

Keys To The Trematoda Cabi

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Digenetic Trematodes of Indian Marine Fishes - Rokkam Madhavi
2018-09-26

This book is the first to explore in detail the systematics and taxonomy of the digenean fauna of fish in Indian marine waters. It includes morphological descriptions of 648 species in 190 genera and 30 families. The figures from the original publications are enhanced and made more attractive. Each description is accompanied by information on hosts and distribution. Digenetic trematodes, usually known as Digeneans, are the most diverse group of metazoan parasites of marine fishes. They are parasitic flatworms (Phylum Platyhelminthes) with a complex life-cycle and as adults inhabit mainly the alimentary system and associated organs, but also occur in the blood, under the scales, in the body cavity and in the gall and urinary bladders. Keys to families, genera and species are provided, except for a few large and controversial genera, where morphological characters are insufficient for identification. Although there is extensive literature on Digeneans, it is scattered and largely in obscure local journals. Bringing together most of the primary literature on the subject, this book provides a primer for further study and a starting point for the use of modern molecular methods for the fauna of this region. Unique in its scope, it is a valuable resource for students, professional parasitologists and ecologists as well as fishery and wildlife biologists.

Biocontrol Agents - Mahfouz M M Abd-Elgawad 2017-07-12

This book describes entomopathogenic and slug parasitic nematodes as potential biocontrol agents in crop insect and slug pest management. Addressing research on these two nematodes from tropical, subtropical and temperate countries, it covers the new techniques and major developments regarding mass production, formulation, application, commercialization and safety measures. Plans for future strategies to make these beneficial nematodes cost-effective and expand their use by including them in integrated pest management programmes in different agro-ecosystems are also discussed. Biocontrol Agents: Entomopathogenic and Slug Parasitic Nematodes provides a comprehensive review of the topic and is an essential resource for researchers, industry practitioners and advanced students in the fields of biological control and integrated pest management.

Digenetic Trematodes - Rafael Toledo 2019-07-11

Digenetic trematodes constitute a major helminth group that parasitize human and animals and are a major cause of morbidity and mortality. The diseases caused by trematodes have been neglected for years, especially as compared with other parasitic diseases. However, the geographical limits and the populations at risk are currently expanding and changing in relation to factors such as growing international markets, improved transportation systems, and demographic changes.

This has led to a growing international interest to the trematode infections, although factors such as the difficulties entailed in the diagnosis, the complexity of human and agricultural practices, the lack of assessments of the economic costs, or the limited number of effective drugs are preventing the development of control measures of these diseases in humans and livestock. In-depth studies are needed to clarify the current epidemiology of these helminth infections and to identify new and specific targets for both effective diagnosis and treatments. The main goal of the second edition of this book is to present the major trematodes and their corresponding diseases in the framework of modern parasitology, considering matters such as the application of novel techniques and analysis of data in the context of host-parasite interactions and to show applications of new techniques and concepts for the studies on digenetic trematodes. This is an ideal book for parasitologists, microbiologists, zoologists, immunologists, professional of public health workers, clinicians and graduate and post-graduate students.

Parasites - Scott Lyell Gardner 2022-11-15

An exciting look at the essential roles that parasites play in Earth's ecosystems This book looks at the weird and wonderful world of parasites, the most abundant form of life on Earth. Parasites come in all forms and sizes and inhabit every free-living organism. Parasitism is now, and always has been, a way to survive under changing environmental conditions. From arctic oceans to tropical forests, Scott Gardner, Judy Diamond, and Gabor Racz investigate how parasites survive and evolve, and how they influence and provide stability to ecosystems. Taking readers to the open ranges of Mongolia, the Sandhills of north-central Nebraska, the Andes of Bolivia, and more, the authors examine the impact parasites have on humans and other animals. Using examples of parasites from throughout the tree of life, the authors describe parasite-host relationships as diverse as those between trematodes and snails and tapeworms and whales. They even consider the strange effects of thorny-headed worms on their hosts. Parasites offer clues to the evolutionary history of particular regions, and they can provide insights into the

history of species interactions. Through parasites, biologists can weave together a global knowledge of the past to predict the challenges that we will face in the future. Revealing that parasites are so much more than creepy-crawlies, this book gives up-to-date context for these critical members of the biological diversity of our planet.

