

## Molecular characterization of *Trichoderma* isolates by ISSR Marker

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**Abstract:** Biocontrol agent *Trichoderma* has attained importance for substitute of chemical pesticides and hence an attempt was intended to corroborate the positive relatedness of molecular and morphological characters with antagonistic ability. Twelve isolates belonging to *Trichoderma harzianum* and *Trichoderma viride* were assessed for their antagonistic effect on *Fusarium oxysporum* F.sp. *lycopersicis* and *Nanthomonas campestris*, *Py.vesicatoria*. *Trichoderma harzianum* isolates were more aggressive than *T. viride* isolates. The dataset generated through morphological characters and ISSR markers showed a comparable output grouping the isolates of *T. viride* in one cluster and all *T. harzianum* isolates in another cluster. It is obvious from the present study that genetic diversity analysis had a positive correlation with the antagonistic ability of *Trichoderma* isolates. Thus an integrated approach of morphological and molecular markers can be employed to identify a superior strain of *Trichoderma* for its commercial exploitation.

**Key Words:** *Trichoderma*, antagonism, morphological and molecular characters, ISSR.

### I. Introduction

Plant disease epidemics have created an ecologically unbalanced system in modern agriculture. Deterrence of such epidemics for the most part achieved through use of chemical fungicides which have greater repercussion on environment and human health. Also progressive con-frontation in a midst of pathogen resistance to accessible chemical plant protectants has engrossed the need of alternative methods of disease control. Fungi of the genus *Trichoderma* are important biocontrol agents of several soil borne phytopathogens (Benítez et al., 2004).

The *Trichoderma* species serves as a potential alter-native to chemical control measure and growing pathogen resistance crop cultivars. *Trichoderma* is easily identified in culture media, which produces large number of characteristics small, green or white conidia, from phialides present on the profusely or meagerly branched conidiophores. However, the identification of isolates to species level is difficult and confusing due to the complexity and closely related characters of the species. Molecular analysis of several strains revealed that classification based on morphological data has been, erroneous to great extent resulting in re-classification of several isolates and species (Samuels, 1996). *Trichoderma* use different mechanism for control of phytopathogens which includes mycoparasitism, out compete pathogenic fungi for nutrients, secretion for antibiotics and fungal cell wall degrading enzymes (Harman et al., 2004; Renio et al., 2008). Furthermore it is difficult to predict the degree of synergism and the behaviour of a biocontrol agent in a natural pathosystem. Thus the present study was to characterize the cryptic species of *Trichoderma* associated with biological control and to establish the relation between bioefficacy and morphological and molecular characters existed if any.

Currently molecular techniques like DNA sequencing (Apple and Gordon, 1996), Random Amplification of Polymorphic DNA (RAPD) analysis (Woo et al., 1996), Restriction Fragment Length Polymorphism (RFLP) analysis (Meyer et al., 1992), internal transcribed sequences (ITS) of the ribosomal DNA (rDNA) analysis (rDNA-ITS1) and universally primed polymerase chain reaction (UP-PCR) have been used to characterize isolates of *Trichoderma* (Cumagun et al., 1996). Inter simple sequence repeats (ISSR) have been used as another effective method to characterize genetic variability. Since the evolutionary rate within ISSR is considerably higher than other types of DNA, the likelihood of finding poly-morphism is greater compared to RAPD (Charlesworth et al., 1994).

### II. Material And Methods

#### Isolation and identification of *Trichoderma*

Soil samples were collected from the different tomato fields in 10 districts of western Maharashtra. A total number of twelve isolates of *Trichoderma* species was isolated and identified on potato dextrose agar (PDA). The identification of *Trichoderma* isolates were confirmed both by colony characters and microscopic characters as given by Rifai (1969).

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## **Table of Contents Molecular Characterization Of Trichoderma Isolates By Issr**

1. Understanding the eBook Molecular Characterization Of Trichoderma Isolates By Issr
  - The Rise of Digital Reading Molecular Characterization Of Trichoderma Isolates By Issr
  - Advantages of eBooks Over Traditional Books
2. Identifying Molecular Characterization Of Trichoderma Isolates By Issr
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Molecular Characterization Of Trichoderma Isolates By Issr
  - User-Friendly Interface
4. Exploring eBook Recommendations from Molecular Characterization Of Trichoderma Isolates By Issr
  - Personalized Recommendations
  - Molecular Characterization Of Trichoderma Isolates By Issr User Reviews and Ratings
  - Molecular Characterization Of Trichoderma Isolates By Issr and Bestseller Lists
5. Accessing Molecular Characterization Of Trichoderma Isolates By Issr Free and Paid eBooks
  - Molecular Characterization Of Trichoderma Isolates By Issr Public Domain eBooks
  - Molecular Characterization Of Trichoderma Isolates By Issr eBook Subscription Services
  - Molecular Characterization Of Trichoderma Isolates By Issr Budget-Friendly Options

