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**Introduction
To Fungi 3rd
Edition**

The mysterious world of fungi is once again unearthed in this expansive second edition. This textbook provides readers

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with an all-
embracing view
of the kingdom
fungi, ranging
in scope from
ecology and
evolution,
diversity and
taxonomy, cell
biology and
biochemistry, to
genetics and
genomics,
biotechnology

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and

bioinformatics.

Adopting a
unique systems
biology approach

- and using
explanatory

figures and
colour

illustrations -

the authors
emphasise the

diverse

interactions

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between fungi and other organisms. They outline how recent advances in molecular techniques and computational biology have fundamentally changed our understanding of fungal biology, and have updated

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chapters and references throughout the book in light of this. This is a fascinating and accessible guide, which will appeal to a broad readership - from aspiring mycologists at undergraduate and graduate

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level to those studying related disciplines.

Online resources are hosted on a complementary website.

Fungi: Biology and Applications, Second Edition provides a comprehensive treatment of

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fungi, covering biochemistry, genetics and the medical and economic significance of these organisms at introductory level. With no prior knowledge of the subject assumed, the opening chapters offer a broad

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overview of the basics of fungal biology, in particular the physiology and genetics of fungi and also a new chapter on the application of genomics to fungi. Later chapters move on to include more detailed

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coverage of
topics such as
antibiotic and
chemical
commodities from
fungi, new
chapters on
biotechnological
use of fungal
enzymes and
fungal
proteomics, and
fungal diseases
of humans,

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antifungal
agents for use
in human therapy
and fungal
pathogens of
plants.

This fifth
edition of the
classic textbook
in plant
pathology
outlines how to
recognize,
treat, and

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prevent plant diseases. It provides extensive coverage of abiotic, fungal, viral, bacterial, nematode and other plant diseases and their associated epidemiology. It also covers the

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genetics of
resistance and
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management on
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students can

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large variety of
disease examples
for instructors
to choose for
their course
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Mycology in
Public Health:
Fungi and
Mycotoxins Risk
Assessment and
Management
provides the

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most updated
information on
fungi, an
essential
element in the
survival of our
global ecology
that can also
pose a
significant
threat to the
health of
occupants when
they are present

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in buildings. As the exposure to fungi in homes is a significant risk factor for a number of respiratory symptoms, including allergies and hypersensitivity pneumonitis, this book presents

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information on fungi and their disease agents, important aspects of exposure assessment, and their impacts on health. This book answers the hard questions, including, "How does one detect and measure the

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presence of indoor fungi?" and "What is an acceptable level of indoor fungi?" It then examines how we relate this information to human health problems. Provides unique new insights on fungi and their

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metabolites
detection in the
environmental
and occupational
settings

Presents new
information that
is enriched by
significant
cases studies Mu
lti-contributed
work, edited by
a proficient
team in medical

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and

environmental
mycology with
different
individual
expertise Guides
the readers in
the
implementation
of preventive
and protective
measures
regarding
exposure to

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fungi

Fungi play vital roles in all ecosystems, as decomposers, symbionts of animals and plants and as parasites. Thus their ecology is of great interest. It has been estimated that there may

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be as many as 1.5 million species of fungi, many of which are still undescribed. These interact in various ways with their hosts, with their substrates, with their competitors

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(including other fungi) and with abiotic variables of their environment. They show great variation in morphology, reproduction, life cycles and modes of dispersal. They grow in almost

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every
conceivable
habitat where
organic carbon
is available: on
rock surfaces,
in soil, the sea
and in fresh
water, at
extremes of high
and low
temperature, on
dry substrata
and in concen

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trated

solutions.

Fungal ecology
is therefore an
enormous subject
and its

literature is
voluminous. In
view of this we
have had to be
selective in the
material we have
included in this
book. We have

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chosen to concentrate on subjects in which we have some personal experience through either research or teaching. We preferred to tackle a few subjects in depth instead of attempting to

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cover a wider
range of topics
superficially.

We are conscious
of the extensive
gaps in
coverage: for
example on the
ecology of
lichens, of
fungal plant
pathogens and of
the complex
interactions

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between fungi and animals. It is some justification that book-length treatments of these subjects are available elsewhere.

