

### 病原学

- 553 苹果花脸和锈果症状伴随的苹果锈果类病毒分离物的分子特性分析 查富蓉, 王振华, 徐勤耕, 陈姣, 殷玉梦, 谭茂秋, 王国平, 洪霓, 徐文兴

### 细胞生物学、生理学、生物化学、分子生物学

- 563 水鬼蕉感染 HCRV 不同发病时期的病毒粒体分布与亚细胞病变特征 张涵, 王茂森, 王田田, 朱若萌, 童金金, 李好

- 570 小麦-条锈菌互作过程中 *TaRLK3D.2* 功能初步研究 王从娜激, 崔治军, 李翔, 位佳靓, 张家祯, 易科, 袁凤平, 康振生, 韩德俊, 曾庆东

- 580 苹果树腐烂病菌含 cupin 结构域蛋白 Vmcupin1 的鉴定及功能分析 张琼, 刘召阳, 高承宇, 杜旋, 冯浩, 黄丽丽

- 589 白桦 TGA 基因家族全基因组鉴定及表达特性分析 冯思雨, 毕德泷, 孙晶晶, 宁小萌, 李然红

- 601 玉蜀黍平脐蠕孢聚酮合酶基因 *BmPKS18* 的功能分析 刘庆强, 孙炳剑, 邢小萍, 丁胜利, 李海洋, 袁虹霞

- 613 苦荞麦 *WRKY15* 转录因子基因的分子克隆及其在叶斑病原与激素诱导下的表达分析 曾丽佩, 彭喜旭, 邬清韬, 田建红, 唐新科, 王海华

- 624 对甘蔗线条花叶病毒存在抗性差异的 2 个甘蔗品种中 *eIF4E* 基因序列分析 单红丽, 陈都, 王晓燕, 张荣跃, 李婕, 王长秘, 李银湖, 黄应昆

### 植物病害及其防治

- 633 小麦条锈菌对三唑酮敏感性生测体系优化及其抗药性分子标记开发 夏铭浩, 周爱红, 纪凡, 赵鳌, 康振生, 詹刚明

- 642 金银花黄萎病的病原鉴定及生防菌剂防控 鹿秀云, 商俊燕, 苏振贺, 郭庆港, 李社增, 贾海民, 李耀发, 马平

- 655 北方三省(自治区)马铃薯晚疫病菌对 QoI 类杀菌剂敏感性动态监测 路粉, 吴杰, 李洋, 孟润杰, 毕秋艳, 杨坡, 韩秀英, 王文桥, 赵建江

- 666 根皮苷对苹果再植病害及对再植土壤真菌群落的影响 王璐, 李波, 李东旭, 董燕红, 孙杨, 曹克强, 王树桐

- 679 禾生指梗霉菌侵染对谷子幼穗分化及发育的影响 张宝俊, 张育铭, 孙卓楠, 付振鑫, 徐林, 韩渊怀  
690 6 种药剂处理对西葫芦种子表面微生物群落的影响 唐秀丽, 杨建敏, 孟志龙, 石瑛

