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**subjects and investigate
specific research topics and
subcategories. It includes a
chapter on grey and
extension literature
covering technical reports
and international issues.**

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Today, many economically important agricultural, horticultural and ornamental crop plants are attacked by various soil borne and foliar diseases, resulting in billions of

dollars in crop losses.

Currently, the most widely used disease management strategy is the use of chemical fungicides.

However, the use of these fungicides has encountered

**problems, such as
development of resistance
by pathogen to fungicides
and rapid degradation of
the chemicals. Other
factors leading to increased
interest in alternatives**

include the increasing cost of soil fumigation, lack of suitable replacements for methyl bromide and public concerns over exposure to fungicides. Both the agriculture and agri-food

**sector are now expected to
move toward
environmentally sustainable
development, while
maintaining productivity.
These concerns and
expectations have led to**

renewed interest on the use of “biologically based pest management strategies”. The green revolution of agriculture brought an enormous increase in food production. It not only

**made the world self
sufficient in food but also
gave the world's scientists
and farmers an immense
amount of self-respect.
Though the green
revolution did increase food**

production, the productivity levels have remained low and increase was achieved at a cost of intensive use of water, fertilizer and other inputs which have caused problems of soil salinity,

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**ground water pollution,
nutrient imbalances,
emergence of new pest and
diseases and environmental
degradation.**

**Covering the research
findings in various aspects**

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of weed biocontrol, this volume explores weed biology and ecology and the economic impacts, effectiveness and practical implications of weed management strategies. It

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**is of interest to researchers
and students in plant and
environmental sciences.
Microbial Plant Pathogens
and Crop Disease
Management
Conserving Plant Genetic**

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**Diversity in Protected Areas
A Technical Manual for
Parasitic Weed Research
and Extension
Methods of Soil Analysis,
Part 2
Basic Plant Pathology**

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Methods

The book presents strategies for the management of crop diseases, and explores means of integrating various strategies to achieve desired levels of suppression. It describes methods of preventing introduction of microbial pathogens, cultural practices that

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suppress pathogen populations, alternative soil treatments, resistant cultivars, biocontrol a

Seed testing centers exist in almost every country in every corner of the globe. More and more students are enrolling in programs that require knowledge of the complex and

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fascinating science of seed pathology. The implications of seed pathology for human health remains an important issue. For all of these reasons and more, this book is a necessary

Biological Techniques is a series of volumes aimed at introducing to a wide audience the latest advances in

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methodology. The pitfalls and problems of new techniques are given due consideration, as are those small but vital details not always explicit in the methods sections of journal papers. In recent years, most biological laboratories have been invaded by computers and a wealth of

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new DNA technology and this will be reflected in many of the titles appearing in the series. The books will be of value to advances researches and graduate students seeking to learn and apply new techniques, and will be useful to teachers of advanced undergraduate courses involving

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practical or project work. This manual describes the broad array of techniques that are used in insect pathology. It will provide biologists, insect pathologists, entomologists, and those interested in biological control, with the necessary information to work on a variety of pathogen groups. This

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book will be an essential laboratory reference for insect pathologists.

Features include: * Step by-step instructions on how to isolate, identify, culture, bioassay and store the major groups of entomopathogens * Details of the practical knowledge needed by beginners to apply the techniques *

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Chapters written by an international group of experts * Discussion of safety testing of entomopathogens in mammals and also broader methods such as microscopy and molecular techniques * Provides extensive supplemental literature and recipes for media, fixatives and stains

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Fungi are one of the important components in the biosphere, ubiquitous in nature and essential in recycling of nutrients in all type of habitats. These organisms play key role as decomposers, phytopathogens, symbionts and in elemental cycles. Despite of their important roles in the

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biosphere, it is important to explore all categories of fungi. This manual is designed to provide detailed information on methods of fungal isolation and identification from various substrates. The book is comprised in three parts where first part contains information about instrumentation,