This reference book includes 24 chapters written by a group of experts in the

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different fields of microfungi and cover a broad range of topics on microfungi. It provides the most updated information on the latest development in systematics and taxonomy of microfungi, new

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techniques which were developed in the last ten years and their application in microfungal research. After the International Code of Nomenclature for algae, fungi, and plants (Melbourne Code)

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was adopted by
the Eighteenth
International
Botanical
Congress
Melbourne,
Australia, July
2011, it has had
a profound
impact on
mycology and its
research. Fungal
nomenclature
changes and its

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significance to fungal taxonomy and naming of microfungi in the future is discussed in detail. Since dual names system for fungi developing both sexual and asexual states, and fungi developing only

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asexual state is no longer available, the first five chapters will clarify some confusion and provides perspective views on the direction for future research. The next nine chapters cover

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microfungi and their ecological roles or functions in the different habitats (air, indoor, aquatic, marine, plants, soils, etc). The remaining 13 chapters cover the relationship of microfungi and humans (good

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and bad) and usage or application microfungi in different industries, such as food, agriculture, forestry, green technology, pharmaceuticals, and medicine, as well as in our daily life. The

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book bridges the gap between basic mycological research and applied mycology and provide readers a unique set of information and knowledge of microfungi generated from multiple angles

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in different
fields of
mycology.
Modern Mycology
is an
established text
that continues
to provide a
comprehensive
introduction to
fungi--a group
of organisms
distinct from
all other forms

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of life. It will appeal to undergraduate students taking courses in microbiology, mycology and biology. This edition has been fully revised and updated to reflect the many exciting developments in

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the field,
notably, those
relating to
understanding
fungal cell
biology and the
application of
fungal molecular
genetics. The
author maintains
the tradition of
clarity and
accessibility
set by previous

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editions, and the text is extensively illustrated with photographs and diagrams. In keeping with modern teaching methods, this textbook adopts a functional approach and emphasizes the behaviour,

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physiology,
activities and
practical
significance of
fungi. The book
contains
extensive
sections on the
fungal pathogens
of plants,
animals and
humans; the
roles of fungi
in major

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environmental processes; and the use of fungi as biological control agents of pests and pathogens. Essential reading for undergraduate students taking courses in microbiology and mycology. Fully

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revised and updated to reflect the many exciting new developments in the field, notably those relating to an understanding of fungal cell biology and the application of fungal molecular genetics. Adopts

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a functional approach in keeping with modern teaching methods.

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(including
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diagrams.

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The ubiquitous fungi are little known and vastly underappreciated. Yet, without them we wouldn't have bread, alcohol, cheese, tofu, or the unique flavors of mushrooms, morels, and truffles. We can't survive without

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fungi. The Kingdom Fungi provides a comprehensive look at the biology, structure, and morphological diversity of these necessary organisms. It sheds light on their ecologically important roles in nature, their

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**fascinating
relationships with
people, plants, and
animals, and their
practical
applications in the
manufacture of
food, beverages,
and
pharmaceuticals.
The book includes
information about
“true” fungi,
fungus-like**

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creatures (slime molds and water molds), and a group of “composite” organisms (lichens) that are more than just fungi. Particular attention is given to examples of fungi that might be found in the home and encountered in

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nature. The Kingdom Fungi is a useful introductory text for naturalists, mycologists, and anyone who wants to become more familiar with, and more appreciative of, the fascinating world of fungi. This book is designed as a laboratory guide

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for the food microbiologist, to assist in the isolation and identification of common food-borne fungi. We emphasise the fungi which cause food spoilage, but also devote space to the fungi commonly encountered in

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**foods at harvest,
and in the food
factory. As far as
possible, we have
kept the text
simple, although
the need for clarity
in the descriptions
has necessitated
the use of some
specialised
mycological terms.
The identification
keys have been**

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designed for use by microbiologists with little or no prior knowledge of mycology. For identification to genus level, they are based primarily on the cultural and physiological characteristics of fungi grown under a standardised set of conditions. The

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microscopic features of the various fungi become more important when identifying isolates at the species level. Nearly all of the species treated have been illustrated with colony photographs, together with

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**photomicrographs
or line drawings.**

**The
photomicrographs
were taken using a
Zeiss WL
microscope fitted
with Nomarski
interference
contrast optics. We
are indebted to Mr
W. Rushton and Ms
L. Burton, who
printed the many**

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**hundreds of
photographs used
to make up the
figures in this
book. We also wish
to express our
appreciation to Dr
D.L. Hawksworth,
Dr A.H.S.**

**Fungi occupy an
important place in
the natural world,
as non-
photosynthetic**

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organisms, they obtain their nutrients from the degradation of organic material. They use many of their secondary metabolites to secure a place in a competitive natural environment and to protect themselves from predation.

