

中国核心期刊（遴选）数据库收录期刊
中国学术期刊影响因子年报统计源期刊

ISSN 1007 - 2624
CN 23 - 1406/S

中国
糖
料

中 国 糖 料

SUGAR CROPS OF CHINA

第44卷 第3期

Vol.44 No.3

2022



第四十四卷 第三期

二〇二二年

目 次

遗传育种•生物技术

- 甘蔗褐锈病菌单管巢式PCR检测体系的建立 吴伟怀,刘宝慧,鹿鹏鹏,梁艳琼,贺春萍,李锐,易克贤(1)

- 甜菜 $SBPase$ 基因的遗传转化 韩平安,孙瑞芬,唐宽刚,常悦,王良,金晓蕾,梁亚晖,李晓东,吴新荣(8)

- 部分甜菜登记品种的农艺性状分析 彭菲,丁刘慧子,邵植,吴则东(14)

- 割手密糖分性状利用进展与探讨 赵丽萍,覃伟,张静,任生林,胥逢刚,姚丽,吴才文,陈学宽,刘家勇(22)

耕作栽培•生理生化

- 第十四轮甘蔗区试品种抗旱性比较 刘硕,樊仙,全怡吉,杨绍林,李如丹,邓军,张跃彬(27)

- 外源钙对干旱胁迫下甜菜幼苗生长的影响 梅书洋,何敏敏,耿贵,於丽华,王宇光(34)

- 叶喷黄腐酸钾对甜菜幼苗生理指标和光合特性的影响 张茜,宋昕,高中超,王中业,黄文功,王艳,宋柏权(41)

- 非生物胁迫调控甜菊糖苷合成的研究进展 徐新娟,冯玉丹,吴静,罗庆云(47)

土壤肥料•植物保护

- 甘蔗野生种割手密和大茎野生种的黑穗病抗性鉴定与评价 胡鑫,罗正英,赵培方,陆鑫,赵丽萍,刘洪博,吴转娣,赵勇,张静,任生林,吴才文,等(54)

- 不同浓度胺鲜酯对甜菜种子萌发的影响 邵昕怡,胡华兵,王荣华,刘大丽,吴则东,王茂芊(60)

- 甘蔗梢腐病及其防治进展 严晓妮,蒋洪涛,张木清(65)

产业发展•国外糖业

- 甜菜生产机械化发展分析 卢秉福,孙群英,於丽华,刘娜,张文彬,刘晓雪(70)

- 全球有机糖生产及贸易形势 刘晓雪,曹付珍(76)

- 澳大利亚蔗糖产业发展的特点与启示 李雨璇,武晋宇,刘新龙(81)

Sponsoring Unit: Heilongjiang University

Sugar Crops of China

2022, Vol. 44, No. 3

Sugarcane Institute of Yunan Academy

of Agricultural Sciences

**Co-organizer: Sugar Beet Professional Committee of
the Crop Science Society of China**

Contents

Genetic Breeding & Biotechnology

- Establishment of Single Tube Nested PCR Detection System for *Puccinia melanocephala* WU Weihuai, LIU Baohui, LU Pengpeng, LIANG Yanqiong, HE Chunping, LI Rui, YI Kexian (1)
- Genetic Transformation of Sugar Beet with *SBPase* Gene HAN Pingan, SUN Ruifen, TANG Kuangang, CHANG Yue, WANG Liang, et al (8)
- Agronomic Trait Analysis of Partial Registered Sugar Beet Varieties PENG Fei, DING Liuhuizi, PI Zhi, WU Zedong (14)
- Progress and Discussion of Sugar Characters Using *S. spontaneum* L. ZHAO Liping, QIN Wei, ZHANG Jing, REN Shenglin, ZAN Feng gang, et al (22)

Tillage and Cultivation & Physiology and Biochemistry

- Comparison of Drought Tolerance among the Testing Varieties in Fourteenth National Sugarcane Regional Trial LIU Shuo, FAN Xian, QUAN Yiji, YANG Shaolin, LI Rudan, DENG Jun, ZHANG Yuebin (27)
- Effects of Exogenous Calcium on Growth of Sugar Beet Seedlings under Drought Stress MEI Shuyang, HE Minmin, GENG Gui, YU Lihua, WANG Yuguang (34)
- Effects of Spraying Fulvic Acid Potassium on Physiological Indexes and Photosynthetic Characteristics of Sugar Beet Seedlings ZHANG Xi, SONG Xin, GAO Zhongchao, WANG Zhongye, HUANG Wengong, et al (41)
- Research Progress of Abiotic Stress Regulating Steviol Glycosides Accumulation XU Xinjuan, FENG Yudan, WU Jing, LUO Qingyun (47)

Soil Fertilizer & Plant Protection

- Identification and Evaluation of Smut Resistance in *S. spontaneum* and *S. robustum* Accessions HU Xin, LUO Zhengying, ZHAO Peifang, LU Xin, ZHAO Liping, LIU Hongbo, et al (54)
- Effects of Different Concentrations of Diethyl Aminoethyl Hexanoate (DA-6) on Germination of Sugar Beet Seeds SHAO Xinyi, HU Huabing, WANG Ronghua, LIU Dali, WU Zedong, WANG Maoqian (60)
- Advance on Sugarcane Pokkah Boeng Disease and Its Control YAN Xiaoni, JIANG Hongtao, ZHANG Muqing (65)

Industry Development & Foreign Sugar Industry

- Analysis on the Development of Sugar Beet Production Mechanization LU Bingfu, SUN Qunying, YU Lihua, LIU Na, ZHANG Wenbin, LIU Xiaoxue (70)
- Global Organic Sugar Production and Trade Situation LIU Xiaoxue, CAO Fuzhen (76)
- Characteristics of Sugar Industry in Australia and Its Enlightenment for China LI Yuxuan, WU Jinyu, LIU Xinlong (81)