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techniques, stains, cultures and reagents; second part describe about fungal isolation and identification while, third part depicts about cryopreservation methods, safety norms and regulations in handling fungal specimens as well as about bibliography. Almost all the techniques

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used in isolation and identification of fungi from various substrates viz. soil, water, air, indoor environment, plant tissues, plant rhizosphere and stored materials are provided in complete detail. Identification keys of fungi are also covered and complied in this book. This book has complete basic

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information on experimental mycology which makes it useful for undergraduate, post graduate and beginners in this scientific and interesting field of fungal studies. Laboratory Exercises in Plant Pathology: An Instructional Kit (Teachers Manual)

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Methods in Fungal Biology: A manual
of Laboratory Protocols

CROP DISEASES AND THEIR
MANAGEMENT

Microbial Resource Conservation
Plant Pathologist's Pocketbook

Significant advancements have
been made in pathogen detection

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technologies during the last decade. Indexing of plants and plant parts for the presence of specific pathogens has been most effective in some instances for avoiding and/or controlling disease. The new technologies for detecting

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low levels of pathogens will increase the value of indexing as a tool for plant disease control. Providing an overview of the status of detection technology, this volume is directed not only to scientists and students interested in detection

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technology, but also to those interested in formulating and implementing disease control and quarantine regulations. This book provides a conceptual framework which presents the current scientific literature, state-of-the-art

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assessments, and speculations on future developments and requirements of pathogen indexing methods. Chapters cover the different pathogen groups, review current practices in areas where detection technology has become

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important, and provide perspectives on how indexing technologies can be applied, how well it has worked, and which problems remain.

Statistical treatment of detection limits, sampling strategies, risk assessment, cost, standardization,

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and quality control are also covered.

This book comprises 7 chapters discussing the genetic diversity conservation in protected areas and the management of wild relatives. Some topics covered were: genetic

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reserve management, location and design; plant population monitoring methods for in situ conservation of wild relatives; habitat recovery; and ex situ measures.

The Second Edition of this bestseller brings together basic

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plant pathology methods published in diverse and often abstract publications. The Second Edition is updated and expanded with numerous new figures, new culture media, and additional methods for working with a greater number of

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organisms. Methods are easy to use and eliminate the need to seek out original articles. This reference allows for easy identification of methods appropriate for specific problems and facilities. Scientific names of pathogens and some of

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their hosts are updated in this edition. The book also acts as a research source providing more than 1,800 literature citations. The Second Edition includes chapters on the following: Sterilization of culture apparatus and culture

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media Culture of pathogens with detailed techniques for 61 fungi and selected bacteria Long-term storage of plant pathogens Detection and estimation of inoculum for 28 soilborne fungal pathogens and 5 bacterial

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genera-15 methods for airborne
inoculum and 13 methods for
seedborne pathogens
Establishment of disease and
testing for disease resistance Work
with soil microorganisms Fungicide
evaluation Biological control Bright-

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field microscopy

The third edition of a standard resource, this book offers a state-of-the-art, multi-disciplinary presentation of plant roots. It examines structure and development, assemblage of root

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systems, metabolism and growth, stressful environments, and interactions at the rhizosphere. Reflecting the explosion of advances and emerging technologies in the field, the book presents developments in the study

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of root origin, composition, formation, and behavior for the production of novel pharmaceutical and medicinal compounds, agrochemicals, dyes, flavors, and pesticides. It details breakthroughs in genetics, molecular biology,

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growth substance physiology,
biotechnology, and biomechanics.
Plant Disease Management
Soil Biodiversity in Amazonian and
Other Brazilian Ecosystems
Principles of Seed Pathology
(1987)

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Botrytis: Biology, Pathology and
Control

Biological Safety

***This book (12 chapters)
provides detailed information
on diagnostic systems for
plant pathogenic fungi,***

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***discussing morphological
determinations, culturing,
serological methods, nucleic
acid protocols from PCR to
barcoding and DNA
fingerprinting techniques.
Chapters on diagnostic***

