



LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

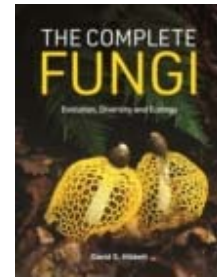
The Complete Fungi : Evolution, Diversity and Ecology

by [Hibbett, David S.](#)

Hardback 17 Mar 2026

Publisher [Princeton University Press](#)

ISBN: 9780691265261



A richly illustrated natural history of fungi 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. Features a wealth of photos and infographics Discusses the relationship of fungi to plants, animals, and protists in the tree of life Describes the features that distinguish fungi from funguslike organisms such as slime molds and oomycetes Highlights the major life-forms of fungi such as yeasts and filamentous fungi Looks at the elaborate life cycles of fungi and how they reproduce sexually and asexually Sheds light on the multicellularity in fungi and the diverse ways fruiting bodies adapt to the challenges of spore dispersal Explores interactions of fungi with plants and animals

Fungi and Human Life : The Molds, Mushrooms, and Medicines That Fill Our World

by [Money, Nicholas P.](#)

Paperback / softback 17 Mar 2026

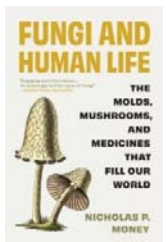
Publisher [Princeton University Press](#)

ISBN: 9780691238722

The incredible, hidden role of fungi in our lives 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.

He also sheds light on our complicated relationship with fungi outside the body, from wild mushrooms and cultivated molds that have been staples of the human diet for millennia to the controversial experimentation with magic mushrooms in the treatment of depression. Drawing on the latest advances in mycology, Fungi and Human Life reveals what scientists are learning about the importance of fungi to our lives, from their vital role in supporting the ecosystems on which we depend to their emerging uses in lifesaving medicine.



Endemic : Exploring the wildlife unique to Britain

by [Harding-Morris, James](#)

Hardback 7 Aug 2025

Publisher [Bloomsbury Wildlife](#)

ISBN: 9781399405676

Meet the rare, obscure and utterly British species found nowhere else on earth. Around 70,000 species call Britain home, but how many of them can be found here and only here?





LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

Join conservationist James Harding-Morris as he uncovers the stories of our endemic wildlife – the plants, animals and fungi that are unique to these islands. Determined to give these irreplaceable species their moment in the spotlight, James goes in search of them across the length and breadth of Britain, from wild and rugged Orkney, the only known location for the Orkney vole, down to suburban Plymouth where the horrid ground-weaver spider faces global extinction at the hands of developers.

He seeks out alien fungi on the roadsides of Norfolk, explores Devon's depths in the hunt for ghostly cave shrimps, and traces the tribulations of interrupted brome, a grass that has gone extinct not once, but twice.

Along the way, James meets the experts devoted to the study and survival of these vanishingly rare creatures and plants, individuals working tirelessly – and often single-handedly – to save them from the brink of global extinction. Because many of these species are at risk of disappearing forever, before most of us have even realised they exist.

A tapestry of wonder and weirdness, tragedies and triumphs, Endemic celebrates what makes our natural history so special and calls on us all to cherish and protect it.

Go Forth and Forage : A Guide to Foraging Over 50 of the Most Common Edible & Medicinal North American Mushrooms

by [Johnson, Whitney](#)

Paperback / softback 27 Mar 2025

Publisher [Cool Springs Press](#)

ISBN: 9780760392751

Let expert forager and Appalachian native Whitney Johnson (@appalachian_forager) be your friendly guide to foraging over 50 North American species of edible and medicinal fungi.

Go Forth and Forage is a detailed field guide to identifying, harvesting, and preparing wild-foraged mushrooms through all four seasons.



Aflatoxigenic Fungi : Its Impact on Plant, Animal and Human Health

by [Sankara Narayanan, A. \(Uka Tarsadia University, India\)](#)

Hardback 17 Sep 2025

Publisher [CRC Press](#)

ISBN: 9781032782621

Aflatoxigenic fungi, primarily belonging to the Aspergillus genus (*A. flavus*, *A. parasiticus*), are responsible for producing aflatoxins—highly toxic and carcinogenic secondary metabolites.