Health of Antarctic Wildlife - Knowles R. Kerry 2009-07-29

comprehensively up to date. We are most grateful to these authors and to those we recruited to write the additional chapters necessary to fill the significant gaps. We acknowledge also the sacrifice of some who presented results of original research and have thus suffered a longer time than usual to publication. The timing of publication however has provided the opportunity to highlight recent discussions and resolutions made within the Antarctic Treaty forum to protect wildlife against disease and to include responses by Government and non-Government operators in Antarctica. These developments mostly followed from the Workshop on Diseases of Antarctic Wildlife. The book comprises 17 chapters presented in two parts. Wildlife disease consists of reviews, case studies and health assessments, and External factors covers the environmental, administrative and legal aspects. Each chapter is complete and contains all references. Six important documents are provided as Appendices. These present methods, reviews and other documents which are referred to in one or more chapters but are not readily available. There are many related topics we have been unable to cover that would enhance the understanding of health and disease processes in Antarctica. While we acknowledge their importance they are outside the scope of the present volume. Such topics include epidemiology, new and emerging infectious diseases and the effects of climate change. These topics are referred to in the various chapters where references to source material are given.

Stock Identification Methods - Steven X. Cadrin 2013-10-04

Stock Identification Methods, 2e, continues to provide a comprehensive review of the various disciplines used to study the population structure of fishery resources. It represents the worldwide experience and perspectives of experts on each method, assembled through a working

group of the International Council for the Exploration of the Sea. The book is organized to foster interdisciplinary analyses and conclusions about stock structure, a crucial topic for fishery science and management. Technological advances have promoted the development of stock identification methods in many directions, resulting in a confusing variety of approaches. Based on central tenets of population biology and management needs, this valuable resource offers a unified framework for understanding stock structure by promoting an understanding of the relative merits and sensitivities of each approach. Describes 18 distinct approaches to stock identification grouped into sections on life history traits, environmental signals, genetic analyses, and applied marks. Features experts' reviews of benchmark case studies, general protocols, and the strengths and weaknesses of each identification method. Reviews statistical techniques for exploring stock patterns, testing for differences among putative stocks, stock discrimination, and stock composition analysis. Focuses on the challenges of interpreting data and managing mixed-stock fisheries.

The Biology and Evolution of Trematodes - K. V. Galaktionov
2003-10-31

The book by K. V. Galaktionov and A. A. Dobrovolskij maintains the tradition of monographs devoted to detailed coverage of digenetic trematodes in the tradition of B. Dawes (1946) and T. A. Ginetsinskaya (1968). In this respect, the book is traditional in both its form and content. In the beginning (Chapter 1), the authors provide a consistent analysis of the morphological features of all life cycle stages. Importantly, they present a detailed characterization of sporocysts and rediae whose morphological-functional organization has never been comprehensively described in modern literature. The authors not only list morphological characteristics, but also analyze the functional significance of different morphological structures and hypothesize about their evolution. Special attention is given to specific features of morphogenesis in all stages of the trematode life cycle. On this basis, the authors provide several original suggestions about the possible origins of morphological evolution of the parthenogenetic (asexual) and the hermaphroditic generations. This is

followed by a detailed consideration of the various morphological-biological adaptations that ensure the successful completion of the complex life cycles of these parasites (Chapter 2). Life cycles inherent in different trematodes are subject to a special analysis (Chapter 3). The authors distinguish several basic types of life cycles and suggest an original interpretation of their evolutionary origin. Chapter 4 features the analysis of structure and the dynamics of trematode populations and is unusual for a monograph of this type.

Micromammals and Macroparasites - S. Morand 2007-01-27

This book provides a comprehensive survey of the diversity and biology of metazoan parasites affecting small mammals, of their impact on host individuals and populations, and of the management implications of these parasites for conservation biology and human welfare. Designed for a broad, multidisciplinary audience, the book is an essential resource for researchers, students, and practitioners alike.