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The diverse structures, biosyntheses and biological activities of fungal metabolites have attracted chemists for many years. Fungi are ubiquitous and their activities affect many aspects of our daily lives whether it be

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as sources of pharmaceuticals and food or as spoilage organisms and the causes of diseases in plants and man. The chemistry of the fungi involved in these activities has been the subject of considerable study particularly over the last fifty years.

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Although their ramifications can be large as in the spread of plant diseases, the quantities of the metabolites which could be isolated precluded much chemical work until the advent of spectroscopic methods. Whereas many natural

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products derived from plants were isolated prior to the 1960s on a scale which permitted extensive chemical degradation, this was rarely the case for fungal metabolites. This book is an introduction to the chemistry of fungal

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metabolites. The aim is to illustrate within the context of fungal metabolites, the historical progression from chemical to spectroscopic methods of structure elucidation, the development in biosynthetic

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**studies from
establishing
sequences and
mechanisms to
chemical
enzymology and
genetics and the
increasing
understanding of
the biological roles
of natural
products. The book
begins with a
historical**

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introduction followed by a description of the general chemical features which contribute to the growth of fungi. There are many thousands of fungal metabolites whose structures are known and the book does not aim to list them all as

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**there are
databases to fulfill
this role. The
book's aim is to
describe some of
the more
important
metabolites
classified
according to their
biosynthetic origin.
Biosynthesis
provides a unifying
feature underlying**

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**the diverse
structures of
fungal metabolites
and the chapters
covering this area
begin with a
general outline of
the relevant
biosynthetic
pathway before
presenting a
detailed
description of
particular**

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metabolites.

Investigations into these biosyntheses have utilized many subtle isotopic labelling experiments and compounds that are fungal pigments and those which are distinctive metabolites of the more conspicuous

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Basidiomycetes are treated separately. Many fungal metabolites are involved in the interactions of fungi with plants and others are toxic to man and some of these are described in further chapters. Fungi have the ability to transform

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chemicals in ways which can complement conventional reactions and the use of fungi as reagents forms the subject of the final chapter. This book will be particularly useful to anybody about to embark on a career in chemical

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microbiology by providing an overall perspective of fungal metabolites as well as an essential reference tool for more general chemists.

The importance of metals in biology, the environment and medicine has become

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**increasingly
evident over the
last twenty five
years. The study of
the multiple roles
of metal ions in
biological systems,
the rapidly
expanding
interface between
inorganic
chemistry and
biology constitutes
the subject called**

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**Biological
Inorganic
Chemistry. The
present text,
written by a
biochemist, with a
long career
experience in the
field (particularly
iron and copper)
presents an
introduction to this
exciting and
dynamic field. The**

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book begins with introductory chapters, which together constitute an overview of the concepts, both chemical and biological, which are required to equip the reader for the detailed analysis which follows. Pathways of metal

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**assimilation,
storage and
transport, as well
as metal
homeostasis are
dealt with next.
Thereafter,
individual chapters
discuss the roles of
sodium and
potassium,
magnesium,
calcium, zinc, iron,
copper, nickel and**

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**cobalt, manganese,
and finally
molybdenum,
vanadium,
tungsten and
chromium. The
final three
chapters provide a
tantalising view of
the roles of metals
in brain function,
biomineralization
and a brief
illustration of their**

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**importance in both
medicine and the
environment.**

**Relaxed and
agreeable writing
style. The reader
will not only find
the book easy to
read, the
fascinating
anecdotes and
footnotes will give
him pegs to hang
important ideas on.**

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biochemist. Will
enable the reader
to more readily
grasp the
biological and
clinical relevance
of the subject.
Many colour
illustrations.
Enables easier
visualization of
molecular
mechanisms**

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Written by a single author. Ensures homogeneity of style and effective cross referencing between chapters
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Sarah Kidd, Catriona Halliday, Helen Alexiou and David Ellis. 2016.
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edition which includes new and revised descriptions. We have endeavoured to reconcile current morphological descriptions with more recent genetic data. More than 165 fungus species are described,

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**including members
of the Zygomycota,
Hyphomycetes,
Dimorphic
Pathogens, Yeasts
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Susceptibility
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**researchers will
gain a greater
understanding of
the central roles
that soils play in
ecosystem
development and
function. The
authors emphasize
the increasing
importance of soils
as the organizing
center for all
terrestrial**

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**ecosystems and
provide an
overview of theory
and practice of soil
ecology, both from
an ecosystem and
evolutionary
biology point of
view. This volume
contains updated
and greatly
expanded coverage
of all belowground
biota (roots,**