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***systems for fungi from seeds,
guidelines on working with
fungi to maintain bio-
containment and prevent the
release of a pathogen outside
of the laboratory, and
concepts and practices of***

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quality assurance and quality systems for diagnostic laboratories are also included. The combination of information in the narrative portions of chapters and actual protocols makes this a

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***well-balanced book that
readers will find informative
and useful.***

***This book reviews soil
biodiversity and related
ecological processes in one of
the key biodiversity hotspots***

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***of the world, the Amazon, and
nearby regions of Brazil. It
covers both the tropical
savannah and rainforests.
Chapters describe the biology,
ecology, taxonomy,
geographic distribution and***

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sampling methods for the most important soil functional groups. The book is based on a project "Conservation and Sustainable Management of Below-Ground Biodiversity", executed by TSBF-CIAT with

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***co-financing from the Global
Environment Facility (GEF)
and implementation support
from the United Nations
Environment Programme
(UNEP).***

This book attempts to provide

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***to provide concise, critical,
synthetic and up-to-date
coverage of different aspects
of plant disease management.
The first eleven chapters are
devoted to principles and
related aspects and the***

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***remining seven to
management practices based
on them. The book attempts to
capture some of the images of
such rapidly expanding fields
as host-parasite recognition
and biotechnology even at the***

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risk of making the subject a bit conceptual. This book is intended to serve as a text for advanced undergraduate and graduate students of plant pathology and related disciplines and as a reference

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***source for teachers,
researchers, students, and
technologists.***

***This essential handbook for
student and practicing plant
pathologists has been
thoroughly reorganized and***

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***updated since the publication
of the second edition in 1983.***

***The new edition includes:
rearrangement of topics to
facilitate use; 49 short
succinct chapters, each
providing valuable practical***

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information; new topics such as landmarks in plant pathology, survey of sampling procedures, disease evaluation, effects of climate change, biochemical and molecular techniques,

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***epidemic modelling, breeding
for resistance, laboratory
safety and electronic
databases; seven overall
sections covering disease
recognition and evaluation,
causation, diagnosis,***

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***investigation, control, general
techniques, and presentation
of results.***

***Detection and Diagnostics of
Plant Pathogens
Molecular Methods in Plant
Pathology***

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***Principles of Seed Pathology
The Hidden Half, Third Edition
Vegetable Diseases***

*Seed Quality: Basic
Mechanisms and Agricultural
Implications focuses on
various aspects of seed*

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quality and integrates research at basic and applied levels, supporting high-quality seeds as the basis of higher agricultural productivity. With its clear perspective and interdisciplinary focus on

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basic and applied aspects of seed quality, this book is immensely useful to students and teachers in many agricultural and botanical disciplines. Because seed quality is a critical component in the economic

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*considerations of the farmer
and the seedman alike, Basra
looks in-depth at these
aspects of seed production:
seed viability seed health
seed vigor seed testing
variety identification crop
yield seed storage seed*

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*production seed
deterioration seed
treatments Seed quality is
of international agronomic
concern, and the recent
upsurge of interest in seed
quality has accentuated a
new awareness regarding its*

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importance in crop production. This book meets the need for information and could form the basis of long-range planning by policymakers on quality assurance and management programs and in the

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*facilitation of
international trade.
Researchers, students, and
teachers in many
agricultural and botanical
disciplines--seed science
and technology in
particular--will find this*

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*book to be of immense use.
It can be used as a handbook
for those involved in seed
industry and seed testing
services. It is recommended
for international courses in
seed science and technology
and seed training programs.*

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Parasitic weeds of the families Cuscutaceae, Orobanchaceae and Scrophulariaceae are considered to be among the major problems facing agriculture in the Tropics and Subtropics. In the last