A Dictionary of Entomology - 2011

Incorporating an estimated 43,000 definitions, this major reference work is a comprehensive, fully cross-referenced collection of terms, names and phrases used in entomology. It is the only listing that covers insect anatomy, behaviour, biology, ecology, histology, molecular biology, morphology, pest management, taxonomy and systematics. Common names, scientific binomen and taxonomic classifications are provided as well as order, suborder, superfamily, family and subfamily names and diagnostic features of orders and families. With new and updated terms, particularly in molecular biology, phylogeny and spatial technology, this revised new edition of A Dictionary of Entomology is an essential reference for researchers and students of entomology and related disciplines.

Systema Helminthum. - Satyu Yamaguti 1958

Handbook of Diseases of Banana, Abaca and Enset - David R Jones
2018-12-14

This book provides a comprehensive guide to the large number of diseases, disorders and injuries that can cause severe economic losses to

banana, abacá and enset crops, and the fungi, bacteria, phytoplasmas, viruses, nematodes and abiotic factors involved. The monoculture of certain banana cultivars in large plantations make the crop particularly susceptible to catastrophic losses from disease and smallholders can also experience major problems. New approaches to breeding, crop management and handling are being developed to meet challenges posed by emerging threats. Handbook of Diseases of Banana, Abacá and Enset both describes and illustrates diseases and is printed in full colour throughout, creating a valuable diagnostic tool. It covers: - The origin and classification of banana, the safe movement of Musa germplasm and banana breeding for disease resistance. - Recent areas of growing research on the most important diseases of banana, such as black leaf streak, Fusarium wilt, Xanthomonas bacterial wilt and bunchy top. - Significant advances relating to pathogens causing less serious and widespread diseases. Authored by an international team of experts, this is an essential reference for all 'banana doctors' around the world. It serves as a useful field and laboratory guide, as well as a source of information for all those investigating diseases of banana, abacá and enset crops.

Fungal Families of the World - P. F. Cannon 2007-01-01

The Dictionary of the Fungi has been published continuously by CABI from its outset in 1943 to the latest (tenth) edition in 2008. The primary feature of the Dictionary is an authoritative consensus classification of the fungi, that has been widely accepted as an enabling and informing framework for research into pure and applied mycology. Fungal Families of the World has been conceived as an illustrative and more approachable companion to the Dictionary. Second it provides further substantial information on the 536 currently accepted families of Fungi, with more detailed descriptions and notes on ecology, economic uses, and the like. Third (and perhaps most importantly), it depicts the extraordinary range of morphological structures found in fungi, celebrating myco-diversity and perhaps stimulating interest in mycology by those individuals outside the inner circle of fungal systematists. The taxonomic framework for Fungal Families of the World is based upon

that of the ninth edition of Dictionary but has been substantially updated to confirm with the findings of two major US-led research projects on fungal systematics, popularly referred to as Deep Hydra and AFTOL (Assembling the Fungal Tree of Life). The book contains images for over 400 families of the Fung, representing substantially wider fungal diversity than has been achieved before in a single publication. Where practical illustration of both macroscopic and microscopic features have been included. Fungal Families of the World will be of great value to students and researchers in biology, ecology and conservation, to mycologists, agriculturalists and foresters and serves as an informative companion to the Dictionary of the Fungi.

Diagnosis and Control of Diseases of Fish and Shellfish - Brian Austin 2017-09-25

There has been a continual expansion in aquaculture, such that total production is fast approaching that of wild-caught fisheries. Yet the expansion is marred by continued problems of disease. New pathogens emerge, and others become associated with new conditions. Some of these pathogens become well established, and develop into major killers of aquatic species. *Diagnosis and Control of Diseases of Fish and Shellfish* focuses on the diagnosis and control of diseases of fish and shellfish, notably those affecting aquaculture. Divided into 12 chapters, the book discusses the range of bacterial, viral and parasitic pathogens, their trends, emerging problems, and the relative significance to aquaculture. Developments in diagnostics and disease management, including the widespread use of serological and molecular methods, are presented. Application/dose and mode of action of prebiotics, probiotics and medicinal plant products used to control disease are examined, as well as the management and hygiene precautions that can be taken to prevent/control the spread of disease. This book will be a valuable resource for researchers, students, diagnosticians, veterinarians, fish pathologists and microbiologists concerned with the management of diseases of fish and shellfish.

