

Antioxidant Activity Of Endophytic Fungi Isolated From

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Endophytes batch 25 Endophytic fungi isolation and Studying its potential against microbes Project Proposal: Isolation and Characterisation of Fungal Root Endophytes from Sweet Potato **Antioxidant Assay Principle** **u0026** **Procees** **(DPPH** **u0026** **H2O2)**: **Dr. Bhushan P Pimple** **Webinar: Endophytes to Increase Sustainability and Disease Resistance****Secondary metabolites in fungi** Plants benefit from endophytic action: enhancement of predator activity, **German subtilis** **Mycology Lab Practical 2: Isolation of endophytic fungi** **Mycology 6** **Sources for Endophytes isolation** **Medicinal plants** **Grass** **Mangroves** **Ph.D** **Rohit Shankar Mane** **Fungal Endophytes** **A taxol-producing endophytic fungi** **Isolation of Xylella fastidiosa from plant leaf tissues** **Beneficial Effects of Continual Chaga Consumption** **The Magical Birch Polypore** **Isolation of fungus from diseased fruit** **Health Benefits Of Chaga Mushroom** **What is Fermentation?** **By Bill Mollison, David Holmgren** **Slide culture technique—microculture of filamentous fungi in mycology (molds)** **Forest Pathology – transferring fungal cultures** **How to plate a fungal culture on a petri dish** **Mycoerhizal Fungi Animation** **Plant Diseases-Bacterial vs. Fungal #1057 (Air Date 7-8-18)** **MYCOLOGY:4** **Methods to Isolate Endophytic Fungi** **[Endophytes]** **CAR-NET** **M.Sc** **Ph.D** **Rohit Shankar Mane** **MYCOLOGY 2** **Endophytic Fungi** **[CAR-NET]** **B.Sc** **M.Sc** **Ph.D** **Rohit S Mane** **Endophytes** **Western Ghats** **Mycology "PLANT ENDOPHYTES: A TREASURE OF BIOACTIVE METABOLITES"** **Endophytic Fungi of the Juniper Tree and the Quest to Save Oak Trees** **Characterization of Endophytic Fungi**, **Dr.S.K.Singh, Principal Scientist, ARI, Pune** **Endophytic Bacteria and Fungi in Hemp** **What is Chaga? Learn Why It's a Top Superfood Mushroom Flora (OST)—Endophytic Fungi** **Antioxidant Activity Of Endophytic Fungi** **The antioxidant activity of the endophytic fungi extracts was evaluated by the DPPH, FRAP and β -carotene bleaching. The antibacterial activity of the endophytic fungi extracts was tested against six human pathogenic strains, being three strains ATCC and three hospital: Staphylococcus aureus, Klebsiella pneumoniae and Salmonella enteritidis.**

Antioxidant and antibacterial activity of— **ScienceDirect**

There is 22% of endophytic fungi extract isolated from five Garcinia species plants exhibited antioxidant activities [26] . Endophytes of Salvadora oleoides, Tabebuia argentea showed antioxidant potential in different assays [27,28] . The endophytic fungi of Nerium oleander L. and liverwort Scapania verrucosa were shown to have excellent antioxidant capacity [29,30] .

In vitro antioxidant activity and total— **ScienceDirect**

In this study, we isolated an endophytic fungus from the leaves of Otoba gracilipes, a medicinal tree from a tropical rainforest in Colombia. Following isolation and cultivation, we evaluated its extracellular crude extract for antioxidant activity.

Antioxidant activity of exo-metabolites produced by—

semisolid powder of each endophytic fungus was tested for antioxidant activity. DPPH free radical scavenging activity: Endophytic ethanolic fungal extracts at 500 g concentrations were used for DPPH assay. DPPH (1,1-diphenyl-2-picrylhydrazyl) is a stable, nitrogen-centered free radical which produces violet color in ethanol solution.

Antioxidant Activity of Endophytic Fungi Isolated from—

Among the endophytes, Aspergillus nomius showed the highest TPC [72.71±1.67 µg GAE (gallic acid equivalent) /mg dry weight of fungi] and antioxidant activity for DPPH free radical scavenging assay (68.86±0.19%).

