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**Novel Antimicrobial Activities Of
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promoting and biocontrol fungus
Trichoderma hamatum GD12 has shown
that ~40 % of the genome is unique to
GD12 compared to its closest relatives,
suggesting enormous genetic potential
to encode novel bioactive compounds
with antimicrobial and PGP activities. It

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is apparent that under axenic

**Novel Antimicrobial Activities of
Trichoderma hamatum GD12 ...**

Antagonistic activities of six
Trichoderma isolates associated with
healthy common bean seeds were
evaluated against both pathogens, *M.*
phaseolina and *R. solani* through a dual

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culture assay. Of them, *Trichoderma* isolate T22 remarkably suppressed the growth of both pathogens (72.42% and 68%, respectively), 5 days after inoculation. Both pathogens were completely overgrown by T22 mycelia, and sclerotia formation by the two pathogens was lacking compared to the control plates, after 8 days.

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Antimicrobial activities of Trichoderma atroviride against ...

In-house genome sequencing of the plant growth promoting and biocontrol fungus *Trichoderma hamatum* GD12 has shown that ~40 % of the genome is unique to GD12 compared to its closest relatives, suggesting enormous genetic

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potential to encode novel bioactive compounds with antimicrobial and PGP activities.

Novel Antimicrobial Activities of Trichoderma hamatum GD12 ...

Antimicrobial activities of Trichoderma atroviride against common. bean seed-borne Macrophomina phaseolina and

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Rhizoctonia solani. Naglaa M. El-Benawya, Gamal M. Abdel-Fattaha, Khalid M. Ghoneemb and Yasser M. Shabanac. aBotany Department, Faculty of Science, Mansoura University, Mansoura, Egypt; bDepartment Seed Pathology.

Antimicrobial activities of

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Trichoderma atroviride against ...

As a well-described volatile product, 6-pentyl- α -pyrone (6-PAP) represents antimicrobial and herbicidal activities through a secondary metabolism in Trichoderma (Galindo et al., 2004). These metabolites have been utilized in different biological processes, including the bio-control of microorganisms with

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their living environments.

**Antiproliferative and Antimicrobial
Activities of ...**

Antimicrobial activity of Trichoderma
harzianum The antimicrobial activity of
this extract was determined by well
diffusion method. Approximately
 1.5×10^8 cells/ml was prepared and about

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1.5 ml of each sample was uniformly spread on Muller Hinton media in glass petri dishes. The plates were left aside for 15 minutes. The wells

**Antimicrobial activity of
Trichoderma harzianum against ...**
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Trichoderma hamatum GD12 Following

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Deletion of Heterochromatin Protein 1 .
By Rebecca Winsbury. Download PDF (4
MB) Abstract. Heterochromatin Protein 1
(HEP1) is a highly conserved, chromatin
re-modelling protein involved in
activation and repression of secondary
metabolite producing gene clusters. ...

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Trichoderma hamatum GD12 ...

There are numerous reports of compounds derived from Trichoderma species with antibiotic activity: volatile (e.g. ethylene, hydrogen cyanide, alcohols, monoterpenes, aldehydes and ketones up to C 4 chain-length), and non-volatile (e.g. peptaibols and diketopiperazine-like gliotoxin and

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gliovirin) compounds.

**Screening of antimicrobial activities
in Trichoderma ...**

Trichoderma sp. has also been reported to produce excessive metabolites with antimicrobial activities (Vinale et al., 2008). This study was investigated to observe the antibacterial potential of T.

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harzianum, isolated from soil of Khyber Pakhtunkhwa, Pakistan, against both phytopathogenic and human pathogenic bacteria.

**Effect of Growth Conditions on
Antibacterial Activity of ...**

Trichoderma spp. are a similar bio-control fungi widely used for multiple

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antimicrobial mechanisms including competition and mycoparasitism. In this study, the liquid co-cultivation of *B. amyloliquefaciens* ACCC11060 and *T. asperellum* GDFS1009 was attempted for the first time.

Co-culture of *Bacillus amyloliquefaciens* ACCC11060 and

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Trichoderma atr oviride were characterized and showed potential antifungal and antibacterial activity, noted through growth inhibition of most fungal and bacterial species (Fig. 7). Moreover, we ...

Mycogenic Silver Nanoparticles

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From Endophytic Trichoderma ...

The crude ethyl acetate extracts of marine derived Trichoderma sp., exhibited a promising anti microbial activity against both the human and fish pathogens in a dose dependent manner. Comparing to both, the crude extract showed potential activities against human pathogens rather than fish

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pathogens.

**Antimicrobial activity of crude
extracts from Mangrove ...**

In this book chapter is highlighted the variety of volatile compounds isolated from species of Trichoderma, to emphasis their biological activities and general classes of these compounds.

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9- epi -Viridiol, a novel cytotoxic furanosteroid from ...

Due to its efficient broad-spectrum antimicrobial activity, *Trichoderma* has been established as an internationally recognized biocontrol fungus. In this study, we found and identified a novel strain of *Trichoderma asperellum*,

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named GDFS1009.

**Identification of a novel fungus,
Trichoderma asperellum ...**

Trichoderma koningi i. Oudem isolated from surface sterilized leaves and root of . Melia azedarach . L. and exhibited significant inhibitory activity on the test microorganism by using agar diffusion

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method. The strongest antimicrobial activity was exhibited by . Aspergillus flavus. against . Staphylococcus aureus. where as also in . Trichoderma koningii

In vitro Antimicrobial Activities of Endophytic Fungi ...

As a well-described volatile product, 6-pentyl-a-pyrone (6-PAP) represents

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antimicrobial and herbicidal activities through a secondary metabolism in *Trichoderma* (Galindo et al., 2004). These metabolites have been utilized in different biological processes, including the bio-control of microorganisms with their living environments.

Frontiers | Antiproliferative and

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Antimicrobial Activities ...

Many different strains of the genus *Trichoderma*, in addition to a direct activity against phytopathogens, are well-known producers of secondary metabolites and compounds that substantially affect the metabolism of the host plant. Harzianic acid is a *Trichoderma* secondary metabolite,

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showing antifungal and plant growth
promotion activities.

**Harzianic acid: a novel siderophore
from Trichoderma ...**

Novel green biomimetic approach for
synthesis of ZnO-Ag nanocomposite;
antimicrobial activity against food-borne
pathogen, biocompatibility and solar

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photocatalysis. Scientific reports 9 , 1-15
...

**Photocatalytic dye degradation and
antimicrobial ...**

In vitro Evaluation of Antibacterial
Activity of Various Crude Leaf Extracts of
Indian Sacred Plant, Ocimum sanctum L.
The medical world is on an immense

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requirement to discover novel antibiotics due to widespread emergence of resistance among microbial pathogens against currently available antibiotics.

Abilities of

Aims: Natural fungal products were screened for antifungal compounds. The mode of action of one of the hits found

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and the taxonomy of the producing organism were analysed. Methods and Results: An extract from a Trichoderma species showed a more potent activity in an agar-based assay against the null mutant fks1::HIS strain than against the wild-type strain, suggesting that it could contain ...

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