

动物科学·兽医学

慢病毒介导多短发卡 RNA 串联载体构建与体内外抗口蹄疫效果评估

····· 张晓溪, 李兰玉, 刘庆友, 郑海学, 李湘萍, 崔奎青, 石德顺(1)

头孢喹肟对金黄色葡萄球菌防突变浓度的研究 ··· 王 静, 单 奇, 黎菊凤, 利 斌, 张少威, 曾振灵(7)

种禽场 A 亚群禽白血病病原学调查及分离株遗传进化分析

····· 冯 敏, 谭利强, 代曼曼, 郝建勇, 秦建如, 黄小容, 廖 明, 曹伟胜(11)

高效液相色谱-串联质谱法测定牛(羊)奶中阿莫西林的残留

····· 李帅鹏, 黄显会, 许 颖, 郭春娜, 孔祥凯(16)

20 味中药提取物对无乳链球菌的体外抑菌活性研究

····· 彭练慈, 殷中琼, 贾仁勇, 李 莉, 代如意, 曲 径, 刘明辉, 陈 萍(22)

农学·园艺学

低温对孕穗期玉米根系生理特性的影响 ····· 胡文河, 于 飞, 谷 岩, 杨 溢, 闫 丽, 吴春胜(26)

不同浓度聚乙二醇对玉米杂交种幼苗质量及保水性的影响

····· 康志钰, 王建军, 孔繁军, 邢吉敏, 吴 鹏(31)

水稻/再力花单、间作系统中作物对镉胁迫的叶绿素荧光响应及镉积累特征

····· 梁开明, 傅 玲, 章家恩, 杨 滔(35)

湖南新田大冠岭野生大豆居群遗传结构与空间分布关系

····· 赵青松, 赵云云, 王 朋, 邓小娟, 马启彬, 年 海, 杨存义(42)

耐铝根瘤菌的筛选及耐性菌株特性的研究 ····· 李秀平, 王瑞鹏, 年 海, 牟英辉(50)

番茄 SSR 标记在茄子及其他茄科蔬菜作物上的通用性分析

····· 汪国平, 牛 玉, 汪文毅, 乐素菊, 林鉴荣(56)

植物保护

应用 3 种方法评价 4 种新氯化烟碱类杀虫剂对棉花粉蚧的毒力 ····· 梁巧丽, 陆永跃, 梁广文(61)

鬼臼毒素及 4'-去甲基鬼臼毒素对黄曲条跳甲的拒食活性研究 ····· 赵 慧, 徐 迪(67)

广东和江西省柑橘溃疡病菌的遗传多样性分析 ····· 魏楚丹, 丁 钊, 叶 淦, 刘琼光(71)

生物质能研究专栏

生物质制乙醇预处理方法的研究进展 ····· 张爱萍, 谢 君(77)

麻风树无性系种实性状变异与选择 ····· 惠文凯, 刘明骞, 陈丽君, 彭昌操, 陈晓阳(85)

异丁酸酐室温均相改性甘蔗渣的研究 ····· 张爱萍, 谢 君(92)

拟南芥木聚糖合成关键酶基因的调控研究 ····· 王玉琪, 贺俊波, 吴蔼民(97)

用于乙醇生产的‘热研 4 号’王草石灰预处理条件优化研究 ····· 高瑞芳, 张腾飞, 张建国(103)

农业工程

基于 GPRS 与 ZigBee 的果园环境监测系统

····· 岳学军, 王叶夫, 刘永鑫, 徐 兴, 陈树荣, 陈奕希, 侯勉聪, 燕英伟, 全东平, 陈柱良(109)

研究简报

低温处理对黄喉拟水龟胚胎发育的影响 ····· 郭捡红, 朱新平, 赵 建, 魏成清, 潘德博(114)

CONTENTS

Animal science · Veterinary medicine

Construction of lentivirus-mediated multi-shRNAs vector and evaluation of anti-FMDV *in vitro* and *vivo*

..... ZHANG Xiaoxi, LI Lanyu, LIU Qingyou, ZHENG Haixue,
LI Xiangping, CUI Kuiqing, SHI Deshun(1)

A study on mutant prevention concentration of cefquinome against *Staphylococcus aureus*