Total Phenolic Content and In vitro— **eureka.selet.com**

antioxidant activity of the endophytic fungus isolated from F. napiformePsidium guajavaL. Studies in Fungi 5(1), 332–352, Doi 10.5943/sif/5/1/15. Abstract . The bioactive secondary metabolite from the endophytic fungus s . napiformeFusarium, was evaluated for the cytotoxic effect and antioxidant activity. The total antioxidant capacity (TAC) of

Chemical compositions, cytotoxicity and antioxidant—

Endophytic fungi from mangroves viz, Phomopsis amygdale, Trichoderma sp and Alternaria sp have been reported to show high antioxidant activities against various free radicals which go in line with the result of the present study [22,23,18].

Antibacterial and antioxidant potential of endophytic—

Antioxidant activity of exo?metabolites produced by Fusarium oxysporum: An endophytic fungus isolated from leaves of Otoba gracilipes 1 INTRODUCTION. Endophytic fungi are microorganisms that grow inside plant tissues without causing any adverse effects... 2 MATERIAL AND METHODS. Fresh and healthy ...

Antioxidant activity of exo?metabolites produced by—

Antioxidant activity of exo-metabolites produced by Fusarium oxysporum: An endophytic fungus isolated from leaves of Otoba gracilipes. Caicedo NH (1), Davalos AF (2), Puente PA (3), Rodríguez AY (4), Caicedo PA (2).

Antioxidant activity of exo-metabolites produced by—

2.5 | Antioxidant activity assay of fungal crude extracts The antioxidant potential of EPS' crude extracts was assessed by free radical scavenging using a DPPH assay following Prihantini and Tachibana (2017). Correspondingly, we used 1,1-diphenyl-2-picryl-hydrazyl (DPPH), a stable synthetic free radical widely used to eval-

Antioxidant activity of exo?metabolites produced by—

There are large number of bioactive compounds that have been isolated and identified from endophytic fungi which has various biological activities such as antioxidant, anticancer, antiviral, immunomodulatory, antitubercular, insecticidal and antiparasitic activities.

In vitro antioxidant and antibacterial activity of—

medicinal plants and their endophytic fungi Syzygium samarangense leaves was fractionated by maceration method using gradient solvent i.e. n-hexane, ethyl acetate, and methanol. The antioxidant activity of the leaf fractions was determined using 1,1-diphenyl-2-picryl hydrazyl (DPPH) method.

Antioxidant Activity of L. and Their Endophytic Fungi

The ethyl acetate extracts of all endophytes were obtained. The ethyl acetate extracts were subjected to study antibacterial and antioxidant activities. The ethyl acetate extract of the Arthrinium sp. MFLUCC16-1053 showed activity against both gram-positive and

Antibacterial secondary metabolites from an endophytic—

Antioxidant activity of endophytic fungi from P. incarnata DPPH is a relatively stable radical and widely used to evaluate the antioxidant activity of several biological samples. The ethyl acetate and butanolic fraction of all five promising fungi were evaluated for their antioxidant activity in different concentrations (0.25, 0.5, 1, 2 and 5 mg mL⁻¹) .

Endophytic fungi from Passiflora incarnata— **an—**

showed promising antioxidant activity. Similarly, graphislactone A, a potent antioxidant agent, was identi?ed as a phenolic metabolite from the endophytic fungus Cephalosporium sp., that resided in Trachelospermum jasminoides.

Antiviral and Antioxidant Potential of Fungal Endophytes—

Asymptomatic fungi as mediators can produce antioxidants that can interrupt the chain reaction of ROS to help host plants respond to various biotic and abiotic stresses [31, 32]. As a result, some endophytic fungi with scavenging ROS activity in vitro are isolated from special antioxidant plants [33].

Diversity and antioxidant activity of culturable—

Four endophytic fungi have been tested for antioxidant properties using different assays: DPPH radicalscavenging activity, ferric reducing antioxidant power (FRAP) and ferrous ion chelating...