These fungi pose significant risks to plant health, animal health, and human well-being due to their widespread contamination of food and feed.



Psilocybin Mushrooms in Their Natural Habitats : A Guide to the History, Identification, and Use of Psychoactive Fungi

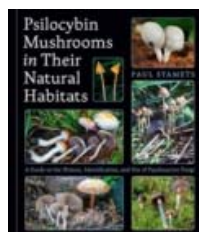
by [Stamets, Paul](#)

Hardback 10 Jun 2025

Publisher [Random House Inc](#)

ISBN: 9780593839003

A full-color guide to psilocybin mushrooms how to forage, identify, grow, and use them with detailed descriptions, 300 stunning photographs, tips for dosing safely, and more, from a world-renowned mycologist.





LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.

R.F.C. LLS0506166Y5

FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

The past decade has seen an explosion of interest in using psilocybin (aka psychoactive or ?magic?) mushrooms for recreational and medicinal purposes.

In this comprehensive, full-color reference, Paul Stamets offers descriptions and 300 photographs of more than 60 psilocybin varieties and their lookalikes common to North America, Europe, and Australasia. He outlines the history and cultural use of magic mushrooms in traditional rituals and ceremonies, their natural geographic distribution and habitats, and keys to growing your own mushroom patch. But perhaps most important, Stamets explains how to reliably distinguish between a non-poisonous, psychoactive mushroom and one of its highly toxic, even deadly, lookalikes.

Packed with a lifetime of scientific and real-world research, *Psilocybin Mushrooms in Their Natural Habitats* brings depth and understanding to an often-misunderstood topic. Revealing the potential of these powerful, mind-awakening fungi to help us live better, happier lives through micro- and macro-dosing, this handbook is an indispensable and potentially lifesaving addition to mushroom field guides from the biggest name in mycology.

Molds, Mushrooms, and Medicines : Our Lifelong Relationship with Fungi

by [Money, Nicholas P.](#)

Hardback 19 Mar 2024

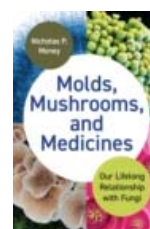
Publisher [Princeton University Press](#)

ISBN: 9780691236308

The hidden role of fungi inside and all around us From beneficial yeasts that aid digestion to toxic molds that cause disease, we are constantly navigating a world filled with fungi.

Molds, Mushrooms, and Medicines 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.

He also sheds light on our complicated relationship with fungi outside the body, from wild mushrooms and cultivated molds that have been staples of the human diet for millennia to the controversial experimentation with magic mushrooms in the treatment of depression. Drawing on the latest advances in mycology, Molds, Mushrooms, and Medicines reveals what scientists are learning about the importance of fungi to our lives, from their vital role in supporting the ecosystems on which we depend to their emerging uses in lifesaving medicine.



Anti-Mycotoxin Strategies for Food and Feed

by [Nagaraju, Deepa \(University of Mysore, Mysuru, Karnataka, India\)](#)

Hardback 5 Jan 2024

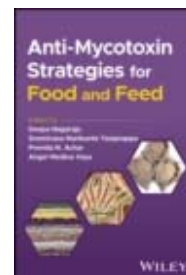
Publisher [John Wiley & Sons Inc](#)

ISBN: 9781394160792

The book provides a combined approach of advanced techniques used against mycotoxigenic fungi, which is helpful in studying the strategies for different mycotoxins. Special attention has been paid to diseases caused by mycotoxigenic fungi and their destructive effect on either preharvest, post-harvest, or storage, and their respective toxins which pose a long-term health risk to humans and animals, if contaminated food or feed enter our food chain.

The primary focus of the text is on the recent and advanced approaches and strategies including control, detoxification, degradation and binding methods, with graphical representations of protocols with supporting tables and figures.