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decades, enormous efforts have been made and success achieved by scientists all over the world in gaining a better understanding of their biology and ecology as well as of control methods. However, no substantial

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reduction of infestation has been achieved in the past and control strategies specific to the different parasites, crops and farming systems must be further developed or adapted and realised among a wider

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*farming population with
suitable extension methods.
This `Technical Manual`
provides up-to-date
methodologies for various
aspects of research and
extension related to
parasitic weed species of*

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the genera Striga, Alectra, Orobanche and Cuscuta. It has the intention to support scientists and extension workers of international and national research and extension institutes and universities, who are either

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new to the subject or plan to apply further techniques they are not yet familiar with.

This Book was written to serve those interested in seed pathology. It is designed to serve as a

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*textbook as well as a
reference book for students,
teachers, and researchers,
and for seed health testing,
seed production, and plant
quarantine personnel. It is
to be used as a guide to the
literature. Much of the*

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illustrative material has come from the authors' files used for teaching or from their own research. Teachers will want to supplement this book with examples from their own experience and research ot with information

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and data from other seed pathology programs. The authors hope that this book, in addition to being of value to seed and plant pathologists, will be useful to agriculturalists interested in crop

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production. It was written in part to stimulate research in seed pathology and its importance to the role of seedborne inoculum in the epidemiology and control of plant diseases. This practical handbook

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*describes sampling and
laboratory assessment
methods for the biodiversity
of a number of key
functional groups of soil
organisms, including
insects, earthworms,
nematodes, fungi and*

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bacteria. The methods have been assembled and the protocols drafted by a number of scientists associated with the UNEP-GEF funded Conservation and Sustainable Management of Below-Ground Biodiversity

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*Project, executed by the
Tropical Soil Biology and
Fertility (TSBF) Institute
of the International Center
for Tropical Agriculture
(CIAT). The methods provide
a standardized basis for
characterizing soil*

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biodiversity and current land uses in terrestrial natural, semi-natural and agroecosystems in tropical forests and at forest margins. The aim is to assess soil biodiversity against current and historic

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land use practices both at plot and landscape scales and, further, to identify opportunities for improved sustainable land management through the introduction, management or remediation of soil biota, thus reducing

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the need for external inputs such as fertilizers and pesticides. The book also contains extensive advice on the handling of specimens and the allocation of organisms to strain or functional group type.

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*Published with TSBF-CIAT,
CTA, UNEP and GEF*

*Manual of Techniques in
Insect Pathology*

*Plant Growth Promotion by
Rhizobacteria for*

*Sustainable Agriculture
Proceedings of the XII*

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*International Symposium on
Biological Control of Weeds
A global perspective of
persistent constraints and of
opportunities and strategies
for further increasing the
productivity and use of pea,
lentil, faba bean, chickpea*

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*and grasspea in different
farming systems*

*Research Methods in Plant
Sciences: Allelopathy Vol.
3 (Plant Pathogens)*

*The goal of the Second International
Food Legume Research Conference held
in Cairo, Egypt was to build on the*

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success of the first conference held nearly 6 years earlier at Spokane, Washington, USA. It was at that first conference where the decision was made to hold the second Conference in Egypt and so near the ancestral home of these food legume crops. It has been a long

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held view that the cool season food legumes had their origin in the Mediterranean basin and the Near-east arc, and there is little doubt that food legumes were a staple food of the ancient Egyptian civilization. The cool season food legumes have the reputation

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for producing at least some yield under adverse conditions of poor fertility and limited moisture, i. e. , in circumstances where other crops are likely to fail completely. Yields of cool season food legumes are particularly poor in those regions where they are most important to

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local populations. The influx of more profitable crops such as wheat, maize, and soybeans have gradually relegated the food legumes to marginal areas with poor fertility and limited water which exposes them to even greater degrees of stress. In the past two decades,

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production of food legumes has declined in most of the developing countries while at the same time it has expanded greatly in Canada, Australia, and most notably in Turkey.