Parasitic Diseases of Wild Birds - Carter T. Atkinson 2009-03-20

Parasitic Diseases of Wild Birds provides thorough coverage of major

parasite groups affecting wild bird species. Broken into four sections covering protozoa, helminths, leeches, and arthropod parasites, this volume provides reviews of the history, disease, epizootiology, pathology, and population impacts caused by parasitic disease. Taking a unique approach that focuses on the effects of the parasites on the host, *Parasitic Diseases of Wild Birds* fills a unique niche in animal health literature.

The Biology of Echinostomes - Bernard Fried 2009-04-21

Echinostomes are medically- and veterinary-important parasitic flatworms that invade humans, domestic animals and wildlife and also parasitize in their larval stages numerous invertebrate and cold-blooded vertebrate hosts. The interest in echinostomes in parasitology and general biology comes from several areas: (1) Human infections; (2) Experimental models; (3) Animal infections; (4) Systematics. The application of novel techniques is moving the echinostomes to the frontline of parasitology in fields such as systematics, immunobiology in vertebrate and invertebrate organisms and proteomics among others. *The Biology of Echinostomes* demonstrates the application of new techniques to a group of trematodes that may serve to obtain information of great value in parasitology and general biology. The book includes basic topics, such as biology and systematics, as well as more novel topics, such as immunobiology, proteomics, and genomics of echinostomes. The authors of each chapter emphasize their content with: (i) the most novel information obtained; (ii) analysis of this information in a more general context (i.e. general parasitology); and (iii) future perspectives in view of the information presented. The subjects are analyzed from a modern point of view, considering aspects such as applications of novel techniques and an analysis of host-parasite interactions.

Mason's World Dictionary of Livestock Breeds, Types and Varieties, 6th Edition - Valerie Porter 2020-05-26

Mason's World Dictionary of Livestock Breeds, Types and Varieties, now in its sixth edition, has a long history as a reliable and authoritative source of key livestock breed information. Intended as a list of livestock

names and synonyms for breeds, groups, types and varieties worldwide, the dictionary aims to include all names found in the literature, 'defining' each breed or type with a brief indication of identifying characteristics, uses and source of origin.

Advances in Parasitology - 2017-09-21

Advances in Parasitology, Volume 98, first published in 1963, contains comprehensive and up-to-date reviews on all areas of interest in contemporary parasitology. The latest release in this series contains chapters on The battle against flystrike - past research and new prospects through genomics, Life history, systematics and evolution of the Diplostomoidea Poirier, 1886: progress, promises and challenges emerging from molecular studies, Hook, line and infection: a guide to culturing parasites, establishing infections and assessing immune responses in the three-spined stickleback, and *Trypanosoma congolense*: a molecular toolkit and resources for studying a major livestock pathogen and model trypanosome. The series includes medical studies of parasites of major influence, such as *Plasmodium falciparum* and trypanosomes. The series also contains reviews of more traditional areas, such as zoology, taxonomy, and life history, which help to shape current thinking and applications. Informs and updates on all the latest developments in the field of parasitology Includes medical studies of parasites of major influence, such as *Plasmodium falciparum* and trypanosomes“/li> Contains contributions from leading authorities and industry experts Features reviews of more traditional areas, such as zoology, taxonomy, and life history, which help to shape current thinking and applications

Keys to the Trematoda - David Ian Gibson 2002

This text, in three volumes, presents a detailed revision of the systematics and taxonomy of the platyhelminth class Trematoda, subclasses Aspidogastrea and Digenea. These parasites attack animals and humans and have a great economic impact.