Anti-Mycotoxin Strategies discusses specific sample topics such as: Advanced anti-fumonisin strategies and strategies for the control of aflatoxigenic *Aspergillus* species in contaminated food and feed Innovative strategies to decontaminate Ochratoxin A and Zearalenone. Effects of toxic citrinin, patulin and Ergot alkaloids in animals, birds, and humans, and effective mitigation strategies as its control measures. Detoxification and Decontamination strategies of Deoxynivalenol an emetic toxin, Trichothecenes, T-2/HT-2 toxin and nivalenol associated in food and feed as contaminants. Presenting and discussing mycotoxin management strategies at length and enabling readers to reduce or eliminate health hazards to humans and animals, Anti-Mycotoxin Strategies is an essential resource for mycologists, mycotoxicologists, Microbiologists, Food technology professionals in the food, seed, and feed industries, scientists, students, researchers, and farmers / agriculturists.





LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

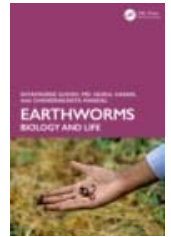
Earthworms : Biology and Life

by [Ghosh, Shyamasree](#) (National Institute of Science Education and Research)

Hardback 4 Feb 2026

Publisher [CRC Press](#)

ISBN: 9781041060772



Earthworms: Biology and Life is a scientifically rich and comprehensive exploration of earthworm biology, diversity, and ecological significance, with a particular emphasis on the Indian subcontinent and its global context.

The book begins with an overview of the global distribution and biogeography of Clitellata and Megadrili, then transitions into a detailed account of India's terrestrial and aquatic earthworm fauna.

By blending regional richness with global insights, the book offers readers a nuanced understanding of species diversity, ecological roles, and habitat specialization across forest floors, agricultural lands, and freshwater ecosystems. What sets this book apart is its integrated approach to the anatomy, physiology, and behavior of earthworms, combined with modern perspectives on their ecological importance, such as the role of gut microbiomes, vermicomposting technologies, and bioindicator functions.

It synthesizes classical taxonomy with recent molecular studies, ensuring both foundational and contemporary scientific coverage.

The inclusion of applied aspects like sustainable agriculture, waste management, and conservation underscores its relevance to both research and real-world applications. Key Features Comprehensive coverage of earthworm taxonomy, including global distribution and Indian species diversity In-depth examination of life cycle, reproductive strategies, and developmental stages Analysis of the anatomy, behavior, and physiology related to feeding, burrowing, and reproduction Detailed exploration of the gut microbiome and its role in nutrient cycling and soil health Emphasis on ecological roles in terrestrial and aquatic environments, including invasive species impacts Thorough discussion on the use of earthworms as bioindicators of soil and environmental quality Practical insights into vermicomposting, organic waste management, and sustainable agriculture Evolutionary perspective linking classical taxonomy with molecular approaches Focus on conservation challenges such as habitat loss, pollution, and pesticide exposure Interdisciplinary approach combining zoology, ecology, environmental science, and applied biology This book is an essential resource for zoologists, ecologists, soil scientists, conservationists, environmental biologists, and students in related fields.

With its integration of taxonomy, physiology, ecology, and applied environmental science, Earthworms: Biology and Life serves both academic and practical needs, offering a holistic and authoritative perspective on one of nature's most important invertebrates.

Whether for research, education, or sustainable development, this book bridges scientific insight with environmental stewardship.

The Evolution of Cetacean Societies : Uncovering the Social Complexity of Whales and Dolphins

by [Croft, Darren P.](#)

Paperback / softback 12 Jan 2026

Publisher [University of Chicago Press](#)

ISBN: 9780226840574



From leading cetacean biologists, an up-to-date, comprehensive collection exploring advancements in our understanding of cetacean ecology, behavior, and societies. Cetaceans—whales, dolphins, and porpoises—represent an evolutionary peak with respect to their advanced cognitive capacities, flexible communication systems, and structured, multilevel societies.

Indeed, the social lives of whales and dolphins have long fascinated scientists and the public alike.