Antioxidants and Phytochemical Analysis of Endophytic—

Antioxidant activity test showed that ethyl acetate extract of endophytic fungi BJA-1 has the highest value. Molecular identification of BJA-1 shows high homology with Lasiodiplodia venezuelensis strain CBS 129753.

Antioxidant Activity of Syzygium samarangense L. and Their—

The endophytic fungi used in this study were obtained from leaves of this plant. 13 strains were selected to obtain hydroethanolic extracts and were submitted to hydroalcoholic extraction and evaluated for antioxidant activity by DPPH (2,2-difenil-1-picrilhidrazil) and FRAP (ferric reducing antioxidant power), and all of the fungi had positive results.

Chemical Assessment and Antimicrobial and Antioxidant—

Four different mangrove species and the predominant endophytic fungus Aspergillus fl avus were analyzed using various in vitro assay systems (such as iron chelating capacity, reducing power, and...

Antioxidant Activity of Endophytic Fungi Isolated From

The purpose of this research was to isolate bioactive compounds from endophytic fungi isolated from Lagerstroemia speciosa Linn. leaves. Fungal isolate K_BK5 was selected for bioactive compounds due to this isolate produced active compounds against Bacillus subtilis ATCC 6633. Based on morphology, the fungal isolate K_BK5 was identified as Mycelia sterilia. Based on nucleotide sequencing of ITS region, it was closely related to Fungal endophyte MS6 IS133. In this study we investigated for secondary metabolites of fungal isolate K_BK5. Chromatographic techniques and crystallization method were used to purify bioactive compounds from sabourauds dextrose culture broth and mycelia. Two compounds and two mixtures were isolated and identified. The structures of these compounds were elucidated using their physical and chemical properties, spectral data and x-ray crystallographic analysis and comparison with literatures. Three compounds were triglycride (mixture 1), deoaustrocoitrubin (mixture 2), austrocoitrinin (compound 1) and 1,4,6,7,9-Pentahydroxy-2-methoxy-7-methy-5,6,7,8,9-hexahydroantiracene-10(10aH)-one (compound 2). The pure compound and mixture were tested for antioxidant activity. Deoxyaustrocoitrubin and austrocoitrinin showed high potentiality of antioxidant activity with EC[subscript 50] 30.17 and 23.91 respectively. Deoaustrocoitrubin inhibits B. subtilis with the MIC value of 250 microgram/ml.

Endophytic fungi are important biotechnological tools because they produce many secondary metabolites. However, to access this important source of bioactive molecules, it is essential to explore the diversity of endophytic fungi and catalog their species richness in different ecosystems. This book reviews the diversity, characterisation and biocontrol of endophytic fungi.

New techniques; Ecology of epiphytic fungi; Endophytic leaf fungi; Plant-pathogenic and saprophytic prokaryotes; Biological control on aerial plant surfaces.

This book highlights the latest international research on different aspects of medicinal plants and fungi. Studies over the last decade have demonstrated that bioactive compounds isolated from medicinal fungi have promising antitumor, cardiovascular, immunomodulatory, anti-allergic, anti-diabetic, and hepatoprotective properties. In the light of these studies, the book includes chapters (mostly review articles) by eminent researchers from twelve countries across the globe working in different disciplines of medicinal plants and fungi. It discusses topics such as the prevention of major neurodegenerative and neurotic mechanisms by Centella asiatica; the medicinal properties and therapeutic applications of several mushrooms species found in different parts of the world; and fungal endophytes as a source of bioactive metabolites including anticancer and cardioprotective agents. There are also chapters on strategies for identifying bioactive secondary metabolites of fungal origin; the use of genomic information to explore the biotechnological potential of medicinal mushrooms; and solid state fermentation of agro-industrial and forestry residues for the production of medicinal mushrooms. It is a valuable resource for the researchers, professionals and students working in the area of medicinal plants and fungi.

A comprehensive overview of both traditional and current knowledge on the health effects of plant based antioxidants, this book reviews medicinal and aromatic plants from around the world. It covers the different sources of antioxidants including essential oils, algae and marine microorganisms, as well as the role of abiotic and biotic stresses, endophytes, transgenic approaches in scavenging ROS and antioxidant plants used in different therapeutic systems.

