



NOVEDADES BIOLOGIA 2026

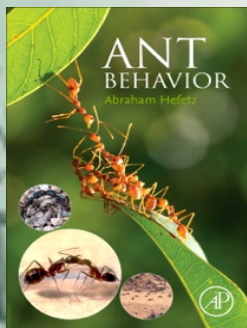
INSTITUTO DE
BIOLOGIA

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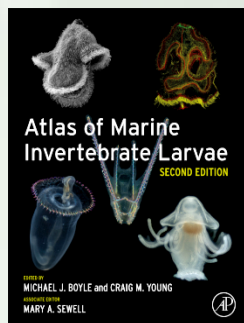
Ant Behavior



1st Edition - September 16, 2025
Academic Press
Author: Abraham Hefetz
Paperback ISBN: 9780443161087

Description
Ant Behavior utilizes evolution as a framework for comprehending the social structure and conduct of ants. This book delves into the intricate workings of ant colonies, illustrating how they function not just as societies, but as cohesive "superorganisms." The text covers vital aspects such as colony structure, nest architecture, and the division of labor, emphasizing how ants collectively achieve their societal goals. In addition to exploring the colony dynamics, this comprehensive guide sheds light on reproductive competition,

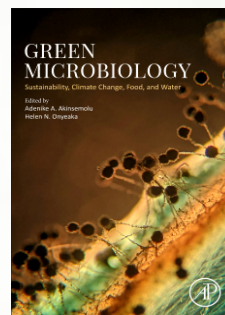
Atlas of Marine Invertebrate Larvae



2nd Edition - July 7, 2025
Academic Press
Editors: Michael J. Boyle, Craig M. Young, Mary A. Sewell
Language: English
Paperback ISBN: 9780081028711

Description
Atlas of Marine Invertebrate Larvae, Second Edition covers the origins and history of marine larval science, contemporary state-of-the-art approaches to larval development and biology, and the highest-quality images and schematics showing the broadest diversity of marine larvae in the animal tree of life. This book illustrates larval body plans, the anatomy of their organ systems (muscular, sensory, digestive), including distinct ciliation patterns that facilitate swimming,

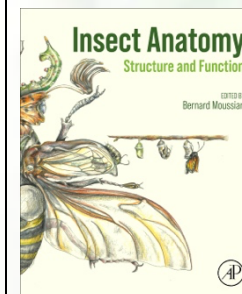
Green Microbiology



Sustainability, Climate Change, Food, and Water
1st Edition - August 22, 2025
Academic Press
Editors: Adenike A. Akinsemolu, Helen N.
Paperback ISBN: 9780443240409

Description
Green Microbiology: Sustainability, Climate Change, Food, and Water provides a comprehensive overview of the principles and applications of green microbiology. The book introduces readers to various ways in which microbes can be used in sustainable development, including in areas such as climate change, food production, bioenergy, bioremediation, and water treatment. The book also discusses the social, economic, and environmental impact of green microbiology

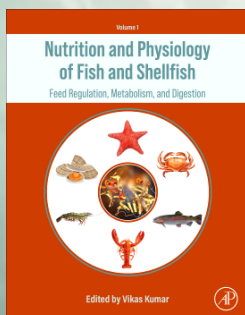
Insect Anatomy



Structure and Function
1st Edition - November 28, 2025
Academic Press
Editor: Bernard Moussian
Language: English
Paperback ISBN: 9780323856195

Description
Insect Anatomy: Structure and Function provides both morphological and anatomical descriptions of insect tissues and organs and the underlying genetic mechanisms of their function using updated methods. Insects play important roles in diverse ecosystems, with subsequent, tremendous impacts on human society through disease, agriculture effects, and more. Both beneficial and detrimental insect species continuously challenge agriculture and medicine.

Nutrition and Physiology of Fish and Shellfish

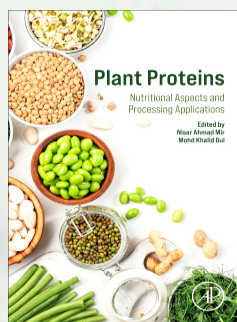


Feed Regulation, Metabolism, and Digestion
1st Edition - May 22, 2025
Academic Press
Editor: Vikas Kumar
Language: English
Hardback ISBN: 9780323908733

Description
Nutrition and Physiology of Fish and Shellfish: Feed Regulation, Metabolism and Digestion is a solid

reference on the most recent advances and fundamental subjects in nutrient metabolism, intestinal transport and physiology of taste in fish. The book covers the known nutrient requirements and deficiency effects for different fish, along with information on the digestion and metabolism of nutrients and energy. It discusses nutrient sources and preparation of practical and research feeds and provides directions for conducting

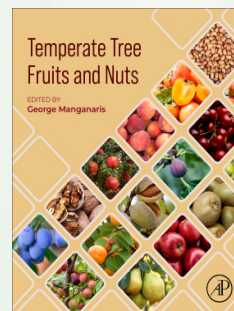
Plant Proteins



Nutritional Aspects and Processing Applications
1st Edition - April 1, 2026
Latest edition
Imprint: Academic Press
Editors: Nisar Ahmad Mir, Mohd Khalid Gul
Language: English
Paperback ISBN: 9780443329760

Description
Plant Proteins: Nutritional Aspects and Processing Applications covers various methods used to extract and purify plant proteins for nutrition, health, and new product development. The book identifies techniques and modifications such as fermentation, radiation, and ball-milling to characterize plant protein structure and functionality. Readers will learn how each method serves a different purpose in enhancing flavor, texture, and/or shelf-life. A special focus on plant-based meat is discussed, along with insights on how plant-based proteins effect digestive wellness and the microbiome

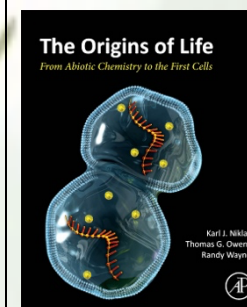
Temperate Tree Fruits and Nuts



1st Edition - October 9, 2025
Academic Press
Editor: George Manganaris
Language: English
Paperback ISBN: 9780443291371

Description
Temperate Tree Fruits and Nuts serves as a comprehensive resource, providing up-to-date knowledge about economically significant temperate fruit crops. This textbook covers the history, genetic improvements, and growth physiology of these crops. It details orchard establishment, management practices, and harvest considerations, making it a standalone guide to sustainable fruit crop production in temperate climates. Targeted toward undergraduate and postgraduate students, as well as professionals in pomology, horticulture, and related fields, the book is essential for researchers, farmers, consultants, and agribusiness professionals

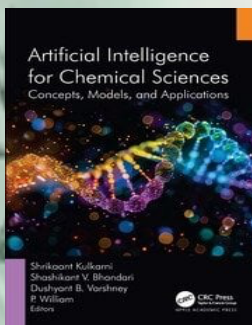
The Origins of Life



From Abiotic Chemistry to the First Cells
1st Edition - May 7, 2025
Academic Press
Authors: Karl Niklas, Thomas Owens, Randy O. Wayne
Language: English
Paperback ISBN: 9780443335440