The Evolution of Cetacean Societies provides a comprehensive overview of the significant advancements made in studying cetacean behavior and ecology over the last twenty-five years, focusing on our growing understanding of these animals' complex social lives. Bringing together scientists from multiple disciplines, the volume summarizes key innovations and progress related to studying cetacean societies' cultural and genetic basis, their complex social structures, their use of cooperation and patterns of social conflict, and their significant interactions with humans. Each chapter provides an in-depth account of the social lives of whales and dolphins, incorporating the latest cutting-edge research from genomics, communication, network analysis, and animal culture to explain how these animals form societies, maintain relationships, and share information.



LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

The final chapters focus on the existential threats facing these diverse and charismatic species, how human-cetacean interactions have shaped our perceptions, and what scientists can learn from their diverse social lives by championing researcher diversity in marine mammal science.

The result is an essential and forward-looking book that both contextualizes the lessons of the past two decades and questions the challenges these enigmatic species might face in the future. Published in 2000 by Chicago, Cetacean Societies: Field Studies of Dolphins and Whales, edited by Janet Mann, Richard C.

[A Guide to the Anolis Lizards \(Anoles\) of Mainland Central and South America](#)

by [Poe, Steven](#)

Paperback / softback 9 Sep 2025

Publisher [Princeton University Press](#)

ISBN: 9780691192871

An authoritative treatment of the diverse and beautiful anole lizards of mainland Central and South America. Anoles are highly visible and aesthetically pleasing lizards that are abundant throughout Central and South America.

The subjects of countless evolutionary and ecological studies that have advanced our understanding of basic principles in biology, these colorful reptiles are notoriously difficult to identify, and species names are often confusing and inconsistent.

A Guide to the Anolis Lizards (Anoles) of Mainland Central and South America is the first book to enable the identification of all known species of anole in the region while establishing baseline knowledge for further research.

Drawing on the latest findings, this comprehensive field companion and taxonomic reference is the ultimate guide to these extraordinary lizards. Provides the first stable taxonomy of mainland anoles while aiding field identification of these marvelous neotropical reptiles. Features hundreds of stunning photos depicting most species, including several species never before photographed. Describes the key identification features and natural history of over 200 species of mainland anoles. Facilitates scientific research on evolution, ecology, and species discovery. An ideal travel companion for ecotourists and other visitors to Central and South America. Accompanied by an online identification key.



[Ecological Genomics of Algae](#)

by [Lin, Senjie \(University of Connecticut, USA\)](#)

Hardback 12 Aug 2025

Publisher [CRC Press](#)

ISBN: 9781032382258

Discover the captivating world of algae through the lens of genomics in Ecological Genomics of Algae.

This comprehensive resource explores the evolutionary, ecological, and molecular foundations of algal biology.

Spanning 21 chapters, it delves into genome evolution, environmental adaptation, energy acquisition, nutrient uptake, environmental sensing and signal transduction, stress responses, defense, and algae-microbe interactions.

From unicellular forms to complex seaweeds, this book illuminates how algae navigate their environments and adapt to climate change.

Ideal for researchers and students, it provides cutting-edge insights into the genomic mechanisms driving one of nature's most versatile and essential groups of organisms.



[Three Mosquitoes : The Biology of Deadly Insects](#)

by [Powell, Jeffrey R.](#)

Paperback / softback 12 Aug 2025

Publisher [Johns Hopkins University Press](#)

ISBN: 9781421451695

An engaging introduction to mosquitoes unravels the complex biology, evolution, and natural history of these tiny yet formidable creatures. There are more than 3,700 species of mosquitoes in the world, yet most research has focused on three that have had the greatest health impacts on humans: *Aedes aegypti*, *Anopheles gambiae*, and *Culex pipiens*.

In Three Mosquitoes, renowned Yale biologist Jeffrey R.

Powell provides a comprehensive yet accessible guide to these critical species.

Powell discusses the three mosquitoes' complex biology, distributions, taxonomy, and evolutionary histories, along with their ecological and social implications.





LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

However, rather than describe each species in isolation, the book is arranged by themes and levels of biological organization (molecular, whole organism, and population).

