

Antioxidant Activity Of Endophytic Fungi Isolated From

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[MYCOLOGY:2|Endophytic Fungi|ICAR-NET|B.Sc|M.Sc|Ph.D| Rohit S Mane|Endophytes| WesternGhats|Mycology \u201cPLANT ENDOPHYTES: A TREASURE OF BIOACTIVE METABOLITES\u201d 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 \(OST\) \u2013 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.

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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] .

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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.

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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.

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

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antioxidant activity of the endophytic fungus isolated from F. napiformePsidium guajavaL. Studies in Fungi 5(1), 332\u2013352, 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

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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 ...

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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), Rodr\u00edguez AY (4), Caicedo PA (2).

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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-

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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-picrylhydrazyl (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, graphis lactone A, a potent antioxidant agent, was identified 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 radical scavenging 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-diphenyl-1-picrylhydrazyl) 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 flavus* were analyzed using various in vitro assay systems (such as iron chelating capacity, reducing power, and...