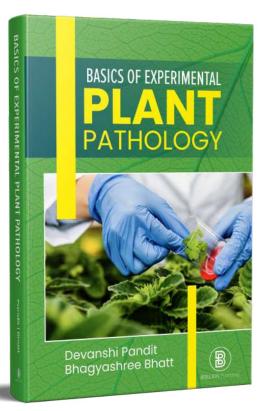
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ISBN: 978-81-970459-3-6 e-ISBN: 978-81-970459-4-3 Pages: 121 2024

Printed Copy Hardbound ₹ 1195/-

## (Contents)

- Acquaintance With Various Plant Pathology Laboratory Equipment and Glass Wares
- Acquaintance with Different Types of Microscopes
- Micrometry
- Counting of Cells/Spores of Microorganisms
- Preparation of Culture Media
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- Collection and Preservation of Disease Samples
- Study of General Characteristics of Fungi
- Isolation of Plant Pathogen- Fungi
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- Preparation and Observation of Microscopic Slide
- Isolation of Plant Pathogen-Bacteria
- Gram's Staining and Identification of Bacteria
- Isolation of Plant Viruses

BASICS OF EXPERIMENTAL PLANT PATHOLOGY

This manual deals with practices in the laboratory for isolation of plant pathogens, use of microscopy for identification of microbes and other techniques involving bioassays. The manual provides a brief about all the basic and important laboratory equipments, their working principle and their use. The procedures to be followed for the handling of micro organisms in the laboratory conditions are also mentioned. It covers the description of symptoms of the plant diseases with images which will helpful to the students in recognising some basic symptoms of plant diseases. It describes use of different types of microscopes to help the students gain knowledge about their use. The protocol for the preparation of culture media, isolation of plant pathogens, isolation of their genomic DNA, methods to assess the efficacy of fungicides and bio control agents are described along with methods for application. The book has been written keeping in view the requirements of undergraduates, post graduates, researchers and teachers in the field of plant pathology and microbiology.

## Devanshi Pandit | Bhagyashree Bhatt

- General Characteristics, Morphology and Classification of Plant Parasitic Nematodes
- Methods for Extraction of Nematode from Soil by Sieving and Decantation Method
- Sampling and Extraction of Nematode from Diseased Plant Material
- Classification of Fungicides
- Preparation of Fungicides (Bordeaux Mixture, Bordeaux paste, Chestnut Compound)
- Methods of Application of Pesticides and Measures for their Safe Use
- Methodology for Bioassay of Fungicides
- Study of Formulations of Fungicides
- Bio-control of Plant Pathogens
- Study of Phanerogamic Plant Parasites
- Isolation of Fungal and Bacterial DNA



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