This structure reveals insightful comparisons and highlights important contrasts that might be overlooked if each species were described separately.

Within this context, Powell examines mosquito-microbe associations—focusing mainly on the microbes that cause human disease—and past, present, and future efforts to control mosquito populations to reduce disease transmission.

Whether you are a student, instructor, an entomologist, or a curious reader, this book offers a fascinating exploration of the genetic, ecological, and behavioral intricacies of mosquitoes that highlights their crucial roles in human history and health.

Artificial Intelligence and Animal Ecology : A Review

by [Ghosh, Lidia](#)

Hardback 28 Jul 2025

Publisher [CRC Press](#)

ISBN: 9781032782348

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, species interactions, and environmental adaptation.

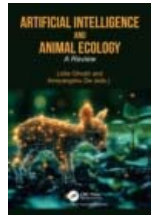
With a strong focus on innovation, it examines groundbreaking AI applications, from bio-inspired algorithms and adaptive learning to breakthroughs in animal communication and behavioral analysis.

Readers will gain valuable insights into how AI deciphers complex ecological dynamics, including navigation, vocal communication, and interspecies relationships.

The book also addresses ethical considerations, ensuring responsible AI integration in ecological research. More than just a review, this book is a call to action.

It empowers researchers, conservationists, and ecologists to embrace AI-driven solutions, fostering interdisciplinary collaboration and expanding the frontiers of ecological knowledge.

As AI continues to evolve, Artificial Intelligence and Animal Ecology: A Review provides a vital roadmap for addressing environmental challenges with innovation and a deeper appreciation of the natural world.



Carrion Ecology, Evolution, and Their Applications

by [Benbow, M. Eric \(Michigan State University, East Lansing, USA\)](#)

Hardback 16 Jul 2025

Publisher [CRC Press](#)

ISBN: 9781032364469

The first edition of Carrion Ecology, Evolution, and Their Applications brought together multiple scientific disciplines to shed light on the importance of carrion within the context of ecology and evolutionary biology, and through applications ranging from human mass disasters to habitat/ecosystem conservation.

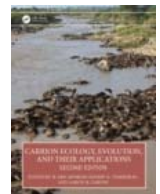
This second edition builds upon this foundation to include a huge amount of new research, consisting of 33 chapters—9 brand new and the remaining 24 substantially updated and expanded.

One of the most significant changes for this edition is the coverage of aquatic ecosystems, both freshwater and marine.

The book is now represented by 73 authors from eight countries, incorporating more diverse perspectives and engagement into this multidisciplinary and expanding science.

The resulting new edition showcases a broader scope of topics, geographic areas, ecosystems and history of carrion ecology, evolution, and their applications for humanity.

It provides the most comprehensive resource on carrion from all ecosystems of the world. The student, academic, and professional will find this book insightful, providing new insights for the fields of molecular ecology, microbiology, entomology, population biology, community and ecosystem ecology, as well as applications in forensics and human and environmental health.



Nonadaptive Selection : An Evolutionary Source of Ecological Laws

by [Damuth, John](#)

Hardback 10 Jul 2025





LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

Publisher [University of Chicago Press](#)
ISBN: 9780226838564

The first comprehensive explanation of a widely applicable but underappreciated mechanism of evolution operating at higher levels of organization than the individual. In this important treatise, ecologists and evolutionary biologists John Damuth and Lev R.

Ginzburg identify a specific evolutionary process in biology, which they call nonadaptive selection.

The idea is simple, but the implications are profound.

Nonadaptive selection, as they use the term, is selection among biological entities (as is natural selection) but is based on the fitness effects of structural properties intrinsic to the entities under selection rather than on interactions between traits and a local shared environment.

In other words, features of systems that evolve by nonadaptive selection do not adapt to local environmental conditions; rather, this selective process increases the long-term stability of the focal systems independent of local conditions.

Nonadaptive selection may be of particular value in explaining broad, persistent patterns in multispecies biological units where adaptive evolution may be weak or poorly defined.