New and Future Developments in Microbial Biotechnology and Bioengineering: Recent Advances in Application of Fungi and Fungal Metabolites: Applications in Healthcare presents an account of recent development and applied aspects of fungi and its metabolites in the healthcare sector. Chapters are written by eminent researchers, emphasizing the incredible role of fungi and its metabolites in the field of medicine. This book offers reference material to all mycologists working on the exploration and usage of medicinal aspects of fungi and fungal metabolites. Introduces the aspects and advances of fungi and fungal metabolites in healthcare Includes a description of traditional uses and modern practices on how to harness the potential of fungi and its metabolites in healthcare applications Provides details surrounding the use of fungi and its metabolites in medical purposes Describes potential manifold prospects of fungi and fungal metabolites

This book describes the various therapeutic and commercial applications of compounds produced by endophytes. Endophytes are microorganisms that reside in the living internal tissues of plants without showing any apparent symptom of their presence. During their life cycle, they establish a symbiotic or parasitic relationship with the host plant. The book discusses different kinds of compounds that these endophytes produce, and their potential properties such as antimicrobial, anti-oxidative, anti-inflammatory, anticancer, neutraceutical, immunomodulatory etc. Other prospects of antophytic biology such as fungi of wild and domesticated crop plants and their applications in sustainable agriculture have also been included. The book also provides details about various techniques used in endophyte research, metabolite detection and bioactivity-based assays to explore endophytes. Endophytes with phytohormones?producing potential and their role in plant—microbial interactions under stress are also discussed. The book also highlights novel strategies to tap into the hidden potential of endophytic fungi for the production of novel biomolecules using an integrated approach. These microorganisms have attracted a lot of scientific attention worldwide because of their huge potential for novel phytochemicals, pharmaceuticals and lead compounds. Hundreds of new novel endophytic fungi have been isolated, identified and systematically studied in last decade. However, this is the first of its kind, systematic compilation of potential biotechnological applications of endophytic compounds. Chapter contributions from groups across the globe make this book very up-to-date and informative. This book is very useful and interesting for students and researchers in the field of microbiology, plant sciences, mycology and pharmacology. It is also helpful for industry experts working on developing novel compounds.

This book provides an up-to-date treatment of antioxidant and bioicidal compounds mainly from Latin American plants. New antimicrobials, insecticides and antioxidants are compiled in a single source for the first time based on the research and knowledge of several internationally renowned research groups. This book is organized in three sections: Part I provides a general overview and perspectives on antioxidant, medicinal and bioicidal plant compounds; Part II provides information on plant antioxidants isolated from a wide range of species; and Part III describes insecticidal, antimicrobial and other bioicidal activities based on peptides, phytoecdysteroids, alkaloids, polyphenols, terpenoids and other allelochemicals.

This book is a printed edition of the Special Issue "Fungal Endophytes in Plants" that was published in JoF

This reference work presents an authoritative review of endophytes and their applications to human welfare. Endophytes have become a class of interesting and curious microorganisms due to their intimate intra- and intercellular association with plants for competence, survival and reproduction. They can be bacteria or fungi, and they are usually non-pathogenic to their host. Endophytes have important applications in agriculture and industry, namely, they can help with plant growth, act as biocontrol agents and biosurfactant and secondary metabolite producers, and they are also rich sources of bioactive natural products. Novel and beneficial effects of endophytes are constantly emerging, and this book, divided into four sections, provides readers with the latest developments in this fast expanding field. In the first section, readers will discover the biology of the major groups of endophytes, followed by a summary of conventional and molecular tools for endophytes' identification in Section II. The production of high-value metabolites by endophytes will be explored in the third section of this book, and in the final section, readers will find several case studies, examples and prospects for endophytes' application in agriculture and industry. Written by leading international authors, this reference work will appeal to a wide readership, from students and researchers in the field of botany, biotechnology and agriculture to professionals interested in the production and applications of endophytic metabolites.