Description
The Origins of Life: From Abiotic Chemistry to the First Cells is an essential textbook that tackles one of the greatest mysteries in science, how inanimate matter evolved into the first living things. The book takes an interdisciplinary approach, delving into the basic principles of the earth's chemistry, the formation of pre-cellular entities, and the acquisition of chemical complexity. It explains the creation of chromosomes, metabolic pathways, and the features of the earliest prokaryotes. Users will find a detailed exposition of the World RNA Hypothesis in an accessible and easy-to-read style which

Artificial Intelligence for Chemical Sciences

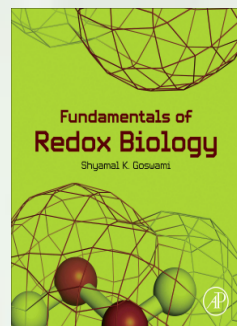


Concepts, Models, and Applications
Edited By Shrikaant Kulkarni,
Shashikant Bhandari,
Dushyant Varshney, P. William

Description
Chemists are increasingly employing artificial intelligence (AI) for diversified applications. This new

volume explores the use of AI and its various computer-aided applications for the design of new drugs and chemical products, for toxicity prediction and biodegradation, and for fault diagnosis in chemical processing plants. The volume explores knowledge and reasoning-based approaches of the field of chemintelligence to make predictions about the right molecules with given structures and properties as precursors or starting materials, reaction pathways

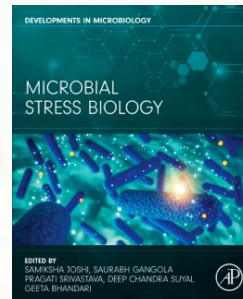
Fundamentals of Redox Biology



1st Edition - December 8, 2025
Latest edition
Imprint: Academic Press
Author: Shyamal K Goswami
Language: English
Paperback ISBN: 9780443223358

Description
Fundamentals of Redox Biology is a comprehensive guide to understanding the complex roles of cellular redox systems in biological processes and human health. Exploring the regulation, physiological functions, and pathological implications of reactive oxygen species (ROS) and free radicals, this book serves as an essential resource for students and professionals in biochemistry and related fields. It delves into the fundamentals of redox signaling

Microbial Stress Biology

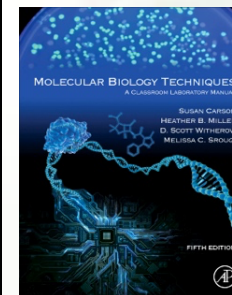


1st Edition - April 1, 2026
Academic Press
Editors: Samiksha Joshi, Saurabh Gangola, Pragati Srivastava,
Deep Chandra Suyal, Geeta Bhandari
Paperback ISBN: 9780443416965

Description
Microbial Stress Biology offers a comprehensive understanding of the adaptation strategies of microbes at the

biochemical and molecular level in response to stressful conditions, while also detailing the molecular mechanisms that enable microbial organisms to survive and persist under these adverse circumstances. The book discusses a wide array of topics related to microbial adaptation, covering fundamental biological responses to stress, microbial adaptations at cellular, genomic

Molecular Biology Techniques

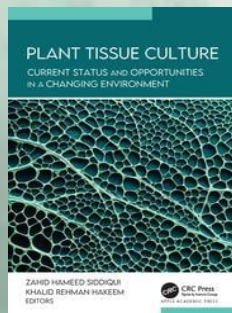


A Classroom Laboratory Manual
5th Edition - January 9, 2026
Academic Press
Authors: Sue Carson, Heather B. Miller, D. Scott Witherow, Melissa C. Srougi
Paperback ISBN: 9780443267147

Description
Molecular Biology Techniques: A Classroom Laboratory Manual, Fifth Edition, is an in-depth laboratory manual for upper-level

undergraduates and beginning graduate students in the general field of molecular biology techniques and biochemical applications. Presented as a series of coordinated experiments that mimics either a one- or two-semester research experience, the book also provides theories and explanations behind the techniques.

Plant Tissue Culture

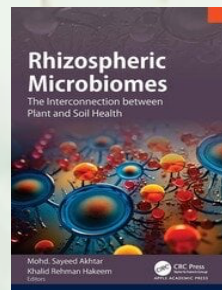


Current Status and Opportunities in a Changing Environment
Edited By Zahid Hameed Siddiqui,
Khalid Rehman
Copyright 2026 Hardback ISBN 9781774917275

Description
Plants are sessile and constantly exposed to changing environmental conditions. Seasonal cues govern plant growth, development, and reproduction. In this era of

climate change, the environment is unstable and takes a toll on the productivity of plants. This new book explores this unique area of plant tissue culture in relation to climate change, showing how tissue culture techniques can be utilized to create tolerance to disease and stress, increase growth, and raise yield in plants.

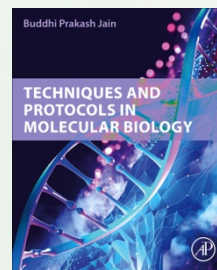
Rhizospheric Microbiomes



The Interconnection between Plant and Soil Health
Edited By Mohd. Sayeed Akhtar,
Khalid Rehman
Copyright 2026 Hardback ISBN 9781774919996

Description
The rhizosphere, the zone of chemical, biological, and physical influence generated by root growth and activity, offers a favorable ecological environment for a wide variety of microorganisms and is renowned for its high level of microbial activity. This book explores how taking advantage of the diversity and benefits of rhizospheric microbiomes in soil and environment management can enhance soil quality and stimulate the production of defense-related compounds in various pathosystems, resulting in better plant

Techniques and Protocols in Molecular Biology

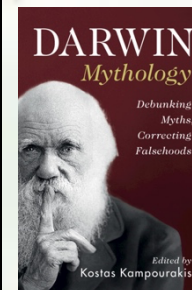


1st Edition - October 28, 2025
Academic Press
Author: Buddhi Prakash Jain
Paperback ISBN: 9780443141607

Description
Techniques and Protocols in Molecular Biology delivers detailed practical guidance for a variety of molecular techniques and procedures. Each chapter focuses on a

different technique including isolation techniques for DNA and RNA, gene cloning, PCR, ELISA, and cell culture. These protocols include a detailed description of the technique along with the main principles, required equipment, and comprehensive steps to assist researchers with replicating the protocol and performing the techniques themselves.

