

中国科技核心期刊

ISSN 2095-2341

CN 33-1375/Q
CODEN SJJHAN

生物技术进展

CURRENT BIOTECHNOLOGY

2021年 第11卷 第6期

主管：中华人民共和国农业农村部
主办：中国农业科学院茶叶研究所
中国农业科学院生物技术研究所

06

生物技术进展

第11卷第6期 2021年11月

目次

进展评述

- CRISPR/Cas9技术在小麦育种中的应用进展
…………… 曹巧,史占良,张国丛,班进福,郑树松,傅晓艺,张士昌,何明琦,韩然,高振贤(661)
- 三烯生育酚研究进展 …………… 李彦娇,高媛,王磊,张兰(668)
- 阿根廷转基因作物安全管理制度概况及进展…………… 李梦杰,贺晓云,全涛,梁晋刚,黄昆仑(676)
- 间充质干细胞在疾病治疗中的应用潜力
…………… 王惠,赵鹏翔,张旭娟,姚婷婷,刘梦昱,YAO Mawulikplimi Adzavon,谢飞(688)
- 宏基因组学技术在痤疮研究中的应用进展…………… 李伟,王冲,刘嗣嘉,杨敏一,张云平(694)
- 糖尿病心肌病发病机制的研究进展 …………… 廖敏,杨洛,王珍,郝亚荣(700)
- 替莫唑胺治疗胶质母细胞瘤的耐药性产生机制研究进展
…………… 姚婷婷,刘梦昱,赵鹏翔,王惠,仪杨,谢飞,YAO Mawulikplimi Adzavon(705)
- 胰岛素生长因子2 mRNA结合蛋白3与肿瘤的相关性研究进展
…………… 郭子豪,裴铁民,梁德森,袁帆(711)
- AMPK/SIRT1/PPAR γ /PGC1 α 轴及其相关因子在骨关节炎脂质代谢中的作用
…………… 梁传财,易鹏,邱波(718)
- 重组蛋白药物的生产技术进展 …………… 周娜娜,王小艳,张媛,王靖,赵国森,魏超,杨凯,安泰(724)

研究论文

- CRISPR/Cpf1单碱基编辑系统的构建及应用 …………… 李树磊,徐妙云,郑红艳,王磊(732)
- 基于游离质粒的木糖诱导型枯草芽孢杆菌转化体系的建立及其应用…………… 田辉,王帅,刘波(741)
- 脂肪酶研发态势的全球专利分析 …………… 张亚格,庞雨,张维,周正富(749)
- 软儿梨果酒发酵过程中挥发性风味物质变化分析…………… 裴鹏正,负建民,贾琦,赵雨萱,郝琳(758)
- 小反刍兽疫病毒H蛋白的原核表达及免疫原性测定
…………… 李丹,宋浩志,高维崧,刘兴健,张志芳,李轶女(770)
- 新型冠状病毒核酸检测试剂盒中酶的性能比较研究…………… 杨镇州,李妍,杨雪,刘刚,梁文(777)
- 基于CiteSpace分析核酸适体(Aptamer)技术研究现状 …………… 梁永羿,龙粤,冼嘉华,林骏,彭进(783)
- 基于生物膜干涉技术检测PDL1抗体与PDL1抗原的亲合力 …………… 胡妍,陈玲(795)
- 半乳糖凝集素-3对骨关节炎成骨细胞矿化的作用研究…………… 胡勇,杨俭,邱波(802)
- 远志皂苷与莲心碱对七氟烷诱发新生大鼠急性和远期认知功能损伤的改善作用及机制分析
…………… 韩丽丽,王惠霞,兰新昂,韩慧梅,孙洪超(807)

国际追踪

- 新加坡农业生物技术年报(2020)…………… 王迪,苗朝华,金莞军(编译)(813)

《生物技术进展》编委会(818) 《生物技术进展》征订启事(封二)

公益广告——动物友好型旅游(封三)