Examples include Damuth's Law, the equivalence of energy use among animal species across a wide range of body sizes; the ratio-dependent, or Arditi-Ginzburg, predation conjecture; the consistency of allometric scaling powers; the shortness of trophic chains; and the prevalence of certain types of three-species trophic structures across ecosystems.

Damuth and Ginzburg see nonadaptive selection underlying patterns of ecological allometries, community structure, and species interactions, with some implications for macroevolution.

Moreover, they find a surprising relationship between these nonadaptive processes and biological laws.

They do not advocate the reorientation of any existing research programs but present nonadaptive selection as an additional conceptual framework that may be useful to add to ecology and evolution.

The Lives of Frogs : A Natural History

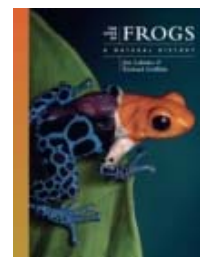
by [Labisko, Dr. Jim \(Lecturer in Biodiversity\)](#)

series [The Lives of the Natural World](#)

Hardback 10 Jun 2025

Publisher [Princeton University Press](#)

ISBN: 9780691255019



A marvelously illustrated introductory guide to frogs and their natural historyFrogs are among the most diverse and adaptable animals on the planet, with a rich evolutionary history and a vitally important role in global ecosystems.

With more than 7,700 species known to exist, they come in all shapes, sizes, and colors, and can be found in habitats ranging from rainforests and frozen tundras to deserts and your own backyard.

This unique guide explores the physiology, behavior, ecology, and evolution of frogs, shedding invaluable light on every facet of their lives, both on land and in the water.

Blending stunning photos and illustrations with engaging and informative profiles of selected species, The Lives of Frogs is an essential introduction to the natural history of these magnificent amphibians. Features a wealth of color images that bring vividly to life the remarkable world of frogs

Representative species profiles cover key topics such as

communication, reproduction, feeding habits, survival tactics, and conservation

Discusses the impact of human activity

on the planet's frog populationsWritten by leading experts and packed with the latest scientific findings

Essential reading

for nature lovers everywhere

Mathematical Properties of Population-Genetic Statistics : Quadratic Forms Most Beautiful

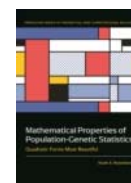
by [Rosenberg, Noah A.](#)

series [Princeton Series in Theoretical and Computational Biology](#)

Paperback / softback 20 May 2025

Publisher [Princeton University Press](#)

ISBN: 9780691168333



A powerful new approach to interpreting population-genetic data in evolution and ecologyPopulation genetics uses statistical analysis to catalog genetic variation among populations and species.

Summary statistics computed from allele frequencies—mathematical functions that measure features of genetic similarity and diversity—are key to this global effort.



LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.

R.F.C. LLS0506166Y5

FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

Yet despite their widespread use in evolutionary biology, ecology, and conservation biology, their mathematical properties have largely been overlooked.

This book shows how to use the mathematical bounds on summary statistics to make better interpretations of population-genetic data. Noah Rosenberg discusses how the behavior of these statistics depends not only on the biology of the populations they seek to describe but also on the mathematical properties of the functions used to compute them, properties that produce constraints on the values of the statistics and influence their interpretation.

Focusing on the concept of homozygosity—a quadratic function of allele frequencies in a population—he demonstrates how to account for mathematical constraints when measuring genetic similarity and diversity.

Rosenberg illustrates the results using examples from empirical data and shares strategies that readers can use to apply this mathematical perspective to different kinds of summary statistics, including those for measuring biodiversity in ecological communities. Drawing inspiration from Charles Darwin, who marveled at evolution's "endless forms most beautiful and most wonderful," this book presents a groundbreaking approach to the study of genetic variation.

It is sure to stimulate new research in population biology and deeper thinking about the meaning and interpretation of essential measurements of the world's genomes.