Darwin Mythology



Debunking Myths, Correcting Falsehoods
Kostas Kampourakis, Université de Genève
View all contributors
Published: June
2024 ISBN: 9781009375689

Many historical figures have their lives and works shrouded in myth, both in life and long after their deaths. Charles Darwin (1809–82) is no exception to this phenomenon and his hero-worship has

become an accepted narrative. This concise, accessible and engaging collection unpacks this narrative to rehumanize Darwin's story and establish what it meant to be a 'genius' in the Victorian context. Leading Darwin scholars have come together to argue that, far from being a lonely genius in an ivory tower, Darwin had fortune, diligence and – crucially – community behind him. The aims of this essential work are twofold. First, to set

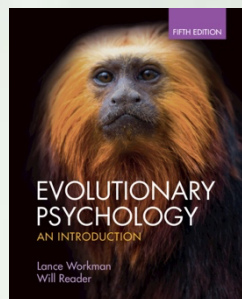
Disease, Health and Ape Conservation



Volume 5:
Series: State of the Apes
Arcus Foundation
Published: August 2024
Volume:
Format: Paperback
ISBN: 9781009069984

This fifth volume of State of the Apes brings together original research and analysis with topical case studies and emerging best practice to further the ape conservation agenda around disease and health. It provides an overview of relevant disease and health issues and explores factors such as the ethics of intervening in and managing ape health; the impact of research and tourism on apes; the One Health approach; and disaster management and the protection of apes. It shows how the welfare of apes is interrelated with that of the people who share their habitats, while also demonstrating the benefits of integrating.

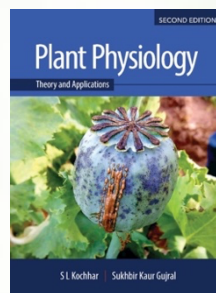
Evolutionary Psychology



An Introduction
Edition: 5th Edition
Lance Workman, University of South Wales
Will Reader Published: October 2025
unavailable - available from TBC
Format: Paperback
ISBN: 9781009452915

The fully revised fifth edition of this highly acclaimed undergraduate textbook provides a thought-provoking introduction to evolutionary psychology, while assuming no prior knowledge of evolutionary theory. The authors continue to carefully guide students towards a level of understanding where they can critically apply evolutionary theory to psychological explanation, providing an engaging and balanced discussion of the field. New material has been added on female homosexuality, artificial intelligence and language, cooking and human brain expansion

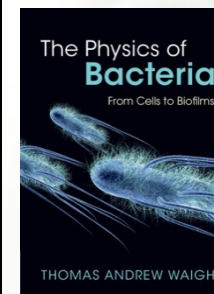
Plant Physiology



Theory and Applications
Edition: 2nd Edition
S. L. Kochhar, University of Delhi
Sukhbir Kaur Gujral, University of Delhi
Published: January 2021
Availability: Available
Format: Hardback
ISBN: 9781108486392

This thoroughly revised and updated edition provides an accessible overview of the rapidly advancing field of plant physiology. Key topics covered include absorption of water, ascent of sap, transpiration, mineral nutrition, fat metabolism, enzymes and plant hormones. Separate chapters are included on photosynthesis, respiration and nitrogen metabolism, and emphasis is placed on their contribution to food security, climate resilient farming (or climate-smart agriculture) and sustainable development. There is also a chapter on the seminal contributions of plant physiologists.

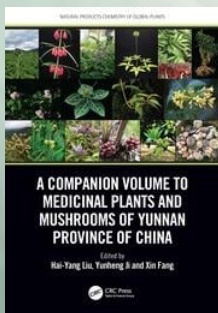
The Physics of Bacteria



From Cells to Biofilms
Thomas Andrew Waigh, University of Manchester
Published: December 2024
Availability: Available
Format: Hardback
ISBN: 9781009313520

Description
Bacteria are the most ubiquitous life-forms on Earth, and are studied extensively to gain insight into their function and understand how they interact with their environment. In recent years, bacterial biophysics has added a new dimension to this research by using the tools of physics to investigate the quantitative principles that underpin these cellular systems. This book provides a modern and cohesive introduction to bacterial biophysics, with a focus on biofilms, slimes and capsules.

A Companion Volume to Medicinal Plants and Mushrooms of Yunnan Province of China

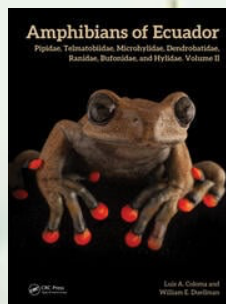


Edited By Hai-Yang Liu,
Copyright 2026
Hardback ISBN 9781032782850

Description
The old saying “no prescription can be made without Yunnan medicinal materials” suggests the profound heritage and extensive influence of Yunnan's ethnic medicine culture and medicinal plant resources. This book, A

Companion Volume to Medicinal Plants and Mushrooms of Yunnan Province of China, continues the systematical introduction of the plant morphological characteristics, medicinal history, resource situation, traditional uses, ethnopharmacology, phytochemicals, pharmacological effects, biosynthesis, and sustainable utilization of some important or endemic medicinal

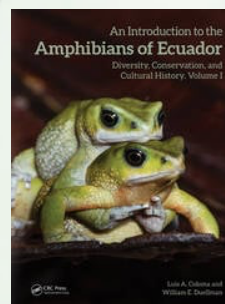
Amphibians of Ecuador



Pipidae, Telmatobiidae, Microhylidae, Dendrobatidae, Ranidae, Bufonidae, and Hylidae, Volume II
By Luis A. Coloma, William E. Duellman
Copyright 2025 ISBN 9781032896472

Description
This book is the second of four volumes, which are comprehensive, well-illustrated, and authoritative works invaluable to biologists, conservationists, and others. It explores, in comprehensive detail, the rich amphibian diversity of Ecuador, providing a thorough review of biogeography, amphibian declines, and conservation. This volume covers Pipidae, Telmatobiidae, Microhylidae, Dendrobatidae, Ranidae, Bufonidae, and Hylidae. Characteristics of each species are listed, defined, and compared to similar other species.

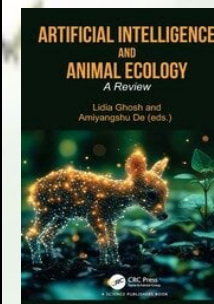
An Introduction to the Amphibians of Ecuador



Diversity, Conservation, and Cultural History
By Luis A. Coloma, William E. Duellman
Copyright 2025 Hardback ISBN 9780367653569

Description
An Introduction to the Amphibians of Ecuador is the first of four volumes, which are comprehensive, well-illustrated, and authoritative works, making them invaluable to biologists, conservationists, and others. This initial volume delves into the cultural history of amphibians, encompassing ethnobatrachology and folklore, while summarizing the amphibian iconography found in Ecuadorian archaeology. Moreover, it covers topics such as bioprospecting, sustainable management, and biotrade activities. The history and present state of amphibian biology research are also addressed. Furthermore

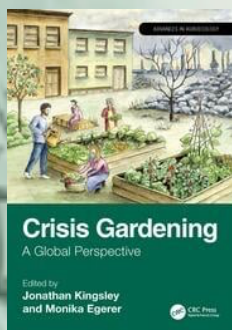
Artificial Intelligence and Animal Ecology



A Review
Edited By Lidia Ghosh, Amiyangshu De
Copyright 2026 Hardback ISBN 9781032782348