CURRENT BIOTECHNOLOGY

Vol.11 No.6 Nov. 2021

Contents

Reviews

- Progress of CRISPR/Cas9 Application in Wheat Breeding
... CAO Qiao, SHI Zhanliang, ZHANG Guocong, BAN Jinfu, ZHENG Shusong, FU Xiaoyi,
ZHANG Shichang, HE Mingqi, HAN Ran, GAO Zhenxian(661)
- Research Progress of Tocotrienol LI Yanjiao, GAO Yuan, WANG Lei, ZHANG Lan(668)
- Overview and Progress of Safety Regulatory System of Genetically Modified Crops in Argentina
..... LI Mengjie, HE Xiaoyun, TONG Tao, LIANG Jingang, HUANG Kunlun(676)
- The Application Potential of Mesenchymal Stem Cells in the Treatment of Diseases
..... WANG Hui, ZHAO Pengxiang, ZHANG Xujuan, YAO Tingting, LIU Mengyu,
YAO Mawulikplimi Adzavon, XIE Fei(688)
- Application Progress of Metagenomic Technology in Acne Research
..... LI Wei, WANG Chong, LIU Sijia, YANG Minyi, ZHANG Yunping(694)
- Research Progress on the Pathogenesis of Diabetic Cardiomyopathy
..... LIAO Min, YANG Luo, WANG Zhen, HAO Yarong(700)
- Research Progress of Temozolomide in the Mechanism of Drug Resistance in Glioblastoma
..... YAO Tingting, LIU Mengyu, ZHAO Pengxiang, WANG Hui, YI Yang, XIE Fei,
YAO Mawulikplimi Adzavon(705)
- Progress on Correlation Between Insulin Growth Factor 2 mRNA Binding Protein 3 and Tumor
..... GUO Zihao, PEI Tiemin, LIANG Desen, YUAN Fan(711)
- Effects of AMPK/SIRT1/PPAR γ /PGC1 α Axis and Related Factors on Lipid Metabolism in
Osteoarthritis LIANG Chuancai, YI Peng, QIU Bo(718)
- Progress on the Production Technology of Recombinant Therapeutic Proteins
... ZHOU Nana, WANG Xiaoyan, ZHANG Yuan, WANG Jing, ZHAO Guomiao, WEI Chao,
YANG Kai, AN Tai(724)

Articles

- Establishment and Application of CRISPR/Cpf1-mediated Base Editing System
..... LI Shulei, XU Miaoyun, ZHENG Hongyan, WANG Lei(732)
- Construction and Application of Plasmid-based and Xylose-induced Transformation System of
Bacillus subtilis TIAN Hui, WANG Shuai, LIU Bo(741)
- Global Patent Analysis of Lipase Development Trends
..... ZHANG Yage, PANG Yu, ZHANG Wei, ZHOU Zhengfu(749)
- Analysis on Changes of Volatile Flavor Compounds in Ruan'er Pear Wine During Fermentation
..... PEI Pengzheng, YUN Jianmin, JIA Qi, ZHAO Yuxuan, HAO Lin(758)
- Prokaryotic Expression and Immunogenicity Detection of the H Protein of Peste des Petits Ruminants
Virus LI Dan, SONG Haozhi, GAO Weisong, LIU Xingjian, ZHANG Zhifang, LI Yinyu(770)
- Research on Functional Evaluation Method of Enzymes in Nucleic Acid Detection Kits
..... YANG Zhenzhou, LI Yan, YANG Xue, LIU Gang, LIANG Wen(777)
- Analysis on the Research Status of Aptamer Technology Based on CiteSpace
..... LIANG Yongyi, LONG Yue, XIAN Jiahua, LIN Jun, PENG Jin(783)
- Detection the Affinity Between PDL1 Antibodies and PDL1 Antigen Based on Biolayer Interferometry
..... HU Yan, CHEN Ling(795)
- The Effect of Galectin-3 on the Abnormal Mineralization of Osteoarthritic Osteoblasts
..... HU Yong, YANG Jian, QIU Bo(802)
- Analysis of Improvement Effect and Mechanism of Tenuigenin and Liensinine on Sevoflurane-
induced Acute and Longterm Cognitive Impairments of Neonatal Rats
..... HAN Lili, WANG Huixia, LAN Xinang, HAN Huimei, SUN Hongchao(807)

International Track

- Singapore Agricultural Biotechnology Annual (2020)
..... WANG Di, MIAO Chaohua, JIN Wujun (Compiler)(813)