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**microbes and
fauna) and
methods to identify
and determine its
distribution and
abundance. New
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biodiversity and its
relationship to
ecosystem
processes,
suggested
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**Incorporates new
pedagogical
features Combines
theoretical and
practical**

**approaches
The field of
microbiology has
developed
considerably in the
last 20 years,
building
exponentially on its**

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own discoveries and growing to encompass many other disciplines. Unfortunately, the literature in the field tends to be either encyclopedic in scope or presented as a textbook and oriented for the student. Finding its niche between

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these two pol

The roots of most plants are colonized by symbiotic fungi to form mycorrhiza, which play a critical role in the capture of nutrients from the soil and therefore in plant nutrition. Mycorrhizal Symbiosis is

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recognized as the definitive work in this area. Since the last edition was published there have been major advances in the field, particularly in the area of molecular biology, and the new edition has been fully revised and updated to

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**incorporate these
exciting new
developments.
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material Includes
expanded color
plate section
Covers all aspects
of mycorrhiza
Presents new
taxonomy
Discusses the
impact of
proteomics and**

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**genomics on
research in this
area**

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Fungi

Chemistry of Fungi

Mycorrhizal

Symbiosis

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*Biotechnology is
one of the major
technologies of the
twenty-first century.
Its wide-ranging,
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activities include recombinant DNA techniques, cloning and the application of microbiology to the production of goods from bread to antibiotics. In this new edition of the textbook Basic Biotechnology, biology and

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bioprocessing topics are uniquely combined to provide a complete overview of biotechnology. The fundamental principles that underpin all biotechnology are explained and a full range of

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examples are discussed to show how these principles are applied; from starting substrate to final product. A distinctive feature of this text are the discussions of the public perception of biotechnology

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*and the business
of biotechnology,
which set the
science in a
broader context.
This
comprehensive
textbook is
essential reading
for all students of
biotechnology and
applied*

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*microbiology, and
for researchers in
biotechnology
industries.*

*Microbiology in
Clinical Practice
presents the
infections and
syndromes caused
by micro-
organisms. It
discusses the*

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management of infective diseases and aetiological agents. It addresses the latex agglutination, immunofluorescent, monoclonal antibody, and nucleic acid probe investigations. Some of the topics

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*covered in the
book are the
classification and
pathogenicity of
microbes;
classification of
bacteria;
classification of
viruses;
classification of
fungi; general
principles of*

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*antimicrobial
chemotherapy;
antibiotic sensitivity
tests; procedures
in the laboratory for
microbiological
diagnosis; and the
mode of action of
antimicrobial
drugs. The
resistance to
antimicrobial drugs*

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are covered. The microbiological investigations of septicaemia are discussed. The text describes the human immunodeficiency virus infection and AIDS in infants. A study of the congenital

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immunodeficiency and impaired resistance to infection is presented. A chapter is devoted to the predisposing factors for anaerobic infections. Another section focuses on the infections of

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the central nervous system. The book can provide useful information to doctors, pathologists, neurologists, students, and researchers.

This new edition of the universally acclaimed and

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*widely-used
textbook on fungal
biology has been
completely re-
written, drawing
directly on the
authors' research
and teaching
experience. The
text takes account
of the rapid and
exciting progress*

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that has been made in the taxonomy, cell and molecular biology, biochemistry, pathology and ecology of the fungi. Features of taxonomic relevance are integrated with natural functions,

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*including their
relevance to
human affairs.
Special emphasis
is placed on the
biology and control
of human and plant
pathogens,
providing a vital
link between
fundamental and
applied mycology.*

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The book is richly illustrated throughout with specially prepared drawings and photographs, based on living material. Illustrated life-cycles are provided, and technical terms are clearly explained.

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Extensive reference is made to recent literature and developments, and the emphasis throughout is on whole-organism biology from an integrated, multidisciplinary perspective.

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acclaimed and
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textbook on fungal
biology has been
completely
rewritten, drawing
directly on the
authors' research
and teaching
experience. The
text takes account*

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of the rapid and exciting progress that has been made in the taxonomy, cell and molecular biology, biochemistry, pathology and ecology of the fungi. Features of taxonomic significance are

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*integrated with
natural functions,
including their
relevance to
human
affairs."*--BOOK
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*The definitive
guide for
identifying fungi
from clinical
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support your work
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detailed
descriptions of the
major mycoses as
viewed in patients'
specimens by
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step-by-step
process for
identification of
cultured
organisms, utilizing
detailed
descriptions,
images, pointers
on organisms'*

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distinctions, and
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organism's
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