The increased emphasis on food safety during the past two decades has

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decreased the emphasis on the loss of food through spoilage, particularly in developed countries where food is more abundant. In these countries spoilage is a commercial issue that affects the profit or loss of producers and manufacturers. In lesser developed countries spoilage

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continues to be a major concern. The amount of food lost to spoilage is not known. As will be evident in this text, stability and the type of spoilage are influenced by the inherent properties of the food and many other factors. During the Second World War a major effort

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was given to developing the technologies needed to ship foods to different regions of the world without spoilage. The food was essential to the military and to populations in countries that could not provide for themselves. Since then, progress has been made in improved

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product formulations, processing, packaging, and distribution systems. New products have continued to evolve, but for many new perishable foods product stability continues to be a limiting factor. Many new products have failed to reach the marketplace because of spoilage

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issues.

The Teacher s manual contains information designed to facilitate use of this kit by instructors and teaching assistants who may not be familiar with a particular plant-pathogen system. Included are additional back-ground

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information for instructors, sources of materials, list of materials needed, step-wise preparation, procedures, suggested schedules for conducting the exercises (including time required), a discussion of expected results, answer to questions and additional references. The listing of

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sources of material provided in case material is not available from a local source or regular supplier.

The large number of molecular protocols available creates a dilemma for those attempting to adopt the most appropriate for streamlined identification and

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detection of fungal pathogens of interest. Molecular Detection of Human Fungal Pathogens provides a reliable and comprehensive resource relating the molecular detection and identification of major human fungal pathogens. This volume contains expert contributions

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from international mycologists involved in fungal pathogen research and diagnosis. Following a similar format throughout, each chapter comprises: A brief review of the classification, epidemiology, clinical features, and diagnosis of one or a group of related

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*fungus species An outline of clinical
sample collection and preparation
procedures A selection of representative
stepwise molecular detection protocols A
discussion on further research
requirements for improving the diagnosis
The book offers an indispensable tool*

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for medical, veterinary, and industrial laboratory scientists working in the area of fungal determination. It also constitutes a convenient textbook for undergraduate and graduate students majoring in microbiology and is an essential guide for upcoming and

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*experienced laboratory scientists wishing
to acquire and polish their skills in
molecular diagnosis of fungal diseases.*

Principles and Practices

Methods in Comparative Plant

Population Ecology

La Grande Motte, France, 22-27 April

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2007

Pathogen Indexing Technologies
Plant Pathology

One of the primary
references on analytical
methods in soil science, Part
2 of the Methods series will

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be useful to all
biogeoscientists, especially
those with an interest in
microbiology or
bioremediation.
This comprehensive and
uptodate text is designed to

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provide information to the readers on all important aspects of plant pathology in a single volume. The information on modern areas like Disease diagnosis, Disease forecasting,

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Biological control,
Epidemiology and
Biotechnology in disease
resistance and safe use of
pesticides have been
covered, giving most recent
concepts. The text is

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illustrated with flow diagrams, line diagrams, photographs and tables for quick and easy understanding of the subject.

This book covers broad

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areas in the conservation of microorganisms. It addresses the short, medium and long-term preservation of agriculturally important microorganisms, as well as culture collections and their

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roles. The respective chapters address topics such as conventional approaches to bacterial, fungal and algal preservation, as well as methods and strategies for preserving recalcitrant

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microorganisms. Readers will also find the latest insights into the preservation of vesicular-arbuscular (VA) fungi and ecology, diversity and conservation of endophytes,

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and entamopathogenic fungi. Microbes of animal and dairy origin, their preservation and biosafety issues are also explored. Microorganisms are the silent and unseen majority of

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life on Earth, and are characterized by a high degree of genetic and metabolic diversity. It is well documented that no branch of science or society is unaffected by microbial

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interventions. Researchers have documented microorganisms from such extreme and unique environments as deserts and hydrothermal vents, and with specific traits that are

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currently being exploited in
agriculture, industry,
medicine and
biotechnological
applications. Such great
potential can only be found
in microorganisms. The aim

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of this book - the first
entirely devoted to the
conservation of
microorganisms, and to
regulatory mechanisms for
access and benefits sharing
as per Biological Diversity

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(BD) Act 2002 – is to
promote awareness of our
world's microbial wealth,
and to introduce readers to
strategies and
methodologies for the
conservation of

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microorganisms, which could ultimately save human life on Earth.

