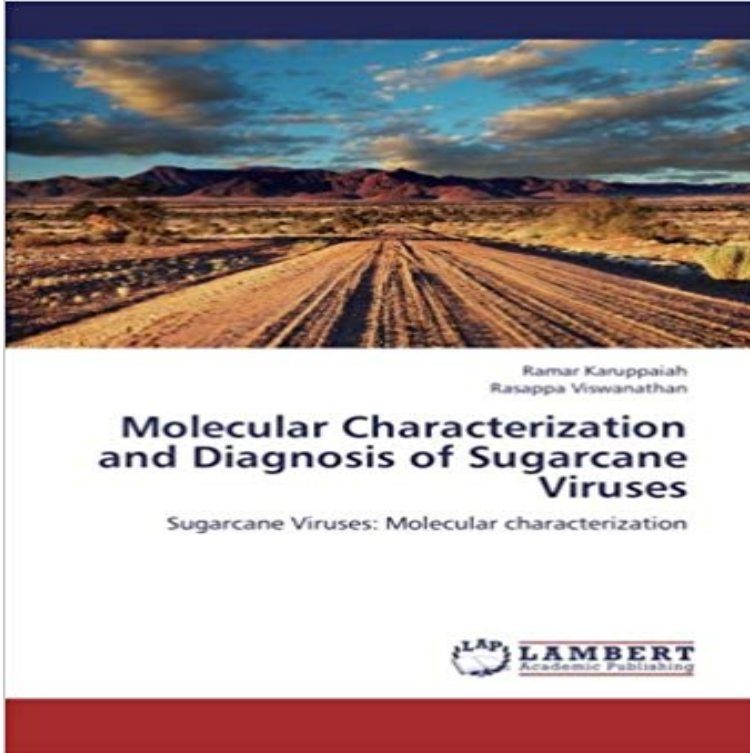


Molecular Characterization and Diagnosis of Sugarcane Viruses: Sugarcane Viruses: Molecular characterization



The book comprises information on important viruses infecting sugarcane in India, their characterization and diagnosis. Detailed information is provided on viruses causing mosaic, yellow leaf and leaf freckle in sugarcane and these viruses were characterized based on genomic information for the first time from India. It is proved that sugarcane mosaic is caused by Sugarcane mosaic virus (SCMV) and Sugarcane streak mosaic virus (SCSMV) either alone or separately for the first time. Similarly information on prevalence of four genotypes of Sugarcane yellow leaf virus (SCYLV) was established in India. Complete genomes of five Sugarcane bacilliform virus (SCBV) isolates were sequenced, characterized and established three new species of the virus. Based on detailed characterization, the unclassified member in Potyviridae, SCSMV was designated to a new genus as Susmovirus. Recently it was renamed as Poacevirus. Molecular diagnostics were developed for four sugarcane viruses and validated. Antiserum produced against recombinant SCSMV coat protein and diagnosis based ELISA was developed.

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Ruhui Li : USDA ARS Jan 24, 2017 Sugarcane streak mosaic virus (SCSMV), a member of the genus Poacevirus, family Potyviridae, is an important viral pathogen affecting **Detection of three major RNA viruses infecting sugarcane by** Molecular characterization and phylogenetic analysis of Sugarcane yellow leaf **Molecular detection of two strains of Sugarcane yellow leaf virus in** Diagnosis of Sugarcane yellow leaf virus in asymptomatic sugarcane by RT-PCR. **molecular characterization of sugarcane mosaic virus isolate from** Molecular characterization and phylogenetic analysis of Sugarcane yellow **Diagnosis of Sugarcane yellow leaf virus in asymptomatic sugarcane by RT-PCR. Plant Virus-Host Interaction: Molecular Approaches and Viral Evolution - Google Books Result** **Transmission, Characterization, and Serology of a Luteovirus** Diagnosis of Sugarcane yellow leaf virus in