Description
Artificial Intelligence and Animal Ecology: A Review explores the transformative synergy between AI and animal ecology, unveiling how cutting-edge technology is revolutionizing ecological research and conservation. This pioneering book bridges these dynamic fields, demonstrating how AI techniques—such as evolutionary algorithms and optimization methods—both draw inspiration from and advance the study of animal behavior,

Crisis Gardening

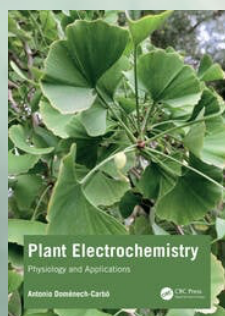


A Global Perspective
Edited By Jonathan Kingsley,
Monika Egerer
Copyright 2026 Paperback ISBN
9781032564067

Description
Gardening during times of crisis can have significant benefits to individuals and populations in terms of health, well-being, social and economic outcomes. So-called 'crisis gardening' can even be

linked to transformative change in food systems through socio-ecological aspects of agroecology. In this book, crisis gardening is explored to better define, describe and provide recommendations about this activity globally. Diverse perspectives are offered from scholars around the world, providing an overview of gardening during crises with ties to agroecology. Such a perspective is critical as we grapple with food system crises, pandemics, climate change, biodiversity loss, mental health issues and political conflict globally.

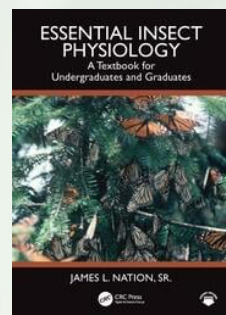
Plant Electrochemistry



Physiology and Applications
By Antonio Doménech-Carbó
Copyright 2025 ISBN
9781032697291

Description
The book comprehensively views the intersection between electrochemistry and botany. It attempts to inform people about the capacity of electrochemistry to provide information of interest to plant science. This includes electrophysiology, plant communication, and plant defense responses, as well as chemoecological and phylogenetic aspects. Conversely, the book also treats the capabilities of vegetal systems and vegetal-derived materials to be used in electrochemical applications for sensing, energy production and storage, and environmental issues.

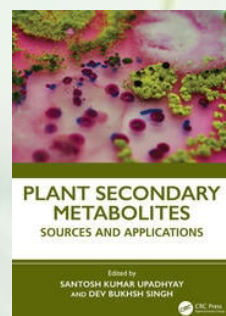
Essential Insect Physiology



A Textbook for Undergraduates and Graduates
By James L. Nation, Sr.
Copyright 2026 Paperback ISBN
9781041012771

Description
This textbook is the first to teach insect physiology and biology specifically to students who lack a strong background in biochemistry and molecular biology. Avoiding taxonomic language and supported with high-quality figures, chapter summaries, end-of-chapter review questions, and a suite of PowerPoint slides for use in teaching, it describes the fundamental processes. These include molting and metamorphosis, digestion of food, nerve and muscle function, flight, biological rhythms, circulation and breathing, immunity, how climate and climate change have, and are, affecting insects, and the use of new manipulation of the genome in insect biology and control.

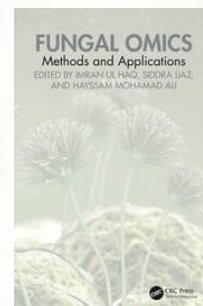
Plant Secondary Metabolites



Sources and Applications
Edited By Santosh Kumar
Upadhyay, Dev Bukhsh Singh
Copyright 2026 Hardback ISBN
9781032854762

Description
This book explores the pharmacological potentials of various classes of plant secondary metabolites. The initial chapter introduces the chemical diversity, biosynthesis pathways, and ecological functions of plant secondary metabolites. It discusses the pivotal role of transcription factors in regulating their production. Furthermore, the book examines the specific classes of secondary metabolites, such as phenolic compounds, terpenes, and anthocyanins, highlighting their properties and various applications across the food, cosmetics, and pharmaceutical industries. This book delves into emerging areas such as plant metabolites as nutraceuticals.

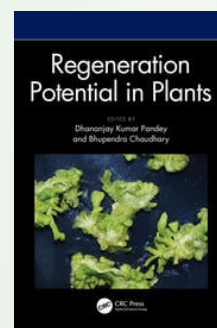
Fungal Omics



Methods and Applications
Edited By Imran Ul Haq, Siddra Ijaz,
Hayssam Ali
Copyright 2026 ISBN 9781032587424

Description
Fungal Omics: Methods and Applications provides a comprehensive account of trends and developments in fungal "omics" approaches. It presents literature on various "omics" applications and includes information on plant taxonomy, genetics, epigenetics, and biotechnological and industrial applications. It begins with basic concepts, extending to complex and in-depth knowledge, and finally describing the fungal genome and all "omics" comprehensively.

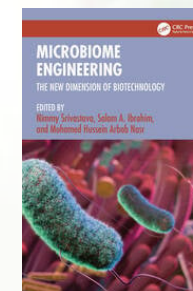
Regeneration Potential in Plants



Edited By Dhnanjay Kumar Pandey,
Bhupendra Chaudhary
Copyright 2025 Hardback ISBN
9781032702407

Description
Regeneration Potential in Plants delves into the intricate world of plant regeneration, exploring the biological and molecular mechanisms that enable plants to regenerate under different conditions. This book offers an authoritative perspective on one of the most fascinating and vital processes in plant biology, setting a benchmark for future research and applications. Unlike other volumes that focus solely on theoretical aspects, this comprehensive work bridges the gap between foundational knowledge and practical implications, showcasing its importance in fields ranging from genetic engineering to crop improvement.

Microbiome Engineering



The New Dimension of Biotechnology
Edited By Nimmy Srivastava, Salam A.
Ibrahim, Mohamed Hussein Arbab Nasr
Copyright 2025 ISBN 9781032479606

Description
This reference book compiles the latest techniques and applications of microbiome engineering. Microbial communities interact dynamically with their hosts, creating a considerable impact on the host and their ecosystem. This book introduces readers to microbiomes and microbiome engineering. It covers topics like omics tools in microbial research, strategies to engineer human microbiomes, the application of synthetic biology to build smart microbes, and the future of microbiome engineering. It includes the application of microbiome engineering in improving human health, livestock, and agricultural productivity.

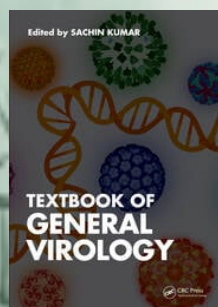
Shrimp and Prawn Welfare in the Wild-Caught Fishing Industry



Global Review and Recommendations
for Research and Policy
By Ren Ryba, Shannon M Davis, Tse
Yip Fai, Peter Singer
Copyright 2026 Paperback ISBN
9781032901459

Description
At 37 trillion individuals per year, wild-caught shrimp and prawns appear to be the single most numerous group of animals directly killed for human food consumption on the planet. Recent scientific developments suggest that at least some species of shrimp are sentient beings, and, should that be the case, there is a need for policies that could improve shrimp welfare. This book delves into the ethical implications of the probability that shrimp and prawns are capable of feeling pain and the welfare policies that could be adopted.

