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Molecular Characterization Of Trichoderma Isolates

Molecular characterization of Trichoderma isolates by ISSR Marker DOI: 10.9790/2380-08730105 www.iosrjournals.org 4 | Page Molecular characterization The genomic DNA of twelve different isolates of Trichoderma was subjected to PCR amplification

Molecular characterization of Trichoderma isolates by ISSR ...

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A collection of Trichoderma isolates, obtained from different geographic regions in Egypt, with different biocontrol capabilities, were characterized by molecular methods. The RAPD (Random Amplified Polymorphic DNA) procedure with 6 arbitrary

(DOC) Molecular Characterization of Trichoderma Biocontrol ...

Molecular characterization of Trichoderma isolates as biological control 5 th World Congress on Biotechnology. Khalid Abdelateif, Abdel Fattah El-Zanaty and Mahmoud Helwa. ScientificTracks Abstracts: J Biotechnol Biomater DOI: 10.4172/2155-952X.S1.027

Molecular Characterization Of Trichoderma Isolates As ...

2.3 Molecular characterization Genomic DNA was extracted from each isolates of Trichoderma atroviride grown in 1000 ml conical

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flask containing 400 ml of PDB medium. Two agar plugs from actively growing colony of *T. atroviride* were transferred to each flask aseptically in a laminar flow. The flask was incubated at $23\pm 20^{\circ}\text{C}$ for 7 days.

Morphological and Molecular Characterization of ...

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Molecular Characterization Of Trichoderma Isolates By Issr ...

Molecular Characterization of *Trichoderma* spp. Isolates by Internal Transcribed Spacer (ITS) Region Sequencing Technique and its Use as a Biocontrol Agent Ziyaul Haque 1, Mohammed S. Iqbal 1, *, Ausaf Ahmad 1, Mohd S. Khan 2, Jyoti Prakash 1, *

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Molecular Characterization of Trichoderma spp. Isolates by ...

However, molecular characterization of pathogen *A. niger* also carried out to identify genetic variation and diversity, and compared it with various isolates of *Trichoderma*. The accession number of each primer is given in Table 1 .

Molecular and biochemical characterization of Trichoderma ...

Hence, the aim of this study was to identify 12 *Trichoderma* isolates based on their molecular markers and to evaluate the antagonistic activity of these *Trichoderma* isolates against several plant pathogens. The 12 *Trichoderma*/*Hypocrea* isolates were harvested from the rhizosphere of healthy tomato plants in Abha region, Saudi Arabia.

Antagonistic activity and molecular characterization of ...

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Since Trichoderma BCAs use different mechanisms of biocontrol, it is very important to explore the synergistic effects expressed by different genotypes for their practical use in agriculture. Characterization of 16 biocontrol strains, previously identified as "Trichoderma harzianum" Rifai and one biocontrol strain recognized as *T. viride*, was carried out using several molecular techniques.

Molecular characterization and identification of ...

Molecular data has shown that these four biotypes are in fact different species. For instance, Th 1 is *T. harzianum*, Th 2 is *Trichoderma aggressivum*, Th 3 is *Trichoderma atroviride* and Th 4 is *Trichoderma aggressivum f. europaeum*.

Morphological and molecular characterization of fungus

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In this study molecular and biochemical characterization were

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done using twenty four potential isolates of Trichoderma species, based on internal transcribed spacer (ITS 1 & 4), translation elongation factor(*tef* -1) gene region and hydrolytic enzymes.

Molecular and Biochemical Characterization of Potential

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Characterization of 16 biocontrol strains, previously identified as " Trichoderma harzianum " Rifai and one biocontrol strain recognized as *T. viride* , was carried out using several molecular techniques. A certain degree of polymorphism was detected in hybridizations using a probe of mitochondrial DNA.

Molecular Characterization and Identification of ...

MOLECULAR CHARACTERIZATION OF NOVEL ISOLATES OF RHIZOCTONIA SOLANI, TRICHODERMA ATROVIRIDE AND FUSARIUM SPP. ISOLATED FROM DIFFERENT PLANTS AND CUTTING WOODS IN IRAQ

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JANABI1, Z.A. AL-TMEME1, ALAA T.SALIM1 AND MUHAMMAD ASHFAQ2* 1Plant Protection Department, Agriculture College, University of Karbala, Iraq

MOLECULAR CHARACTERIZATION OF NOVEL ISOLATES OF

...

Molecular Characterization and Identification of Biocontrol Isolates of Trichoderma spp. M. R. HERMOSA, I. GRONDONA, E. A. ITURRIAGA, J. M. DIAZ-MINGUEZ, C. CASTRO, E. MONTE,* AND I. GARCIA-ACHA Departamento de Microbiología y Genética, CSIC/Universidad de Salamanca, 37002 Salamanca, Spain
Received 20 September 1999/Accepted 7 February 2000

Molecular Characterization and Identification of Biocontrol ...

Abd Elhamid et al. Molecular Characterization of Egyptian Trichoderma Bioscience Research, 2017 volume 14(4): 1156-1

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166 1160 Figure.1. 650 bp 5.8S-ITS region amplified for a Trichoderma ...

(PDF) Identification and molecular characterization of ...

Morphological characterization The five isolates of *T.harzianum* and seven isolates of *T.viride* examined for this study are listed in Table 1. All the isolates taken for study were already classified as *Trichoderma harzianum* and *Trichoderma viride* through biochemical analysis based on their toxicity over the plant pathogens

Morphological Characterization of Biocontrol Isolates of ...

Morphological, Biochemical and Molecular Characterization of *Trichoderma harzianum* Isolates for their Efficacy as Biocontrol Agents Kamal Sharma Authors' address: Central Tuber Crops Research Institute, Thiruvananthapuram, Kerala 695017, India

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Morphological, Biochemical and Molecular Characterization ...

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