

Accepted Manuscript

Isolation and Molecular Characterization of Antifungal Metabolite Producing Actinomycete from Mangrove Soil

Mary Sulakshana Palla, Girija Shankar Guntuku, Murali Krishna Kumar Muthyala, Sirisha Pingali, Prafulla Kumar Sahu

PII: S2314-8535(17)30365-7

DOI: <https://doi.org/10.1016/j.bjbas.2018.02.006>

Reference: BJBAS 254

To appear in: *Beni-Suef University Journal of Basic and Applied Sciences*

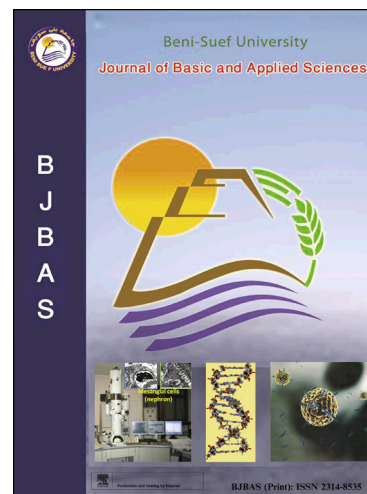
Received Date: 15 September 2017

Revised Date: 27 January 2018

Accepted Date: 28 February 2018

Please cite this article as: M.S. Palla, G.S. Guntuku, M.K. Kumar Muthyala, S. Pingali, P.K. Sahu, Isolation and Molecular Characterization of Antifungal Metabolite Producing Actinomycete from Mangrove Soil, *Beni-Suef University Journal of Basic and Applied Sciences* (2018), doi: <https://doi.org/10.1016/j.bjbas.2018.02.006>

This is a PDF file of an unedited manuscript that has been accepted for publication. As a service to our customers we are providing this early version of the manuscript. The manuscript will undergo copyediting, typesetting, and review of the resulting proof before it is published in its final form. Please note that during the production process errors may be discovered which could affect the content, and all legal disclaimers that apply to the journal pertain.



**Isolation and Molecular Characterization of Antifungal Metabolite Producing
Actinomycete from Mangrove Soil**

Mary Sulakshana Palla^{1*}, Girija Shankar Guntuku¹, Murali Krishna Kumar Muthyala¹,
Sirisha Pingali¹, Prafulla Kumar Sahu²

¹Department of Biotechnology, Andhra University College of Pharmaceutical Sciences,
Visakhapatnam-530013, Andhra Pradesh, India.

²Department of Pharmaceutical Analysis, Raghu College of Pharmacy, Dakamarri,
Bheemunipatnam, Visakhapatnam- 531162, Andhra Pradesh, India.

*To whom correspondence should be addressed.

Mary Sulakshana Palla

Department of Biotechnology, Andhra University College of Pharmaceutical Sciences,
Visakhapatnam-530013, Andhra Pradesh, India

Phone: +91-9848542246

E-mail: mary.pharma14@gmail.com

**Isolation and Molecular Characterization of Antifungal Metabolite Producing
Actinomycete from Mangrove Soil**

Abstract

The main object of the present study is to isolate and characterize the actinomycetes from Koringa mangrove soil samples near Kakinada, Andhra Pradesh, India. Isolated actinomycetes were assessed for antagonistic activity against various bacteria and fungi. The potent strain KMFA-1 having activity against dermatophytes *Candida albicans* and *Pectinotrichum llanense* was characterized. Based on physiological, morphological characteristics and 16s rRNA gene sequencing the isolated strain was identified as *Streptomyces hydrogenans*. Extraction was done with different solvents and the activity was evaluated for each solvent extract. The antibiotic that is responsible for activity is found to be

Download English Version:

<https://daneshyari.com/en/article/7211411>

Download Persian Version:

<https://daneshyari.com/article/7211411>

[Daneshyari.com](https://daneshyari.com)