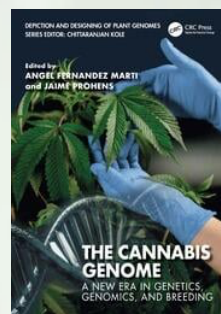
Textbook of General Virology



Edited By Sachin Kumar
Copyright 2025
Paperback ISBN 9781032436180

Description
This book is an introductory text that presents fundamental knowledge and recent advances in virology. It provides comprehensive coverage of different aspects like classification, structure, emerging viruses, cancer-causing viruses, and viral vaccines. It covers the basic biology of virus existence, evolution, and reoccurrence. It also incorporates the fundamentals of biophysical and biochemical aspects of viral replication. The book discusses important topics such as immunity to viral infections, bacteriophages, and techniques used in virology. The Textbook of General Virology is meant for undergraduate and postgraduate students of microbiology, immunology, genetics, and medicine.

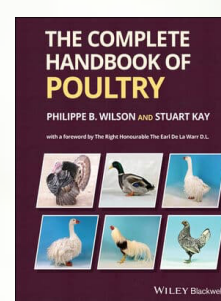
The Cannabis Genome



A New Era in Genetics, Genomics, and Breeding
Edited By Angel Fernandez i Marti, Jaime Prohens
Copyright 2025 Hardback ISBN 9781032478975

Description
Cannabis is undergoing a remarkable transformation—from a misunderstood plant to a cornerstone of modern medicine, industry, and agriculture. This book bridges the gap between tradition and innovation, providing a holistic exploration of cannabis genetics, breeding, genomics, and its wide-ranging applications. Authored by leading researchers, industry pioneers, and legacy breeders, it offers a unique blend of academic rigor and practical insights. Unlike other resources, this book integrates perspectives from public and private sectors, honoring those who have advanced cannabis cultivation despite legal and social barriers.

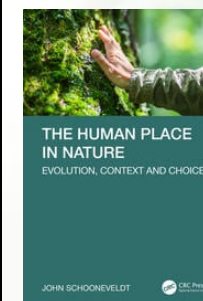
The Complete Handbook of Poultry



Philippe B. Wilson, Stuart Kay, The Right Honourable The Earl De La Warr D.L. (Foreword by)
ISBN: 978-1-119-76518-9 March 2025 Wiley-Blackwell 288 pages

Description
Authoritative reference on the rearing, breeding, feeding, and keeping of multiple species of poultry. The Complete Handbook of Poultry is an authoritative reference on poultry for the practitioner. Responding to the need for a multidisciplinary text, this book will appeal to all fields aligned with rearing, breeding, feeding, and keeping poultry. Example species covered include chickens, ducks, guinea fowl, quail, turkey, and pigeons, with entries on a full range of breeds. Readers will also find entries for relevant farming, medical, descriptive, and industry terms encountered when keeping and treating poultry.

The Human Place in Nature



Evolution, Context and Choice
By John Schooneveldt
Copyright 2025 Paperback ISBN 9781032935959

Description
This book explores a new approach to understanding the evolution of mind and consciousness by examining the perceptual abilities of animals and the way they experience their world. It offers a science-based bottom-up approach to our own conscious worldview by seeing it through the eyes of others. Emphasis is on the role of context in evolution and the way animals internalize and engage with the contextual properties of their world that are meaningful for them. The core argument is that a context, which is subjective and comprised of the perceptual capacities, offers new insights into the evolution of mind.

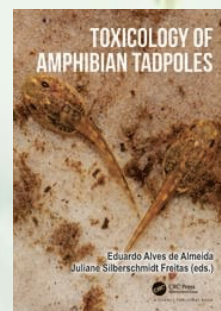
The New Taxonomy



A Science Reimagined
Edited By David M. Williams, Quentin D. Wheeler
Copyright 2025 Hardback ISBN 9781032249209

Description
Today molecular data is part of many biological studies, including taxonomic works. Such data is embraced by taxonomists for good reasons. When combined with comparative morphology, palaeontology, and embryology, it creates a rich, integrated overview of the history of life. This book is intended as a clear articulation of the mission, goals, and needs of fundamental taxonomists and a planetary-scale inventory of species by revisiting the idea of taxonomy as a fusion of the traditional questions asked by taxonomists and the latest technologies. It is a clear roadmap to a taxonomic renaissance and world species inventory.

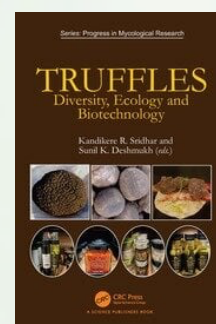
Toxicology of Amphibian Tadpoles



Edited By Eduardo Alves de Almeida, Juliane Silberschmidt Freitas
Copyright 2024 Paperback ISBN 9780367549695

Description
Anuran amphibians are among the animal groups with the highest rate of population decline on the planet. Among the factors driving this decline are environmental pollutants, whose negative effects on larvae and tadpoles are still relatively little studied. This is the first book devoted entirely to studying the effects of environmental pollutants on amphibian tadpoles. Throughout its 14 chapters, various aspects of the toxic effects of different classes of environmental contaminants are explored, such as the toxicokinetics of toxic compounds in tadpoles and their health effects, which may result in negative consequences at populations level.

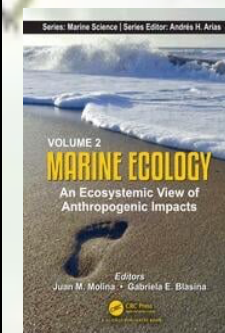
Truffles



Diversity, Ecology and Biotechnology
Edited By Kandikere R. Sridhar, Sunil Kumar Deshmukh
Copyright 2025 Hardback ISBN 9781032819921

Description
Truffles are hypogeous ectomycorrhizal ascomycetous edible mushrooms distributed worldwide in terrestrial ecosystems, including deserts, as non-timber forest products. They are seasonal and have a short shelf life. Owing to their nutraceutical value, truffles are in high demand and valuable. Of the 180 or more species of truffles reported worldwide, only around 20 are commercially viable. Truffles: Diversity, Ecology and Biotechnology reviews the current advances in truffles from a historical perspective and covers.

