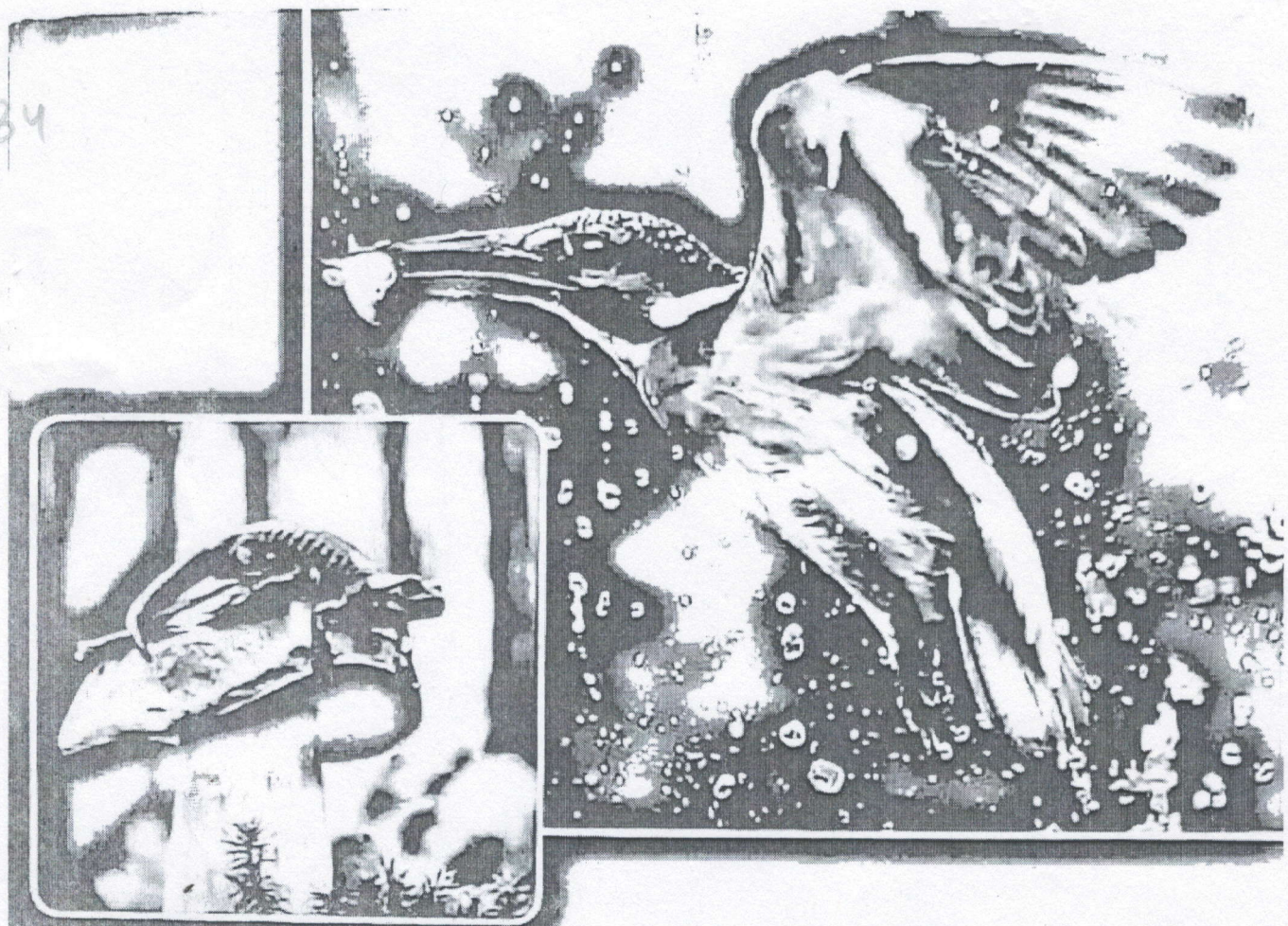


84



# **Biodiversity** and Sustainable Resource **Management** (Basic to Research and Applied)

*Edited by*  
**Dr. Debabrata Das**

**B Bharti**

Copyright © Editor

Title: Biodiversity and Sustainable Resource Management  
(Basic to Research and Applied)

Editor: Dr. Debabrata Das

All rights reserved. No part of this publication may be reproduced or transmitted, in any form or by any means, without permission. Any person who does any unauthorised act in relation to this publication may be liable to criminal prosecution and civil claims for damages.