### 研究简报

- 701 山东省草莓根腐病病原菌 *Mucor irregularis* 的鉴定 高旭利, 李永腾, 李朝霞, 兰成云, 马秀明, 张敏, 曲丽, 张卫华

- 705 海南海芋叶斑病病原鉴定 屈湘乡, 胡美姣, 王舒敏, 丰雯丽, 高兆银, 李敏, 李晓宇

- 709 江西奉新猕猴桃炭疽病病原菌鉴定 袁信恩, 刘冰, 熊桂红, 李庚花, 李帮明, 涂贵庆, 蒋军喜

- 713 引起李树叶枯病的镰刀菌种类鉴定 鲁萌萌, 马立安, 唐利华, 陈小林, 郭堂勋, 黄穗萍, 李其利

- 717 椰枣叶斑病的病原鉴定 王义, 张宁, 高兆银, 胡美姣, 洪小雨, 李敏, 符海泉, 李东霞, 徐中亮

- 721 八仙花叶斑病病原的分离与鉴定 赵娟, 乔广行, 段佳琪, 谭晓倩, 邱艳红, 秦文韬

- 725 引起我国葡萄黑根病的 *Dactyloctenia novozelandica* 的鉴定 谭海芸, 吴林娜, 张玮, 陈鹏召, 李兴红, 燕继晔

- 729 山东省葡萄白腐病病原菌鉴定 袁丽芳, 尹向田, 蒋锡龙, 李廷刚, 魏彦锋

- 734 枸树炭疽病菌的分离与鉴定 王成彬, 涂艳, 姜宁, 朱雅荟, 薛寒, 朴春根, 李永

- 739 即墨白庙芋头软腐病病原菌鉴定 王东坤, 曹守涛, 李艺池, 袁源, 崔针针, 战徊旭, 王晓强

- 743 山药潜隐病毒 RT-LAMP 快速检测方法的建立 王凤丽, 王飞, 鲁传涛, 高素霞, 刘玉霞, 文艺, 杨瑾, 李雪梦, 戚文平, 刘国彬, 张红瑞, 蔡丽, 秦艳红

- 748 枸杞马铃薯纺锤块茎类病毒的鉴定 樊云芳, 董雅凤, 黄婷, 秦小雅, 梁晓婕, 秦垦, 范旭东

## ETIOLOGY

- 553 Molecular characteristics analysis of apple scar skin viroid isolates associated with dapple and scar symptoms of apple fruits  
ZHA Furong, WANG Zhenhua, XU Qingeng, CHEN Jiao, YIN Yumeng, SHEN Maoqiu, WANG Guoping, HONG Ni, XU Wenxing

## CELL BIOLOGY, PHYSIOLOGY, BIOCHEMISTRY, AND MOLECULAR BIOLOGY

- 563 Virions distribution and sub-cellular pathological characteristics at different stages of *Hymenocallis littoralis* infected with Hippeastrum chlorotic ringspot orthopspovirus  
ZHANG Han, WANG Maosen, WANG Tiantian, ZHU Ruomeng, TONG Jinjin, LI Yu

- 570 Preliminary study of the *TaRLK3D.2* function in the interaction between wheat and *Puccinia striiformis* f. sp. *tritici*  
WANG Congnawei, CUI Zhijun, LI Xiang, WEI Jiajing, ZHANG Jiazen, YI Ke, YUAN Fengping, KANG Zhensheng, HAN Dejun, ZENG Qingdong

- 580 Identification and functional analysis of cupin domain-containing protein Vmcupin1 in *Valsa mali*  
ZHANG Qiong, LIU Zhaoyang, GAO Chengyu, DU Xuan, FENG Hao, HUANG Lili

- 589 Genome-wide identification and expression analysis of TGA family genes in birch  
FENG Siyu, BI Delong, SUN Jingjing, NING Xiaomeng, LI Ranrong

- 601 Functional analysis of the polyketide synthase gene *BmPKS18* in *Bipolaris maydis*  
LIU Qingqiang, SUN Bingjian, XING Xiaoping, DING Shengli, LI Haiyang, YUAN Hongxia

- 613 Molecular cloning of *WRKY15* transcription factor gene in *Fagopyrum tataricum* and analysis of its expression induced by leaf spot pathogens and hormones  
ZENG Lipei, PENG Xixu, WU Qingtao, TIAN Jian-hong, TANG Xinke, WANG Haihua

- 624 Sequence analysis of eukaryotic translation initiation factor eIF4E from two varieties of sugarcane with differential resistance to sugarcane streak mosaic virus  
SHAN Hongli, CHEN Du, WANG Xiaoyan, ZHANG Rongyue, LI Jie, WANG Changmi, LI Yinhua, HUANG Yingkun

## PLANT DISEASE AND CONTROL

- 633 Optimization of bioassay system for sensitivity of *Puccinia striiformis* f. sp. *tritici* to triadimefon and development of molecular markers for fungicide-resistance  
XIA Minghao, ZHOU Aihong, JI Fan, ZHAO Jun, KANG Zhensheng, ZHAN Gangming

- 642 Pathogen identification and biological agent control of honeysuckle *Verticillium* wilt  
LU Xiuyun, SHANG Junyan, SU Zhenhe, GUO Qinggang, LI Shezeng, JIAHaimin, LI Yaofa, MA Ping

