周泽宇,李莉,王娟娟,冷杨,尚怀国,王克健,蒋婧怡	(145)

SEED

Vol.41 No.03 March 2022

Monthly(Total No.351)

CONTENTS

Research Reports

Effect of ethylmethane sulfonate (EMS) on seed germination of <i>Lagerstroemia caudata</i> and the choice of semi-lethal dose	.....
XU Yan, WANG Jingyun, WU Yijing, ZHANG Yiming, ZHU Zining, CAI Ming, PAN Huitang, ZHANG Qixiang	(1)
Cloning and functional analysis of <i>Nicotiana benthamiana</i> RS Gene in response to cadmium stress	.....
LOU Bingbing, ZHAO Yibo, XIN Cuihua, BIAN Xiaoyan, GUO Jiangbo	(6)
Identification and molecular detection of gray leaf spot resistance in 26 elite maize inbred lines	.....
ZHOU Xueqin, YUAN Yanli, REN Hong, WANG Wei, BAI Guangxiao	(12)
Effects of different storage conditions on physiology and biochemistry and seed vigor of <i>Astragalus mongolicus</i>	.....
LU Haikun, JIANG Yecheng, SUI Xin, YU Yunze, YU Ying, GUO Jing	(18)
Effects of storage year on seed nutrient content, seed protective enzyme activity and seed vitality of <i>Securinega suffruticosa</i>	.....
XU Ningwei, YAO Nan, SHEN Jiangjie, LI Jingshi, LU Bin, ZHONG Xinyu, XU Xingyou, LU Bingshe	(25)
Creation of new germplasm of chicory modified by <i>FaGST</i> gene	.....
CHEN Xi, CHEN Ying, LIU Xiaoxia, LIU Chongyang, WU Xi, YAO Wenqin, ZHAO Degang, WANG Xiaoli	(32)
Effects of mixed saline-alkali stress on seed germination of three kinds of <i>Echinochloa</i> grass	.....
LAN Yan, ZHU Lin, WANG Tiantian, JING Qingfang, ZHANG Yang, ZHAO Xuelin	(37)
Cloning and functional analysis of tobamovirus multiplication protein 2 A gene of <i>Tetrastigma hemsleyanum</i> in Huaiyushan	.....
YIN Minghua, ZENG Shuqin, ZENG Ying, ZHANG Caixia, ZHANG Huibo, ZHANG Lijia	(45)
Identification and analysis of RAV gene family in tea plant	.....
TIAN Shiyu, ZHANG Beilin, ZHEN Yin, LÜ Litang	(52)

Discussion

Effects of PEG-6000 simulated drought stress on the germination period of highland barley seeds	.....
PENG Yulin, XIA Tianyi, ZOU Yunyang, WANG Hao, BAI Madeji, CHANG Xi	(58)
Combining ability analysis of eating quality traits of dual-purpose male sterile lines derived from rice C 815 S	.....
DENG Qiuyu, XIAO Feng, LIU Weiqi, ZENG Gai, LUO Lihua, XIAO Yinghui ^{1,2}	(63)
Correlation analysis of physiological characteristics and seed vigor of maize seeds with different maturity degree	.....
WANG Weijie, CHEN Baoguo, ZHANG Yuanhang, MA Ping, FENG Wanjun	(68)
Effects of exogenous gibberellin on seed germination and seedling growth of tomato under salt stress	.....
DAI Taoyu, WANG Qiancheng, ZHANG Yingying, ZHU Weimin, ZHANG Hui, WAN Yanhui	(74)

- Changes of water content and viability of seven cyclobalanopsis seeds under different storage conditions SHI Xibing, JIAO Xuehui, SHEN Xiaoxiao, LIANG Guan, ZHOU Xiaojuan, LIU Jie (81)
- Effects of different pretreatments on seed germination of *Nitraria tangutorum* L. in alpine wetland of Qaidam basin HU Juan, ZHANG Jie, SHENG Zhou, ZHOU Chenyu, LA Ben (87)
- Study on seed and cone trait and seedling growth characteristics of *Manglietia glaucifolia* endemic plants in Guizhou LI Mao, LI He, SHEN Jingmin, YANG Chenhua (92)

Varieties Breeding and Research

- Improvement, utilization, comprehensive analysis and evaluation of two maize core germplasms LIU Shouqu, DUAN Yunping, GUO Feng, REN Xiaoyan, SHI Hongwei, WANG Yi (99)
- Analysis on yield and component factors of new wheat variety Yinchun No.10 WEI Kongmei, YANG Jizhong, YU Hualin, SHI Xuehao (104)
- Analysis on yield, quality and disease resistance of a newly state-authorized wheat variety Zhumai 305 CHEN Jie, WANG Zijun, LI Hongfei, BAI Dong, HU Xiangshang, SONG Jiajing, SONG Quanhao, JIN Yan, ZHAO Lishang, ZHU Tongquan (107)

Promotion and Application of New Varieties

- Performance evaluation of 10 forage oat varieties in different ecological regions of northern Xinjiang ZHAO Yonggang, LIU Yan, HOU Guoqing, DU Jing (111)
- Analysis on yield, stability and adaptability of a new soybean variety Yindou No.4 DU Shikun, ZHAO Zhenning, ZHAO Baoxie, GAO Yufang (117)

Seed Inspection

- Study on seed characteristics and quality grading of *Asarum heterotropoides* from different producing areas YU Chunlei, LI Xu, SUN Wensong (121)

Seed Production

- Establishment of breeding technology system of *Eucalyptus globulus* in bottle seedlings LI Yan, GENG Jinfeng, CAO Xianfu, ZOU Guangquan, CAO Zilin, WANG Xiaoli (126)

Application Technologies

- Study on the method of breaking hardness of wild *Medicago ruthenica* seeds YI Fengyan, YANG Ding, WEN Chao, YE Ruhan, GONG Qing, WU Yuxia, Buren chaogula, ZHANG Pujin (132)
- Effects of different treatments on cutting of *Tinospora crispa* MENG Zhencheng, CHEN Linyang, CHEN Hongjie, ZHI Jiazeng, QIAN Yun, LI Guodong (137)

Exchange of Experience

- Analysis and policy suggestions on horticultural crops seedling production in China ZHOU Zeyu, LI Li, WANG Juanjuan, LENG Yang, SHANG Huaiguo, WANG Kejian, JIANG Jingyi (145)

办一流期刊 展品牌风范
倡学术交流 促科学发展
为产业服务 做人才摇篮

种子

月刊
ZHOONGZI



主管单位：贵州农业职业学院

主办单位：贵州农业职业学院、贵州省种子管理站

编辑出版：《种子》编辑部

贵州省(清镇)职教城乡愁校区

黄柿路3号 贵州农业职业学院3号实训楼

联系电话：0851-8536 0811, 0851-8536 0813

网 址：<http://zhzi.gznyzyxy.cn>

顾 问：宋宝安 黄宗洪 张太平 刘玉国 范六民

名誉主编：邓庆生

主 编：苏 跃

副 主 编：周介雄

戴 燮(常务)

英文责编：秦利军

中国标准连续出版物号：ISSN 1001-4705
CN 52-1066/S

国内发行：《种子》编辑部

邮发代号：66-22 国外代号：MO 4109

国外发行：中国国际图书贸易集团有限公司

订 购 处：全国各地邮政局

印 刷：贵阳快捷彩印有限公司

国内定价：每期18.00元，全年216.00元

ISSN 1001-4705