Aquatic Sciences in the Tropics : Inland Waters, Domain and Nutrient Geochemistry

by [Jana, B.B. \(University of Kalyani, West Bengal, India\)](#)

Hardback 12 Mar 2025

Publisher [CRC Press](#)

ISBN: 9781032859804



The tropical environment is unique due to its geographic location, climatic features, intense solar radiation, high temperature, heavy precipitation, less seasonal variation, enhanced food and productivity, faster metabolism, ecological dynamics and co-evolutionary processes that favor niches for specialized species.

It also provides the richest biodiversity with endemic fish species that support millions of people in rural areas.

This book *Aquatic Sciences in the Tropics: Inland Waters, Domain and Nutrient Geochemistry* comprises nine primary chapters that address various topics.

Chapter 1 covers topics such as Water as a Substance, Water as a Medium, Fundamentals of Global Water Distribution and Hydrologic Cycle, Economics of Water and Challenges; Chapter 2: The Environment, Tropical Environment, Concept of Biosphere and Aquatic Biome, Tropical Aquatic Bionetwork, Tropical Limnology; Chapter 3: Origin of Lakes, General Classification of Lakes, Tropical Lakes, Lake Morphometry, Morpho-Edaphic Index, Trophic State Index of Lakes, Wetlands, Mangroves; Chapter 4: Concept of Stream Order, Streams and Rivers, The River Continuum Concept, Physico-chemical and Biological Features of Streams, Adaptations of Hill Stream Fishes; Chapter 5: Light as an Entity, Thermal Regime, Thermal Stratification, Lake Mixing, Turnover and Circulation; Chapter 6: Sources of CO₂ in Inland Waters, Hydrogen Ion Concentration, The CO₂–CO₃–HCO₃ System, Alkalinity, Hardness; Chapter 7: Dissolved Oxygen, Oxidation and Reduction Potential; Chapter 8: Total Dissolved Solids, Dissolved Organic Carbon; Chapter 9: Origin of Atmospheric Gases, Carbon and Carbon Cycle, Nitrogen, Nitrogen Fixation, Ammonification, Nitrification and Comammox, Denitrification and Anammox, Phosphorus and Sulphur. It is anticipated that the academic community, students, teachers, instructors, researchers, colleges, universities, institutions, administrators, policy makers, public libraries and the general public with an interest in these topics will find this text to be a valuable source of information and provide in-depth knowledge.

Honeybee Ecology : A Study of Adaptation in Social Life

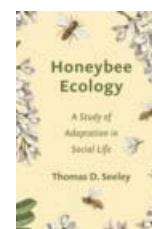
by [Seeley, Thomas D.](#)

series [Monographs in Behavior and Ecology](#)

Hardback 11 Mar 2025

Publisher [Princeton University Press](#)

ISBN: 9780691273617



From the acclaimed author of *Honeybee Democracy*, a classic account of the ecological factors that shape the social lives of honeybees. For many years, research on honeybee social life dealt primarily with the physiological processes underlying the social system of the bee rather than the ecological factors that have shaped its societies.

Thomas Seeley's landmark book unites the two approaches, emphasizing ecological studies of honeybee social behavior while also offering fresh perspectives on honeybee behavior and communication.



LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.
R.F.C. LLS0506166Y5
FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

It covers a broad range of topics, from adaptiveness of worker sterility and the economics of nest construction to information-center foraging, individual versus colony level selection, sex ratio evolution, colonial thermoregulation, evolution of colony defense, and adaptive radiation in colony design.

Honeybee Ecology presents honeybees as a model system for investigating advanced social life among insects from an evolutionary perspective.

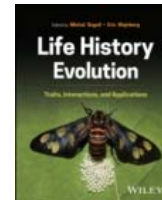
Life History Evolution : Traits, Interactions, and Applications

by [Segoli, Michal \(Jacob Blaustein Institutes for Desert Research, Israel\)](#)

Hardback 21 Feb 2025

Publisher [John Wiley & Sons Inc](#)

ISBN: 9781394185726



Provides a timely and authoritative account of Life History Evolution by a multidisciplinary team of scholars and researchers from around the world Life History Evolution: Traits, Interactions, and Applications presents a cutting-edge synthesis of the mechanisms driving life history strategies that span the breadth of taxa, from bacteria to humans. Integrating classical and contemporary perspectives, this comprehensive volume addresses how organisms evolve traits in response to diverse ecological pressures.