- 655 Dynamic monitoring of sensitivity to Qo1 fungicides of *Phytophthora infestans* in three provinces (autonomous regions) of Northern China  
LU Fen, WU Jie, LI Yang, MENG Runjie, BI Qiyuan, YANG Po, HAN Xiuying, WANG Wenqiao, ZHAO Jianjiang

- 666 Effect of phlorizin on apple replant disease and

## fungal community in replanted soil

- WANG Lu, LI Bo, LI Dongxu, DONG Yanhong, SUN Yang, CAO Keqiang, WANG Shutong

- 679 Impact of *Sclerospora graminicola* infection on spikelet differentiation and development of foxtail millet (*Setaria italica* L.)  
ZHANG Baojun, ZHANG Yuming, SUN Zhuonan, FU Zhenxin, XU Lin, HAN Yuanhuai

- 690 Effects of six chemical treatments on surface microbial communities of zucchini seeds  
TANG Xiuli, YANG Jianmin, MENG Zhilong, SHI Ying

## RESEARCH NOTES

- 701 Identification of the pathogen *Mucor irregularis* causing strawberry root rot in Shandong  
GAO Xuli, LI Yongteng, LI Zhaoxia, LAN Chengyun, Ma Xiuming, ZHANG Min, QU Li, ZHANG Weihua

- 705 Identification of the pathogen causing leaf spots on *Alocasia odora* in Hainan  
QU Xiangxiang, HU Meijiao, WANG Shumin, FENG Wenli, GAO Zhaoyin, LI Min, LI Xiaoyu

- 709 Identification of the pathogen of kiwifruit anthracnose in Fengxin County, Jiangxi Province  
YUAN Xinen, LIU Bing, XIONG Guihong, LI Genghua, LI Bangming, TU Guiqing, JIANG Junxi

- 713 Identification of the species of *Fusarium* causing plum leaf blight  
LU Mengmeng, MA Lian, TANG Lihua, CHEN Xiaolin, GUO Tangxun, HUANG Suiping, LI Qili

- 717 Identification of the pathogen causing leaf spot disease of date palm  
WANG Yi, ZHANG Ning, GAO Zhaoyin, HU Meijiao, HONG Xiaoyu, LI Min, FU Haiquan, LI Dongxia, XU Zhongliang

- 721 Isolation and identification of the pathogen causing leaf spot on *Hydrangea macrophylla*  
ZHAO Juan, QIAO Guanghang, DUAN Jiaqi, TAN Xiaoqian, QIU Yanhong, QIN Wentao

- 725 Identification of *Dactylonectria novozelandica* causing black foot disease of grapevine in China  
TAN Haiyun, WU Linna, ZHANG Wei, CHEN Pengzhao, LI Xinghong, YAN Jiye

- 729 Identification of the pathogen *Coniella vitis* causing grape white rot in Shandong Province  
YUAN Lifang, YIN Xiangtian, JIANG Xilong, LI Tinggang, WEI Yanfeng

- 734 Identification of pathogen causing *Catalpa bungei* anthracnose  
WANG Chengbin, TU Yan, JIANG Ning, ZHU Yaquan, XUE Han, PIAO Chungen, LI Yong

- 739 Identification of the pathogen causing soft rot on Baimiao taro in Jimo  
WANG Dongkun, CAO Shoutao, LI Yichi, YUAN Yuan, CUI Zhenzhen, ZHAN Huaxu, WANG Xiaoqiang

- 743 Establishment of RT-LAMP rapid detection method for yam latent virus  
WANG Fengli, WANG fei, LU Chuatao, GAO Suxia, LIU Yuxia, WEN Yi, YANG Jin, LI Xuemeng, QI Wenping, LIU Guobin, ZHANG Hongrui, CAI Li, QIN Yanhong

- 748 Identification of potato spindle tuber viroid in *Lycium* Linn.  
FAN Yunfang, DONG Yafeng, HUANG Ting, QIN Xiaoya, LIANG Xiaojie, QIN Ken, FAN Xudong