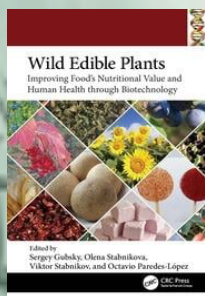
Volume 2: Marine Ecology



An Ecosystemic View of Anthropogenic Impacts
Edited By Juan M. Molina, Gabriela E. Blasina
Copyright 2025 Hardback. ISBN 9780367456603

Description
Marine systems face a multitude of anthropogenic stressors such as climate change, recreational and commercial fishing, aquaculture practices, pollution, and coastal urbanization. These stressors exert escalating pressure on marine ecosystems, leading to noticeable changes in habitat conditions as well as alterations in the abundance and diversity of their communities. Understanding the impacts of these stressors proves challenging due to their interactions with various factors, such as species richness, environmental fluctuations, system openness, stressor tolerance, and the occurrence rate and intensity of each stressor. Therefore, a comprehensive analysis of the entire ecosystem is crucial.

Wild Edible Plants

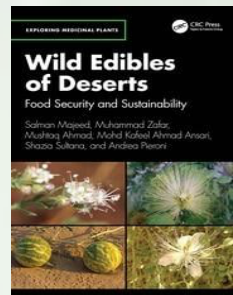


Improving Food's Nutritional Value and Human Health through Biotechnology
Edited By Sergey Gubsky, Olena Stabnikova, Viktor Stabnikov, Octavio Paredes-López
Copyright 2026 Hardback ISBN 9781032765204

Description
Wild plants have been used by humans as an important source of nutrition since ancient times. They are rich in health-promoting

compounds such as phenols, flavonoids, antioxidants, vitamins, trace elements, and dietary fibers. When incorporated into food products, these materials enhance the nutritional value, functionality, and sensory qualities of traditional foods. This book explores the biotechnological approaches to developing meat, bakery, and confectionery products, as well as beverages, enriched with wild edible plants. It highlights recent advancements in the use of wild plants as natural emulsifiers, stabilizers, and thickeners in water-in-oil emulsion-based food systems. Additionally,

Wild Edibles of Deserts



Food Security and Sustainability
By Salman Majeed, Muhammad Zafar, Mushtaq Ahmad, Mohd Kafeel Ahmad Ansari, Andrea Pieroni, Shazia Sultana
Copyright 2026 Hardback ISBN 9781032865119

Description
Wild Edibles of Deserts: Food Security and Sustainability provides coverage of topics in food and health in desert

rangelands, using an interdisciplinary approach that considers health not only in a functional and human sense but also in terms of external factors including aridity.

The plant diversity in desert ecosystems provides economic service benefits, such as sources of fodder, fuel wood, and traditional medicinal plants.

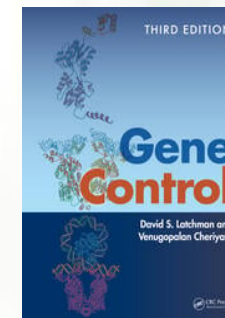
Aquaculture Mycology and Bacteriology



1st Edition - March 9, 2026
Academic Press
Editors: Frederick S.B. Kibenge, Javier Santander, David P. Overy
Paperback ISBN: 9780128123584

Description
Aquaculture Mycology and Bacteriology is a practical reference to address the steadily increasing importance of infectious diseases of aquatic animals. With the burgeoning expansion of the animal aquaculture industry to new geographic areas, new microbial and parasitic species with pathogenic potential will continue to emerge. This necessitates rapid identification of the new pathogens to enable their control. Each pathogenic bacterial or fungal species is accompanied by the full description of both taxonomic and clinical information for the three major aquatic food animals (fish, crustaceans and mollusks).

Gene Control

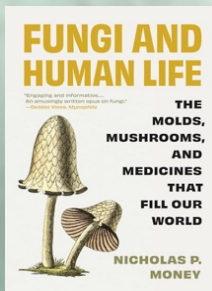


By David S. Latchman, Venugopalan Cheriya
Copyright 2025 Paperback ISBN 9781032465463

Description
The new edition of Gene Control, for the first time, provides extensive coverage on prokaryotic gene regulation, which makes it the only textbook offering a complete and detailed account of gene control

for both prokaryotic and eukaryotic organisms. The core objective of this edition is to educate students about the fundamental principles and mechanisms governing gene expression, regulation, and function. To reinforce these ideas, each chapter now includes discussion questions to promote critical thinking. There are also multiple choice questions and animations for students, and a large question bank and figure slides for instructors. The textbook also emphasizes the vital role of scientific experiments and evidence in shaping our current understanding of gene control and provides

Fungi and Human Life:

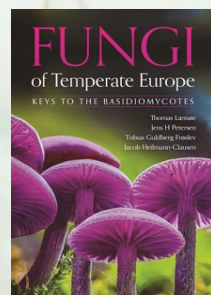


The Molds, Mushrooms, and Medicines That Fill Our World
Nicholas P. Money
The incredible, hidden role of fungi in our lives
ISBN: 9780691238722 Published: Mar 17, 2026

Overview
From beneficial yeasts that aid digestion to toxic molds that cause disease, we are constantly navigating a world filled

with fungi. Fungi and Human Life explores the amazing ways fungi interact with our bodies, showing how our health and well-being depend on an immense ecosystem of yeasts and molds inside and all around us. Nicholas Money takes readers on a guided tour of a marvelous unseen realm, describing how our immune systems are engaged in continuous conversation with the teeming mycobiome inside the body, and how we can fall prey to serious and even life-threatening infections when this peaceful coexistence is disturbed.

Fungi of Temperate Europe:

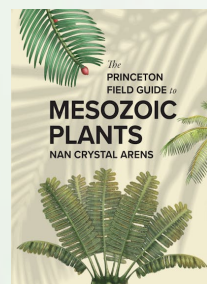


Keys to the Basidiomycetes
Thomas Læssøe, Jens H. Petersen, Tobias G. Frøslev, and Jacob Heilmann-Clausen
ISBN: 9780691267876 Published: Jul 28, 2026

Overview
The basidiomycetes comprise some of the best-known groups in the Kingdom of Fungi, including most mushrooms prized by mushroom hunters. Fungi of

Temperate Europe: Keys to the Basidiomycetes covers more than 4,600 species found in the region. These stunningly illustrated scientific keys offer a revolutionary approach to identification. Incisive descriptions provide information on everything from distinguishing characteristics and morphology to ecology and distribution, and each form group begins with an innovative comparison wheel with guiding up-close photos and drawings of essential microscopic

The Princeton Field Guide to Mesozoic Plants



Nan Crystal Arens
Illustrated by Julius Csotonyi/Sante Mazzei Shuyu Hsu
A dazzlingly illustrated guide to the plant life of the dinosaur age, from intricate ferns to the most majestic megafloora
ISBN: 9780691272436 Published (US): Nov 25, 2025

Overview
The Mesozoic was dominated by a spectacular array of flora, from ferns, conifers, and cycads to ginkgos and flowering plants, as well as some enigmatic species with no modern-day descendants. This wide-ranging illustrated guide provides an unparalleled, in-depth look at the era's extraordinary plant life, exploring its natural history, biology, and evolution over a span of 185 million years. Blending the latest discoveries in paleontology with informative profiles of extinct species and their living descendants, The Princeton Field Guide to Mesozoic Plants is a one-of-a-kind reference to the botanical wonders of the prehistoric world.