Editors Michal Segoli and Eric Wajnberg bring together leading experts to explore the intersection of evolutionary biology, ecology, and applied research, focusing on the evolving complexity of life history traits and their implications. In-depth yet accessible chapters cover a broad spectrum of life history traits, from classical traits of lifespan and reproduction to more complex interactions like social behaviour, predator-prey dynamics, and human-induced evolutionary processes.

The contributing authors explain essential concepts, identify critical knowledge gaps, discuss future research directions, and demonstrate the relevance of life history evolution in addressing climate change, species invasion, pollution, and more.

Providing a well-balanced understanding of life history traits and their implications, Life History Evolution: Incorporates recent advances in evolutionary theory, including eco-evolutionary feedback loops and anthropogenic impacts Offers diverse perspectives and original research from leading experts in fields such as evolutionary biology, ecology, entomology, zoology, agriculture, and veterinary medicine Discusses life history evolution in the context of co-evolved interactions such as predator-prey, parasite-host, plant-herbivore, and endosymbiont-host relationships Provides an overview of the foundational theory, recent developments, and current thinking in the field Features numerous case studies that highlight real-world applications in biological control, wildlife management, climate change adaptation, and others Revealing how life history traits shape the evolutionary strategies of organisms, Life History Evolution: Traits, Interactions, and Applications is an essential resource for undergraduate and graduate students, researchers, industry professionals, and policymakers in ecological science.

It is an ideal textbook for courses in evolutionary ecology, evolutionary biology, conservation biology, environmental science, and environmental management.

Bacteria to AI : Human Futures with Our Nonhuman Symbionts

by [Hayles, N. Katherine](#)

Paperback / softback 5 Feb 2025

Publisher [University of Chicago Press](#)

ISBN: 9780226837475



A new theory of mind that includes nonhuman and artificial intelligences. The much-lauded superiority of human intelligence has not prevented us from driving the planet into ecological disaster.

For N. Katherine Hayles, the climate crisis demands that we rethink basic assumptions about human and nonhuman intelligences.

In Bacteria to AI, Hayles develops a new theory of mind—what she calls an integrated cognitive framework (ICF)—that includes the meaning-making practices of lifeforms from bacteria to plants, animals, humans, and some forms of artificial intelligence.

Through a sweeping survey of evolutionary biology, computer science, and contemporary literature, Hayles insists that another way of life, with ICF at its core, is not only possible but necessary to safeguard our planet's future



LSR LIBROS, SERVICIOS Y REPRESENTACIONES. S.A. DE C.V.

R.F.C. LLS0506166Y5

FUENTE DE LAS AGUILAS NO 131, LOMAS DE
TECAMACHALCO, NAUCALPAN, EDO. MEX. MEXICO, CP 53950

Insect Ecomorphology : Linking Functional Insect Morphology to Ecology and Evolution

by Betz, Oliver, PhD (University of Tübingen, Tübingen, Germany)

Paperback / softback 1 Feb 2025

Publisher [Academic Press Inc](#)

ISBN: 9780443185441



Insect Ecomorphology: Linking Functional Insect Morphology to Ecology and Evolution offers up-to-date knowledge and understanding of the morphology of insects and the functional basis of their diversity.

This book covers the form and function of insect body structures in relation to their physiological performance capabilities, biological roles, and evolutionary histories.

Written by international experts, the book explores the ecomorphology of functional systems such as insect feeding, locomotion, sensing, and egg laying.

The combination of conceptual and review chapters, methodological approaches, and case studies enables readers to delve into active research fields and to gain an understanding of the form-function-performance paradigm. This book uncovers key structures of the various regions of the insect body, elucidates their function, and investigates their ecological and evolutionary implications.

Insect Ecomorphology is thus a vital resource for entomologists, biologists, and zoologists, especially those seeking to understand more fully the morphology and physiological impacts of insects in correlation to their environments and to evolution.