

Taxol Producing Fungal Endophyte Colletotrichum

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Taxol Producing Fungal Endophyte Colletotrichum

An endophytic fungus, *Colletotrichum gloeosporioides* isolated from leaves of native tree species, *Tectona grandis* was screened for the production of taxol, an anticancer drug. Taxol production was confirmed by methods like Ultra Violet (UV) spectroscopic analysis, Thin layer

Taxol producing fungal endophyte, Colletotrichum ...

Taxol-producing endophytic fungi could be a fascinating reservoir to generate taxol-related drug lead and to elucidate the remained 5 unknown genes or the potential regulation mechanism in the taxol biosynthesis pathway. Keywords: Taxus x media, Paclitaxel, Endophytic fungi, Guignardia mangiferae, Taxol gene cluster

Diversity of endophytic fungi and screening of fungal ...

Primary screening of taxol-producing fungi was carried out based on the presence of *dbat* gene, essential for the taxol biosynthetic pathway. A fungal isolate TPF-06 was screened to be a taxol-producing strain based on the PCR amplification results. It was characterized and identified as *Aspergillus fumigatus* by 18S rRNA (Accession No. KU-837249).

Hyper-production of taxol from *Aspergillus fumigatus*, an ...

In this study, we have used the gene encoding for taxadiene synthase (*ts*) as a molecular marker to screen the fungus (*Colletotrichum capsici*) for taxol production. Presently, most of the available reports support the synthesis of taxol by the fungal endophytes, and only limited reports are available on the production of taxol by plant pathogenic forms of fungi 3 - 6 .

In vitro screening of taxol, an anticancer drug produced ...

An endophytic fungus *Colletotrichum gloeosporioides* (strain JGC-9) was isolated from *Justicia gendarussa*, a medicinal plant and screened for taxol production. The fungus was identified based on...

Isolation of *Colletotrichum gloeosporioides*, a novel ...

Ever since the fungal species *Taxomyces andreanae* was first shown to produce taxol in 1993, many endophytic fungal species have been recognized as taxol accumulators. In this study, we analyzed the taxol-producing capacity of different *Colletotrichum* spp. to determine the distribution of a taxol biosynthetic gene within this genus.

Systematic Analysis of the Anticancer Agent Taxol ...

Both endophyte and yew tree produce similar effective anticancer compounds. However, the endophyte is favoured as taxol can be produced from fermentation of endophyte, rather than from harvesting of the trees. Endophytes are also capable of producing other compounds (e.g., pigments, hormones, vitamins, enzymes), which has various applications.

Tropical plant endophytes yield biologics for medicine ...

The endophytic fungus *phomopsis* produced a fungal taxol, which exhibited an IR peak at 3422 cm⁻¹ that was attributed to the existence of an OH group. In contrast, the peak at 2924 cm⁻¹ shows the stretch resulting from the aliphatic CH. Subsequently, the bands observed at 1724 and 1658 cm⁻¹ show the occurrence of keto groups (C=O).

Mycosynthesis of anticancer drug taxol by *Aspergillus* ...

The Search for a Taxol-Producing Microorganism Among the Endophytic Fungi of the Pacific Yew, *Taxus brevifolia*. ... Radical Scavenging and Antioxidant Activities of Isocoumarins and a Phthalide from the Endophytic Fungus *Colletotrichum* sp.. *Journal of Natural Products* 2011, 74 (1) , 79-81. DOI: 10.1021/np1003752. ... Endophyte Fungal Isolates ...

The Search for a Taxol-Producing Microorganism Among the ...

Research on endophyte-derived bioactive compounds was escalated with the discovery of taxol from endophytic *Taxomyces andreanae*. This anticancer agent was formerly extracted from the Pacific yew tree, and with this discovery, more taxol can be produced without the mass destruction of the yew trees.

Endophytic l-asparaginase-producing fungi from plants ...

Among these 3 taxol-producing fungi, the highest yield of taxol was 720 ng/l by *Guignardia mangiferae* HAA11 compared with those of *Fusarium proliferatum* HBA29 (240 ng/l) and *Colletotrichum gloeosporioides* TA67 (120 ng/l). This is the first report of taxol producer from *Guignardia*.

RESEARCH ARTICLE Open Access Diversity of endophytic fungi ...

Rethinking production of Taxol® (paclitaxel) using endophyte biotechnology Article (PDF Available) in *Trends in Biotechnology* 32(6):304-311 · June 2014 with 794 Reads How we measure 'reads'

(PDF) Rethinking production of Taxol® (paclitaxel) using ...

Taxol is a diterpenoids It can kill tumor cells by enhancing the assembly of microtubules and inhibiting their depolymerisation, which was first extracted from endophyte, *Taxomyces andreanae*...

Taxol (Anticancer Drug) producing endophytic fungi ...

Endophytic fungi form the promising source for the production of novel products with biological activity. Sixty-four fungal morphotaxa were characterized from 12 tree species from Iwokrama Forest...

(PDF) Isolation of Endophytic Colletotrichum ...

Microbial fermentation would be a promising method in the production of taxol at industrial scale. Fungal endophytes have the capacity to produce bioactive compounds and can independently synthesize secondary metabolites similar to those made by the host plants.

Developments in taxol production through endophytic fungal ...

An endophytic fungus *Colletotrichum gloeosporioides* (strain JGC-9) was isolated from *Justicia gendarussa*, a medicinal plant and screened for taxol production. The fungus was identified based on...

(PDF) Isolation of *Colletotrichum gloeosporioides*, a novel ...

Endophytic fungal diversity from young, mature and senescent leaves of *Ocimum basilicum* L. with special reference to taxol production. *Indian J Sci Technol* 2007; 1(1):1-15. 5. Bollon AP, Mu J-H, Sidhu RS. Fungal beta-tubulin genes. *EP* 1163345 A1 2000. 6. Young DH, Michelotti EL, Swindell CS, Krauss NE. Antifungal properties of taxol and various ...

Plant endophytic fungi as a source of paclitaxel in: Herba ...

Isolation of *Colletotrichum gloeosporioides*, a novel endophytic taxol-producing fungus from the leaves of a medicinal plant, *Justicia gendarussa*. *Mycol. Balc.* 5: 1-4.

Induction of Cryptic and Bioactive Metabolites through ...

Taxol, originally isolated from the Pacific yew in Oregon; now also found to be a product of endophytic microbes in other plant species, as a protective agent, although whether the yew source is microbial is still debatable.