Doctors by Nature

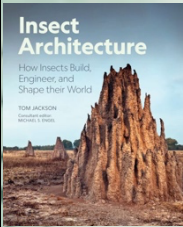


How Ants, Apes, and Other Animals Heal Themselves
Jaap de Roode
The astonishing story of how animals use medicine and what it can teach us about healing ourselves
ISBN: 9780691239248 Published: Mar 4, 2025

Overview
Ages before the dawn of modern medicine, wild animals were harnessing the power of nature's pharmacy

to heal themselves. Doctors by Nature reveals what researchers are now learning about the medical wonders of the animal world. In this visionary book, Jaap de Roode argues that we have underestimated the healing potential of nature for too long and shows how the study of self-medicating animals could impact the practice of human medicine.

Insect Architecture:



How Insects Build, Engineer, and Shape Their World
Michael S. Engel and Tom Jackson

ISBN: 9780691275239 Published: Sep 9, 2025

Overview

Insect Architecture takes you inside the amazing structures that insects build, from the paper galleries of yellowjacket wasps to elaborate termite mounds complete with royal chambers and air-conditioning systems. Each chapter focuses on a group of insect architects, describing the materials and methods they use while exploring the structures themselves in detail. Blending spectacular illustrations with illuminating case studies of representative species from around the world, this is the ultimate guide to insect artistry and innovation.

Life's Devices:

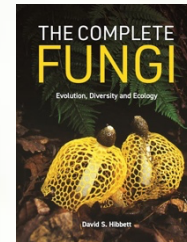


The Physical World of Animals and Plants
Steven Vogel
ISBN: 9780691270586
Published: May 27, 2025

Overview

Life on Earth is subject to the pull of gravity, the properties of air and water, and the behavior of diffusing molecules, yet such physical factors are constraints that drive evolution and offer untold opportunities to creatures of all sizes. In this lively introduction to the science of biomechanics, Steven Vogel invites you to wonder about the design of the plants and animals around us. You will learn why a fish swims more rapidly than a duck can paddle, why healthy trees more commonly uproot than break, how sharks manage with such flimsy skeletons, and why a mouse can easily survive a fall onto any surface from any height. With an illuminating foreword by Rob Dunn, this Princeton Science Library edition of Life's

The Complete Fungi:

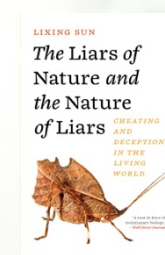


Evolution, Diversity and Ecology
David S. Hibbett
ISBN: 9780691265261
Published: May 5, 2026

Overview

Occupying an entire kingdom of their own, fungi comprise over 155,000 species that include yeasts, rusts, and molds as well as the more familiar mushrooms and toadstools that we see in the wild and on our plates. Found widely across the globe, they represent a diverse group of organisms, some living freely in soil and water, and others forming parasitic or symbiotic relationships with plants, algae, and animals. This book presents a broad and accessible overview of fungal diversity, evolution, and ecology. It describes the various forms of fungi and covers topics ranging from fungal origins and reproduction to the historical and cultural significance of fungi for humankind. Blending stunning illustrations with a lively and engaging text, The Complete Fungi is a must for fungi enthusiasts and armchair naturalists alike.

The Liars of Nature and the Nature of Liars:



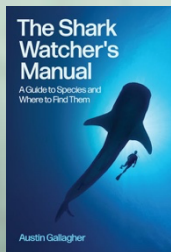
Cheating and Deception in the Living World
Lixing Sun

ISBN: 9780691256849
Published: Sep 16, 2025

Overview

Nature is rife with cheating. Possums play possum, feigning death to cheat predators. Crows cry wolf to scare off rivals. Amphibians and reptiles are inveterate impostors. Even genes and cells cheat. The Liars of Nature and the Nature of Liars explores the evolution of cheating in the natural world, revealing how dishonesty has given rise to wondrous diversity. Blending cutting-edge science with a wealth of illuminating examples—from microscopic organisms to highly intelligent birds and mammals—Lixing Sun shows how cheating in nature relies on two basic rules.

The Shark Watcher's Manual:

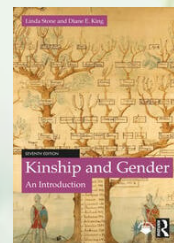


A Guide to Species and Where to Find Them
Austin Gallagher
The ultimate illustrated handbook to seeing sharks in the wild

Overview

An ocean encounter with a shark is one of nature's most awesome experiences. There is no better way to understand sharks than to get up close and personal with great whites, hammerheads, and tiger sharks. The Shark Watcher's Manual provides a complete handbook for encountering and studying these magnificent creatures in the wild. It covers everything the shark enthusiast needs to know about diving, conservation, safety, and photography. Written by a world-renowned authority, this is the essential companion for newcomers to shark watching and seasoned divers, offering an authoritative, fact-filled guide to finding and identifying sharks of all kinds.

Kinship and Gender

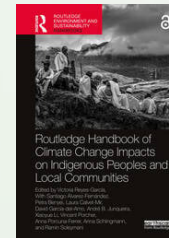


An Introduction
By Linda Stone, Diane E. King
Copyright 2025 Paperback ISBN
9781032495071

Description

This fully revised seventh edition of Kinship and Gender: An Introduction explores kinship in today's globalized, increasingly mobile world, and how family structures continue to influence the varied roles that men and women play in different cultures. Written to engage students, each chapter provides key terms and useful generalizations gleaned through research on the interplay of kinship and gender in both traditional societies and contemporary communities. Detailed case studies and cross-cultural examples help students understand how such generalizations are experienced in real life. The authors also consider the ramifications of current social problems and recent developments in reproductive technology as they demonstrate the relevance of kinship and gender to students' lives

Routledge Handbook of Climate Change Impacts on Indigenous Peoples and Local Communities



Edited By Victoria Reyes-García
Copyright 2024 Paperback. ISBN
9781032412153

Description

This Handbook examines the diverse ways in which climate change impacts Indigenous Peoples and local communities and considers their response to these changes.

While there is well-established evidence that the climate of the Earth is changing, the scarcity of instrumental data oftentimes challenges scientists' ability to detect such impacts in remote and marginalized areas of the world or in areas with scarce data. Bridging this gap, this Handbook draws on field research among Indigenous Peoples and local communities distributed across different climatic zones and relying on different livelihood activities, to analyse their reports of and responses to climate change impacts.