First Published, 2022

ISBN: 978-93-91681-79-1

Published by :

**Bharti Publications**

4819/24, 2nd Floor, Mathur Lane

Ansari Road, Darya Ganj, New Delhi-110002

Phone: 011-23247537

Mobile : +91-989-989-7381

E-mail : [bhartipublications@gmail.com](mailto:bhartipublications@gmail.com)

[info@bharatipublications.com](mailto:info@bharatipublications.com)

Website : [www.bhartipublications.com](http://www.bhartipublications.com)

Printed in India, by: Sagar Color Scan, Delhi

Disclaimer: The views expressed in the book are of the author and not of the publisher and editor. Author themselves are responsible for any kind of Plagiarism found in the book and any related issues found with the book.

10. Fungal Biofertilizer: Mycorrhiza 120-136  
Dr. Rangnath Aher
11. Wild Life Tourism in India and its Ecological Benefits 137-158  
Dr. Rajani Gautam
12. National Biodiversity Authority: Guidance and Understanding 159-173  
Dr. Bireshwar Bera
13. Avifaunal Diversity and Its Current Status in Terai Region of West Bengal 174-178  
Debarshi Bhattacharyya & Subhasish Kundu
14. Multipurpose Uses of Sericulture for Upliftment of Livelihood in Rural Areas 179-187  
Biswa Ranjan Goswami, Narayan Chandra Saha & Joy Krishna De
15. Biodiversity Loss and Natural Environment: Causes, Consequences and Mitigation of problems 188-207  
Dr. Debabrata Das
16. Arbuscular Mycorrhizal Study: A General Guideline to Beginners 208-218  
Pampi Ghosh
17. Ethno Zoology and Ethno Botany in Exploring Folk Culture through Ages 219-257  
Balaknath Bhattacharyya
18. A Review on Medicinal Plants Associated with Joychandi Hill, Purulia District, West Bengal 258-271  
Dr. Sujit Kumar Mandal, Suparna Roy & Sudeshna Mukherjee

Pampi Ghosh\*

\*Assistant Professor (S-3), Department of Botany, Seva  
Bharati Mahavidyalaya, Kapgari, Jhargram, West Bengal

## Abstract

The present study reflects the study guide to Arbuscular Mycorrhizal Fungi (AMF) at different habitats under varied management regimes. Collected root samples of different plants showed intercellular hyphae, arbuscules, and vesicles round the year but the intensity is different under different ecological regimes. Some of these fungi showed coiled hyphae and infection threads. Spores isolated from rhizospheric soil of studied samples showed spores of *Glomus*, *Acaulospora*, *Gigaspora*, *Paraglomus* and *Scutellospora*, in which any one or more AMF species showed common occurrence. The VA-mycorrhizal root colonization, spore population, species richness and species diversity may alter with seasonal influence. Generally, highest root colonization percentage was recorded during monsoon and highest rhizospheric spore population was recorded during winter. Scientists argued that there are 7 different types of mycorrhizal fungi currently recognised but the present study focused on Arbuscular mycorrhizal fungi (AMF) and its association with some important plants in West Bengal.

Keywords: Arbuscular Mycorrhizal Fungi, Root Colonization, Spore density.



84

# Bharti Publications

Date: 12-04-2022

To,  
**Pampi Ghosh**  
Department of Botany, Seva Bharati Mahavidyalaya,  
Kagari, Jhargram, West Bengal.

**Title of Paper: Arbuscular Mycorrhizal Study: A General Guideline to Beginners.**

Dear Author

Greetings!!

We are pleased to inform you that your paper has been accepted for publication in the proposed edited book titled '**Biodiversity and Sustainable Resource Management (Basic to Research & Applied)**' *Edited by Dr. Debabrata Das*. You are requested to kindly send the Declaration of Authenticity of your manuscript. The Book Shall be published with ISBN in hard cover bound.

Thank you,

**Dr. Debabrata Das**  
*Editor*