Molecular Methods in Plant Pathology covers methods in phytopathology at the molecular level, including

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PCR techniques, electron microscopy, tissue culturing, and the cloning of disease-resistant genes.

Phytopathologists, botanists, horticulturists, and anyone working in agriculture will

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find this a useful reference
on biophysical, biochemical,
biomolecular, and
biotechnological methods.
Basic Plant Pathology
Methods Plant Pathology
Methods

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Compendium of the
Microbiological Spoilage of
Foods and Beverages
Basic Mechanisms and
Agricultural Implications
Plant Roots
History of Soybeans and

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Soyfoods in Africa
(1857-2019)

*Our dependence on healthy
vegetable crops as a reliable
source of food transcends all
barriers of nation and culture.
Consumers now demand*

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excellent quality from the industry that produces large volumes of high quality vegetables to be sold locally, regionally and shipped internationally. The diseases that affect vegetables compromise such quality and therefore are of

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great importance to grower, shipper, marketer, and consumer. This book focuses primarily on diseases that are caused by pathogens. Chapters dealing with the general principles of the causes,

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*diagnosis and control of
vegetable crop diseases are
followed by crop-based chapters.
Each disease entry includes a
brief introduction to the disease,
detailed description of disease
symptoms, information on the*

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*pathogen and disease
development, and suggestions
on how to manage the problem.
Top quality color photos illustrate
the book throughout. This book is
useful to a range of professionals
including research and extension*

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*plant pathologists; diagnosticians
and plant lab personnel; teachers
of agriculture and related
subjects; university students in
agriculture and related fields;
commercial farmers, vegetable
producers, and farm managers;*

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agriculturalists in the fields of seed production, vegetable breeding, agrichemicals, pest control, marketing, and other subjects; government and regulatory persons dealing with agriculture; serious gardeners

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and hobbyists.

This second edition provides authoritative guidance on research methodology for plant population ecology. Practical advice is provided to assist senior undergraduates and post-

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*graduate students, and all
researchers, design their own
field and greenhouse
experiments and establish a
research programme in plant
population ecology.*

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Pathology in the 21st Century Series, started in the occasion of the IX International Congress of Plant Pathology, Torino, 2008. In conjunction with the Xth International Congress of Plant Pathology, held in Beijing in

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August 2013. Although deriving from a Congress, the book will not have the format of traditional Proceedings, but will be organized as a resource book. It will be based on invited lectures presented at the Congress as

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*well as by other chapters
selected by the editors among
offered papers. This book will
cover a topic very important in
the field of plant pathology,
dealing with detection and
diagnostics. This field of research*

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*is continuously moving forwards,
due to innovation in techniques.
The application of new detection
and diagnostic technologies are
relevant to many applied fields in
agriculture. The different chapters
will provide a very complete*

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*figure of the topic, from general
and basic aspects to practical
aspects.*

*Biological safety and biosecurity
protocols are essential to the
reputation and responsibility of
every scientific institution,*

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whether research, academic, or production. Every risk—no matter how small—must be considered, assessed, and properly mitigated. If the science isn't safe, it isn't good. Now in its fifth edition, Biological safety:

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biosafety and biosecurity within these pages. This book presents the guiding principles of laboratory safety, including: the identification, assessment, and control of the broad variety of risks encountered in the lab; the

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*production facility; and, the
classroom. Specifically,
Biological Safety covers
protection and control
elements—from biosafety level
cabinets and personal protection
systems to strategies and*