Saving Biodiversity Threats, Strategies, and Big Ideas



By Matt W. Hayward
Copyright 2025
Paperback ISBN 9781032960265

Description

Drawing on the author's personal experiences working across the globe, this book explains why we need to conserve biodiversity, the threats it faces, how we can successfully conserve biodiversity, and some success stories of how we have conserved it. This is a personal journey from being an environmental vandal to internationally renowned conservationist. The book follows the author's life and career in conservation, from scarring koala-feed trees to being chased by elephants, sniffed by lions, gored by quokkas, and watched by wolves. It mixes robust facts with fun stories to engage a broad audience spanning the general public to academics and enthrust them into promoting the conservation of the plants and animals humanity relies on

Science 5-11



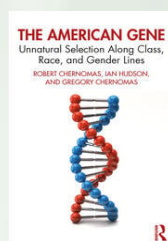
A Guide for Teachers
By Kendra McMahon, Alan Howe, Chris Collier, Sarah Earle, Dan Davies, Darren McKay, Kerry-Anne Barber, Lisa Howarth
Copyright 2025
Paperback ISBN 9781032377704

Description
This fully updated fourth edition of the bestselling textbook Science 5-11 provides a

comprehensive introduction to current research and professional practice for teaching science in the primary school.

Chapters are organised into five sections, first introducing theory and practice, then providing specific guidance on teaching topics in biology, chemistry and physics, and finally discussing supporting science across the whole school. Updates to the new edition include

The American Gene



Unnatural Selection Along Class, Race, and Gender Lines
By Robert Chernomas, Ian Hudson, Gregory Chernomas
Copyright 2025 Paperback ISBN 9781032945989

Description
Biological justification for all forms of inequality has a long history, with the claim that particular groups suffer

disproportionately from inherited flaws of ability and character used to explain a remarkably wide variety of inequalities.

Providing an important critique of that biodeterminist history and how the Human Genome Project has inspired some contemporary scientists and economists to follow a similar path of ascribing socioeconomic outcomes to genetic inheritance, The American Gene details new research that suggests that the social and economic environment can affect how genes express themselves in specific human traits and social outcomes. Using the three cases of the American white working class.

Edible Insects:

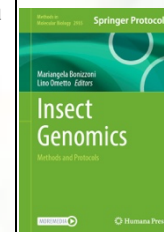


Nutritional Benefits, Culinary Innovations and Sustainability
Book © 2025. Matthew Chidozie Ogwu
Softcover ISBN 978-3-031-90089-1 Due: 11 June 2026

About this book
Insects have been consumed by various cultures across the globe for centuries, yet their potential as a sustainable and nutritious food

source has only recently gained widespread attention. As the global population edges toward nine billion, securing sustainable protein sources that balance environmental, economic, and nutritional needs is paramount. Edible insects offer a promising solution that aligns with global sustainability goals, particularly in the context of climate resilience, circular economy, and alternative protein markets. Edible Insects: Nutritional Benefits, Culinary Innovations and Sustainability provides a comprehensive exploration of the diverse roles insects play in global food systems.

Insect Genomics

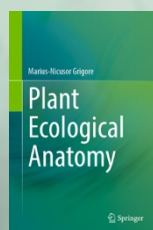


Methods and Protocols
Book © 2025 Editors: Mariangela Bonizzoni

About this book
This collection explores advances in genome sequencing and analysis tools for the understanding of insect genomes and hence their biology. Beginning with obtaining a high-quality genome assembly using the

latest sequencing data, the book continues with the identification of genome variability including single nucleotide polymorphisms and genomic inversions, and the annotation of insect genomes through genes, transposable elements, and piRNA clusters. Notably, chapters also delve into downstream analyses, such as the evolution of gene families and phylogenetics, molecular biology protocols pertinent to the study of insects, as well as CRISPR-era genome editing tools to manipulate non-model insects. Written for the highly successful Methods in Molecular Biology series, chapters include the kind of detailed implementation advice to ensure success in the laboratory.

Plant Ecological Anatomy

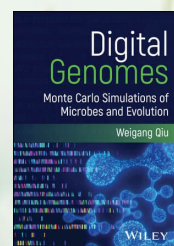


Textbook © 2025
Authors: Marius-Nicusor Grigore
Softcover ISBN 978-3-032-01334-7
Due: 11 October 2026

About this book
This book, "Plant Ecological Anatomy," offers a groundbreaking exploration of plant anatomy through the lens of ecological

adaptation, addressing the pressing challenges posed by climate change. Moving beyond traditional descriptive anatomy, this volume provides a comprehensive understanding of how plants structurally adapt to diverse ecological factors, thus describing ecological groups of plants as: hydrophytes, helophytes, xerophytes (as a large group and with their sub-groups as well: halophytes, alpine plants, tropical alpine plants, steppe plants, desert plants, epiphytes) and mangroves, under environmental stressors like aridification and salinization, and waterlogging.

Digital Genomes:

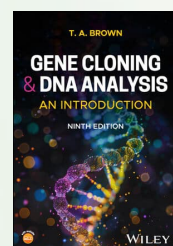


Monte Carlo Simulations of Microbes and Evolution
Weigang Qiu
ISBN: 978-1-394-31461-4
March 2026 240 pages

Description
An expert discussion of simulation-based approaches to teaching genome sciences

In Digital Genomes: Monte Carlo Simulations of Microbes and Evolution, distinguished researcher Weigang Qiu delivers a comprehensive exploration of the role of Monte Carlo simulations in understanding complex biological processes. Beginning with an introduction to microbial evolution, computer simulations, and evolutionary algorithms, the book moves on to explore the evolution of DNA sequences and concepts like neutral evolution, Mendelian inheritance, Darwinian natural selection, and genome evolution.

Gene Cloning and DNA Analysis:

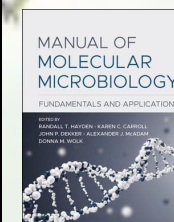


An Introduction, 9th Edition
T. A. Brown
ISBN: 978-1-394-29256-1
November 2025 448 pages

Description
New edition of a world-renowned introductory text to the rapidly-growing and dynamic field of Gene Cloning and DNA Analysis

Gene Cloning and DNA Analysis is a comprehensive introductory text that explores all of the topics vital for a complete understanding of gene cloning and DNA analysis. Presented in full color, the text's easy-to-follow layout and over 250 clear illustrations make the material simple and accessible for a diverse readership. This newly revised and updated Ninth Edition highlights new developments in DNA sequencing technology and provides extended coverage on DNA editing including CRISPR methodology and its applications in gene therapy and plant genetic engineering.

Manual of Molecular Microbiology:



Fundamentals and Applications
Randall T. Hayden (Editor), Karen C. Carroll (Editor)
June 2025 ASM Press 528 pages

Description
Your essential guide to the design, operation, management, and health care integration of the modern molecular microbiology

laboratory.
This comprehensive resource offers definitive guidance on the operational and interpretive aspects of clinical molecular microbiology. Tailored for medical laboratory professionals, it provides practical "how-to" guidance for establishing, maintaining, and advancing molecular microbiology testing services and details the unique expertise required to support infectious disease diagnostics.
The Manual offers a clear and practical roadmap for topics ranging from selecting appropriate technologies, instruments, and analytic pipelines to navigating complex interpretive challenges and positioning diagnostic testing services for future clinical