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Easiest Way to Grow Sugarcane

Phytoplasma Sugarcane Molecular Analysis **Phytoplasmas** Phytoplasmas are plant pathogenic microorganisms. The Yellow leaf syndrome (YLS) had been first detected and described in Hawaiian sugarcane plantations. In this work, several surveys on sugarcane plants in Hawaiian Islands were done for sugarcane yellow leaf phytoplasma (SCYLP).

Phytoplasma in Sugarcane: Molecular Analysis of ... Molecular diagnostic techniques for phytoplasma detection began to emerge in the 1980s and included enzyme-linked immunosorbent assay -based methods. In the early 1990s, polymerase chain reaction (PCR)-based techniques were developed: these are far more sensitive than ELISAs, and restriction fragment length polymorphism (RFLP) analysis allowed ...

Phytoplasma - Wikipedia Phylogenetic analysis suggested that the phytoplasmas from sugarcane and S. saccharivora are putative members of a new 16Sr phytoplasma group. This is the first report of vector transmission of a phytoplasma associated with sugarcane yellow leaf syndrome and the first time that S. saccharivora has been shown to vector a phytoplasma.

Transmission of a sugarcane yellow leaf phytoplasma by the ... The sugarcane phytoplasma showed a sequence homology of 95,98% with the SCWL agent. Sugarcane green grassy shoot Sugarcane green grassy shoot (SCGGS) is a newly discovered phytoplasma disease of sugarcane. It has been observed in Thailand (Pliansinchai and Prammanee, 2000; Rao and Ford, 2001).

Phytoplasma diseases of sugarcane

Abstract. Sugarcane is severely affected by yellows and decline diseases of phytoplasma etiology. These diseases which are of considerable economic importance, cause similar symptoms but differ in the identity of the associated phytoplasmas, vectorship and geographic distribution. Sugarcane white leaf (SCWL) and sugarcane grassy shoot (SCGS) occur only in the south-east Asian region and not in other sugarcane growing areas of the world.

Phytoplasma diseases of sugarcane | SpringerLink Three Egyptian sugarcane cultivars were phytoplasma free. Phylogenetic analyses of 34 screened accessions of 16S ribosomal DNA gene sequences of Candidatus phytoplasma including the ones collected from Egypt used in this study and those extracted from GenBank showed that they split into two distinct clusters. The phylogenetic analyses indicated that these phytoplasmas are closely related and share a common ancestor.

Detection and Characterization of Phytoplasma and ... The rDNA analysis showed that the SCWL phytoplasmas are also related to the sugarcane grassy shoot phytoplasmas and other phytoplasmas associated with white leaf diseases in gramineous weeds in Northeast Thailand phylogenetically, but that they are not identical.

Molecular Detection and Characterization of Phytoplasmas ... II. 'Candidatus Phytoplasma' species*. In the second system, phytoplasmas are classified into 'Candidatus Phytoplasma' species, based on the nucleotide sequence of the 16S rRNA gene. In this system, the nucleotide sequences of 16S rRNA genes from different phytoplasmas are aligned by a sequence alignment computer program, and the % identities among the sequences are calculated.

Phytoplasma Classification System II - USDA Phytoplasmas are cell wall-less bacteria that invade plant phloem sieve cells and are responsible for numerous diseases in agriculturally important crops. Effective management of phytoplasma diseases requires early disease diagnosis and sensitive detection of pathogens so that appropriate measures can be applied in a timely manner.

USDA-ARS Molecular & Physiological Markers for Phytoplasma ... Phytoplasma Classification Database iiPhyClassifier back up and running - October 11 , 2017 at 4:36 EST taxonomic assignment group/subgroup classification virtual gel analysis pattern similarity coefficients. In silico RFLP analysis & automated calculation of similarity coefficients Phytoplasma Vector Database Grapevine Yellows Phytoplasma primers

Phytoplasma Resource Center - USDA Aetiology of sugarcane phytoplasma disease was investigated using nested PCR. Phytoplasma-specific primers (P1/P7 and R16F2n/R16R2) were used to amplify a fragment of the 16S rRNA gene. Sequencing and restriction fragment length polymorphism analyses revealed that the tested phytoplasmas belonged to the 16SrI (aster yellows phytoplasma) group.

Molecular Identification and Phylogenetic Analysis of ... Arocha-Rosete Y, Zunnoon-Khan S, Krukovets I, Crosby W, Scott J, Bertaccini A, Michelutti R (2011) Identification and molecular characterization of the phytoplasma associated with peach rosette-like disease at the Canadian clonal Genbank based on the 16S rRNA gene analysis. Canadian Journal of Plant Pathology

33, 127–134. CrossRef Google Scholar

Phytoplasmas: An Update | SpringerLink

Such a reliable molecular tool for the precise detection of SCGS phytoplasma in the *D. vulgaris* population would help forecast the potential of secondary spread of SCGS in a susceptible sugarcane variety, and may facilitate control of the disease.

Nested PCR assay for detection of sugarcane grassy shoot ...

Phytoplasma-infected sugarcane plants show a proliferation of tillers, which give it typical grassy appearance, hence the name grassy shoot disease. The leaves of infected plants do not produce chlorophyll, and therefore appear white or creamy yellow. The leaf veins turn white first as the phytoplasma resides in leaf phloem tissue.

Sugarcane grassy shoot disease - Wikipedia

Ecological implications from a molecular analysis of phytoplasmas involved in an aster yellows epidemic in various crops in Texas *Phytopathology* . 2003 Nov;93(11):1368-77. doi: 10.1094/PHTO.2003.93.11.1368.

Ecological implications from a molecular analysis of ...

Phytoplasmas are plant-pathogenic bacteria that impact agriculture worldwide. The commonly adopted classification system for phytoplasmas is based on the restriction fragment

length polymorphism (RFLP) analysis of their 16S rRNA genes. With the increased availability of phytoplasma genome sequences, the classification system can now be refined.

Species boundaries and molecular markers for the ...

Simple and economical methods to preserve sugarcane leaf tissues infected with sugarcane white leaf (SCWL) phytoplasma for later detection of SCWL using nested- PCR analysis were described.

Effective methods of preserving SCWL-diseased sugarcane ...

A BLAST search showed that the RWD phytoplasma 16S rRNA gene sequence has >96% nt identity with 16SrXI and 16SrXIV group phytoplasmas and 99% identity with sugarcane white leaf phytoplasma (AB052874), On the basis of the identity of the 16Sr RNA gene 3Fwd/5Rev region, RWD phytoplasma belongs to the 16SrXI group.

Molecular Detection of 16SrXI Group Phytoplasma Associated ...

Sugarcane white leaf (SCWL) is a devastating sugarcane (*Saccharum officinarum*) disease caused by a 16SrXI group phytoplasma, which is extremely harmful to sugarcane production. To determine the occurrence of SCWL in different varieties in 2018, we conducted a field survey and performed nested PCR detection of SCWL phytoplasma in cane-planting ...