6. Navigating Molecular Characterization Of Trichoderma Isolates By Issr eBook Formats
  - ePub, PDF, MOBI, and More
  - Molecular Characterization Of Trichoderma Isolates By Issr Compatibility with Devices
  - Molecular Characterization Of Trichoderma Isolates By Issr Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Molecular Characterization Of Trichoderma Isolates By Issr
  - Highlighting and Note-Taking Molecular Characterization Of Trichoderma Isolates By Issr
  - Interactive Elements Molecular Characterization Of Trichoderma Isolates By Issr
8. Staying Engaged with Molecular Characterization Of Trichoderma Isolates By Issr
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Molecular Characterization Of Trichoderma Isolates By Issr
9. Balancing eBooks and Physical Books Molecular Characterization Of Trichoderma Isolates By Issr
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Molecular Characterization Of Trichoderma Isolates By Issr
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Molecular Characterization Of Trichoderma Isolates By Issr
  - Setting Reading Goals Molecular Characterization Of Trichoderma Isolates By Issr
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Molecular Characterization Of Trichoderma Isolates By Issr
  - Fact-Checking eBook Content of Molecular Characterization Of Trichoderma Isolates By Issr
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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web tête du pharaon houni iii e dynastie brooklyn museum le terme pharaon de l égyptien ancien per aâ grande maison désigne les rois et reines de l Égypte antique les noms de 345 pharaons nous sont parvenus grâce à de multiples attestations dont des listes royales compilées par les scribes égyptiens

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web sep 6 2023 e fubieron cõ el todos fos vafallos de pharaon los mayores de su cafa de pharaon todos los mayores de egypto and all of pharaoh s vassals went forth with him the elders of the house of pharaoh and all the elders

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web pharaoh ' f ær ʊ s also ' f eɪ r ʊ s egyptian pr ꞥꞥ coptic ꞥꞥ ꞥꞥ romanized pərro biblical hebrew ꞥ ꞥ ꞥ par'ō is the vernacular term often used for the monarchs of ancient egypt who ruled from the first dynasty c 3150 bc until the annexation

of egypt by the roman empire in 30 bc however regardless of gender king was the term

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web jun 11 2022 narmer était le nom du premier pharaon de la i re dynastie thinite et ménès était un titre honorifique signifiant celui qui perdure la vie et la mort du premier pharaon il reste difficile de déterminer des détails précis concernant la vie de narmer

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web the title pharaoh is used for those rulers of ancient egypt who ruled after the unification of upper and lower egypt by narmer during the early dynastic period approximately 3100 bc however the specific title was not used to address the kings of egypt by their contemporaries until the new kingdom s 18th dynasty c 1400 bc along with the title

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web old english pharao pharaoh from latin pharaon pharao same meaning from greek pharaō same meaning from hebrew par ōh pharaoh of egyptian origin

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web sep 14 2023 pharaon archaic etymology from middle english pharao also as pharaon farao faraon etc from old english pharao from late latin pharaō from ancient greek Φαραώ pharaō from hebrew פַּרְוֹ פַּרְוֹ פַּרְוֹ פַּרְוֹ par ōh from egyptian pr ꜥꜣ palace pharaoh literally pr house ꜥꜣ great big

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web le mot pharaon vient de la version grecque de la bible où il apparaît dans la vulgate genèse xii 15 sous la forme Φαραώ pharao les hébreux s étaient contentés de transcrire à leur manière le mot composé égyptien per aâ

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web cette page propose une liste non exhaustive des pharaons de l Égypte antique classés par ordre alphabétique un même souverain peut être présent plusieurs fois dans cette liste sous ses différents noms nom égyptien nom grec transcriptions multiples la position dans la dynastie peut être précisée avec m ou t entre parenthèses

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web pharaon tiếng copt פַּרְוֹ פַּרְוֹ pərro phiên âm tiếng việt pharaông trong tiếng ai cập cổ có nghĩa là ngôi nhà vĩ đại là tước hiệu chỉ các vị vua của ai cập cổ đại từ vương triều thứ nhất cho đến khi bị Đế quốc la mã thôn tính năm 30 tcn

antike pharaonen antike geschichte planet wissen - Jan 11 2023

web die pharaonen galten im alten Ägypten als fleischgewordene götter auch nach ihrem tod sollten sie weiter aus dem jenseits über ihr volk wachen dafür bauten ihre untertanen ihnen monumentale bauwerke von götz bolten alleinige herrscher über Ägypten das alte reich um 2707 bis 2170 vor christus

*pharaoh definition history facts britannica - Jul 17 2023*

web sep 18 2023 pharaoh from egyptian per 'aa great house originally the royal palace in ancient egypt the word came to be used metonymically for the egyptian king under the new kingdom starting in the 18th dynasty 1539 1292 bce and by the 22nd dynasty c 945 c 730 bce it had been adopted as an epithet of respect it was never the king s