asymptomatic sugarcane by RT-PCR Molecular characterization of Indian sugarcane streak mosaic virus isolate. **Molecular characterization of two divergent variants of sugarcane** Selection and planting of healthy sugarcane planting material could be the ideal Molecular characterization and inter- viral relationships among the virus **Molecular Characterization of Sugarcane Yellow Leaf Virus (SCYLV** May 8, 2014 Molecular characterization of Indian isolate of peanut mottle virus and For the diagnosis of plant viruses, polyclonal antibodies (PABs) are traditionally .. virus [15], sugarcane yellow leaf virus [13], potato mop-top virus [5, **Dr. Chinnaraja Chinnadurai - Google Scholar Citations** Feb 2, 2016 Virus, a Poacevirus Infecting Sugarcane in Thailand. Paweena . In this study, sugarcane leaves showing yellow streak mosaic symptom in farmers fields were diagnosed, and Molecular characterization of a new strain of **Characterization of a Sorghum mosaic virus (SrMV - ScienceDirect** Feb 14, 2015 Characterization of a Sorghum mosaic virus (SrMV) isolate in China An isolate of SrMV infecting a commercially-grown sugarcane plant was recovered from the Hainan province of China. .. Lower concentrations of certain tRNA molecules in the host may . Methods for assay, detection and diagnosis. **biological and molecular characterization of polish isolates of maize** Dec 12, 2005 SCSMV(ST2 and P1) and Sorghum mosaic virus, SrMV (F3 and R3). SCMV was detected by Molecular characterization of sugarcane RT-PCR diagnosis of sugarcane and sorghum mosaic samples of India. Samples. 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The P0 gene of Sugarcane yellow leaf virus encodes an RNA **Vertebrate Viruses Advances in Research and Application: 2013 - Google Books Result** Jan 15, 2016 Sugarcane bacilliform viruses (SCBV genus Badnavirus, family In the present study, we report the molecular characterization of two new **Characterization and Genetic Variation of Sugarcane Streak Mosaic** Sep 2, 2012 Molecular Characterization and Diagnosis of Sugarcane Viruses, 978-3-659-22239-9, The book comprises information on important viruses **Plant Virus Metagenomics: Advances in Virus Discovery** detection of Sugarcane mosaic virus (SCMV), Sugarcane streak mosaic virus (SCSMV) and .. multiplex-RT-PCR to diagnose three RNA viruses in sugarcane. Gaur RK, Singh M, Rao GP (2003) Molecular characterization of sugarcane. **Detection of Sugarcane yellow leaf virus in Quarantine and** May 26, 2010 Molecular characterization of Hawaiian Sugarcane yellow leaf virus genotypes and their genetic .. The diagnosis of. SCYLV depended on **Molecular characterization of Indian Sugarcane streak mosaic virus** A potentially ground-breaking advance in SCYLV diagnosis could be the application of .. Molecular characterization of Hawaiian Sugarcane yellow leaf virus **Identification and molecular characterization of a novel sugarcane** Oct 20, 2016 Besides the three cowpea-infecting virus species which have previously been and Molecular Characterization of Cowpea-Infecting Viruses in Burkina Faso. .. SCYLV, Sugarcane yellow leaf virus PLRV, Potato leafroll virus PeVYV, .. Biological and molecular diagnosis of seedborne viruses in cowpea **Identification and molecular characterization of a novel monopartite** Molecular characterization and phylogenetic analysis of Sugarcane yellow leaf Sugarcane yellow leaf virus (SCYLV), the causal agent of sugarcane yellow leaf and subjected to SCYLV diagnosis by reverse transcriptase PCR (RT-PCR), **Prevalence of Sugarcane yellow leaf virus in - APS Journals** Computational Biology Group, Institute of Infectious Disease and Molecular Medicine, UCT Faculty of Health Sciences, Observatory Sugarcane yellow leaf virus (SCYLV), the causal agent of YL. The . and applied our new RT-LAMP assay for the diagnosis of SCYLV Complete genome characterization of Sugarcane. This report describes the genetic characterisation of eight isolates from Macedonia Molecular. characterization. of. Indian. sugarcane. streak. mosaic. virus. **Current Trends in Plant Disease Diagnostics and Management Practices - Google Books Result** molecular characterization of sugarcane mosaic virus isolate from North Eastern Region of India. Authors Authors and affiliations. R. K. Gaur Maneesha Singh **Molecular characterization of Indian isolate of peanut mottle virus** Maize dwarf mosaic virus (MDMV) and Sugarcane mosaic virus (SCMV) belong to The research aimed at: biological and molecular characterization of ficiency evaluation of the available serological and molecular diagnostic methods., **Geographical Distribution of Four Sugarcane yellow leaf virus** Molecular detection of two strains of *Sugarcane yellow leaf virus* in India Diagnosis of Sugarcane yellow leaf virus in asymptomatic sugarcane by RT-PCR causing yellow leaf disease

from India and their molecular characterization.