..... WANG Jing, SHAN Qi, LI Jufeng, LI Bin, ZHANG Shaowei, ZENG Zhenling(7)

Etiology surveys and phylogenetic analyses of avian leukosis virus subgroup A isolated from breeder chickens farms

..... FENG Min, TAN Liqiang, DAI Manman, HAO Jianyong, QIN Jianru,
HUANG Xiaorong, LIAO Ming, CAO Weisheng(11)

Determination of amoxicillin residues in milk by high performance liquid chromatography-tandem mass spectrometry

..... LI Shuaipeng, HUANG Xianhui, XU Ying, GUO Chunna, KONG Xiangkai(16)

Effects of twenty traditional Chinese medicine extracts against *Streptococcus agalactiae in vitro*

..... PENG Lianci, YIN Zhongqiong, JIA Renyong, LI li, DAI Ruyi, QU Jing,
LIU Minghui, CHEN Ping(22)

Agronomy · Horticulture

Effects of low temperature on physiological characteristics of maize root at booting stage

..... HU Wenhe, YU Fei, GU Yan, YANG Yi, YAN Li, WU Chunsheng(26)

Effects of different polyethylene glycol concentrations on seedling quality and water retention of

maize hybrid KANG Zhiyu, WANG Jianjun, KONG Fanjun, XING Jimin, WU Peng(31)

Responses of PSII chlorophyll fluorescence under Cd stress and characteristics of Cd accumulation in *Thalia dealbata*

and rice mono- and inter-cropping systems LIANG Kaiming, FU Ling, ZHANG Jiaen, YANG Tao(35)

Relationship between genetic structure and spatial distribution of wild soybean, *Glycine soja* Sieb. et Zucc.

populations around Daganling in Xintian, Hunan Province
..... ZHAO Qingsong, ZHAO Yunyun, WANG Peng, DENG Xiaojuan,
MA Qibin, NIAN Hai, YANG Cunyi(42)

Screening for Al-tolerant rhizobium and a study on its characters

..... LI Xiuping, WANG Ruipeng, NIAN Hai, MU Yinghui(50)

Transferability of tomato SSR markers to eggplants and other Solanaceous vegetables

..... WANG Guoping, NIU Yu, WANG Wenyi, YUE Suju, LIN Jianrong(56)

Plant protection

Toxicities of 4 neonicotinoid insecticides to *Phenacoccus solenopsis* by 3 bioassay methods

..... LIANG Qiaoli, LU Yongyue, LIANG Guangwen(61)

Antifeedant activities of podophyllotoxin and 4'-demethylpodophyotoxin against the adult of striped flea beetles, *Phyllotreta striolata* ZHAO Hui, XU Di(67)

Genetic diversities of *Xanthomonas citri* subsp. *citri* in Guangdong and Jiangxi Provinces

..... WEI Chudan, DING Tian, YE Gan, LIU Qiongguang(71)

Biomass energy column

Pretreatment method for production of bioethanol with lignocellulosic material ... ZHANG Aiping, XIE Jun(77)

Fruit traits variation and clone selection of *Jatropha curcas*

..... HUI Wenkai, LIU Mingqian, CHEN Lijun, PENG Changcao, CHEN Xiaoyang(85)

Homogeneous modification of sugarcane bagasse with isobutyric anhydride at room temperature

..... ZHANG Aiping, XIE Jun(92)

Studies on the regulation of xylan biosynthesis key enzyme genes in *Arabidopsis thaliana*

..... WANG Yuqi, HE Junbo, WU Aimin(97)

Lime pretreatment optimization of *Pennisetum purpureum* × *P. americanum* cv. Reyan No. 4 for ethanol

production GAO Ruifang, ZHANG Tengfei, ZHANG Jianguo(103)

Agricultural engineering

Orchard environmental monitoring system based on GPRS and ZigBee

..... YUE Xuejun, WANG Yefu, LIU Yongxin, XU Xing, CHEN Shurong, CHEN Yixi, HOU Miancong, YAN Yingwei, QUAN Dongping, CHEN Zhuliang(109)

Short communication

Effects of low temperature on embryonic development of yellow pond turtle, *Mauremys mutica*

..... GUO Jianhong, ZHU Xinping, ZHAO Jian, WEI Chengqing, PAN Debo(114)