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*decontamination methods
administrative concerns in biorisk
management, including
regulations, guidelines, and
compliance various aspects of
risk assessment covering
bacterial pathogens, viral agents,*

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*mycotic agents, protozoa and
helminths, gene transfer vectors,
zoonotic agents, allergens,
toxins, and molecular agents as
well as decontamination,
aerobiology, occupational
medicine, and training A resource*

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for biosafety professionals, instructors, and those who work with pathogenic agents in any capacity, Biological safety is also a critical reference for laboratory managers, and those responsible for managing biohazards in a

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*Sampling and Characterization of
Below-ground Biodiversity*

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Allelopathy is a new field of

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*science, as the term
'Allelopathy' was coined by
Prof. Hans Molisch, a German
Plant Physiologist in 1937.
Till now lot of Allelopathy
research work has been
done in various fields of*

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*Agricultural and Plant
Sciences. However, there is
no compilation of various
Research Methods used.
Every scientist is conducting
research in his own way. It is
causing lot of problems to*

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*researchers working in
underdeveloped/Third World
Countries in small towns
without Library facilities.
Therefore, to make available
the standard methods for
conducting allelopathy*

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research independently, this multi-volume book has been planned. Since allelopathy is multi-disciplinary area of research, hence, volumes have been planned for each discipline. Prof. S.S. Narwal

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*has planned this multi-
volume Book Research
Methods in Plant Sciences:
Allelopathy. Three volumes
(Volume 1. Soil Analysis,
Volume 2. Plant Protection
and Volume 3. Plant*

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*Pathogens) of this Book have
been released during the IV.
International Allelopathy
Conference, 2004 at Hisar
(India). Five volumes
(Volume 4. Plant Analysis,
Volume 5. Physiological*

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Processes, Volume 6.

*Biochemical Processes,
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*Forestry/Agroforestry
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*Isolation, Identification and
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allelochemicals are under preparation. This volume has 11 Chapters, divided in three Sections viz., Entomology, Nematology and Weeds. It provides complete information about the

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*various techniques used for
Allelopathy Research in the
field of Entomology,
Nematology and Weeds. It is
written in a simple and lucid
language. It will be very
useful to undergraduate and*

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*Post graduate students and
Faculty for used in Class
room and Laboratory
experiments and research.*

*We are thankful to Prof. G. S.
Dhaliwal, Department of
Entomology, Punjab*

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*Agricultural University,
Ludhiana and Prof. V.
Mojumder, Division of
Nematology, Indian
Agricultural Research
Institute, New Delhi for Peer
Review of Entomology and*

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*Nematology Manuscripts.
Fungal plant pathogens can
threaten food security,
economic prosperity and the
natural environment.
Changing factors such as
pesticide usage, climate*

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change and increasing trade globalization can bring new opportunities to plant pathogens, and new challenges to those attempting to control their spread. Covering the key

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*techniques used when
working with fungal plant
pathogens, this practical
manual deals with the
recognition of disease
symptoms, detection and
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methods to characterize them, as well as curation, quarantine and quality assurance. It is unique in its practical focus, providing an overview of both traditional and emerging methods and

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*their applications, and
detailed protocols on
techniques such as
microscopy, antibody
detection using ELISA
methods and lateral flow
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Pathogens provides an invaluable guide to investigating fungal plant diseases and interpreting laboratory findings. It is also a useful tool for extension plant pathologists,

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*consultants and advisers in
agriculture, horticulture and
the food supply chain
The book is the result of
intensive work of 43 authors,
all of them leading scientists
in the Botrytis sciences. Each*

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chapter describes a particular aspect of fungal biology and its impact on disease processes and host response. New technologies have arisen that when applied to long-standing

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problems or to test new hypotheses have been most rewarding and many of these are covered in this book. The chapters are cross linked so that readers can follow associated material.

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