

# Call for Book Chapters/Research Papers for Edited Book

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## Recent Trends in Endophyte Research



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# Call for Chapters

## Recent Trends in Endophyte Research

### Aim & Scope

This edited book aims to bring together all the recent and available information on the multifaceted research that unravels the scientific and enigmatic world of plant-microbe interaction. It will be of colossal use to all researchers and passionate teachers who are currently affianced in experimentations with plants and endophytes. Endophytes can be bacteria or fungi and their entry into the host plant, establishment inside the host tissue, mutualistic or symbiotic relationship, their diversity, role in plant growth promotion, involvement in host metabolism, role in bioactivity such as antimicrobial, anti-inflammatory, antioxidant, antidiabetic, anticancer etc, role in stress tolerance, phytoremediation, mitigation of climate change and many more will be discoursed in detail either through methodical reviews or by original research articles. Since many researchers are working in endophytes, this edited book will be looked-for and commendable. The below mentioned chapters are anticipated in this edited book. The title is not final; authors can change the title as per the contents of their chapter. However, the major contents of the chapters in the book will be fixed. New chapter titles that include any recent reports on the research in endophytes are also welcome. Book chapters can be either reviews or unpublished original research articles. Contributors are requested to submit an abstract of one full page with title and tentative subtitles, 4-5 key words and details of all authors including email address of the corresponding author.

### Contents

1. Colonization and establishment of endophytes
2. Endophyte diversity analysis
3. Endophytes as agents of phytoremediation
4. Culture dependent isolation, identification and characterisation of endophytes
5. Plant growth promotion by endophytes
6. A comparison of fungal and bacterial endophytes
7. Endophytes as sources of anti-inflammatory agents
8. Endophytes as sources of antimicrobial compounds
9. Endophytes as sources of anticancer compounds
10. Role of endophytes in stress tolerance
11. Endophytes as source of novel medicinally important compounds
12. Endophytes and mitigation of climate change
13. Metagenome approach for the identification and characterization of endophytes
14. Role of endophytes in plant diseases resistance
15. Endophytes and degradation of xenobiotics
16. Biotechnological applications of endophytes
17. Endophytic bacteria of medicinal plants
18. Endophytic fungi and agricultural crops

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