The Giant Liver Fluke, *Fascioloides magna*: Past, Present and Future Research - Ivica Králová-Hromadová 2016-02-22

This monograph presents complex data on *Fascioloides magna* from all

aspects of its research (general information, distribution, spectrum of hosts) and summarizes the latest information on molecular structure of informative genes which were recently applied in resolving taxonomy and biogeography of this veterinary important parasite. The giant liver fluke, *Fascioloides magna*, is important liver parasite of free-living and domestic ruminants. Due to its biology, distribution, medical impact, and invasive character, this liver fluke attracts attention of wide spectrum of specialists - veterinary doctors, hunters and farmers, as well as scientists. The parasite utilizes wide range of free living and domestic ruminants as definitive hosts, with various pathological impacts ranging from moderate infections towards lethal effects. *Fascioloides magna* is of North American origin where it occurs in five enzootic regions. It was introduced to Europe along with its deer hosts in 19th century and it has established three permanent natural foci. The giant liver fluke represents an outstanding model for studying the origin, spatial distribution, migratory routs, and invasion processes of introduced species.

Bovine Pathology - Claus D Buergelt 2018-05-01

Illustrated with over 1000 color images of the highest quality, *Bovine Pathology: A Text and Color Atlas* is a comprehensive single resource to identifying diseases in dairy cattle, feedlot cattle, and their calves. With summary text describing key features, the book correlates clinical information with pathology and differential diagnoses. The text covers naked-eye macroscopic appearance, through to microscopic pathology, and the immunohistochemistry of infectious agents and tumor markers. Structured by major organ system, the disease entries follow a consistent format and clarity of display. Serving as an essential reference work for veterinary pathologists who perform bovine necropsies, veterinary residents and students, the book is also practical enough for bovine practitioners who need to investigate sudden death losses of cattle on the farm.

Approaches to Research on the Systematics of Fish-Borne

Trematodes - Jitra Waikagul 2014-02-17

Approaches to Research on the Systematics of Fish-Borne Trematodes is a concise guide for systematic studies of the prevalence of fish-borne

trematodes both in the endemic areas and experimental laboratories. It includes methods to identify species of fish-borne trematodes to enhance the precision of research studies based on the metacercarial stage. Misidentification of trematode species is a common occurrence when researchers are new to the field and have no guidance. Consequentially, sometimes publications report inaccurate prevalence rates of these parasites. This compact guide gives clear direction on: Collection of parasites in the final hosts Collection of cercaria from snail first intermediate hosts Collection of metacercaria from fish hosts Molecular identification of parasites Systematics of fish-borne trematodes Provides research guidelines and protocols for studying systematics of fish-borne trematodes using both morphological and molecular data Presents keys to enable identification of metacercariae of fish-borne trematodes in the Greater Mekong subregion

Gulf of Mexico Origin, Waters, and Biota - Darryl L. Felder 2009

This landmark scientific reference for scientists, researchers, and students of marine biology tackles the monumental task of taking a complete biodiversity inventory of the Gulf of Mexico with full biotic and biogeographic information. Presenting a comprehensive summary of knowledge of Gulf biota through 2004, the book includes seventy-seven chapters, which list more than fifteen thousand species in thirty-eight phyla or divisions and were written by 138 authors from seventy-one institutions in fourteen countries. This first volume of *Gulf of Mexico Origin, Waters, and Biota*, a multivolumed set edited by John W. Tunnell Jr., Darryl L. Felder, and Sylvia A. Earle, provides information on each species' habitat, biology, and geographic range, along with full references and a narrative introduction to the group, which opens each chapter.

Keys to the Nematode Parasites of Vertebrates - Roy Clayton Anderson 2009

Reprint of: *CIH keys to the nematode parasites of vertebrates*. Farnham Royal: Commonwealth Agricultural Bureaux, 1974-1983.

Taenia Solium Cysticercosis - Gagandeep Singh 2002

Taenia solium cysticercosis is a parasitic disease caused by the

dissemination of the larval form of the pork tapeworm and affects an estimated 50 million people worldwide. It is endemic in several developing countries, including many in Central and South America, Africa and South Asia. Through increased immigration and international travel, it is also of emerging significance in developed countries such as the USA. This book, written by international leading experts in the field, covers the basic science and clinical aspects of *Taenia solium*, its pathology, investigational aspects of neurocysticercosis, and therapy and prevention

Marine Parasitology - Klaus Rohde 2005-09-13

This comprehensive, authoritative and up-to-date work provides the definitive overview of marine parasites worldwide. It is an invaluable reference for students and researchers in parasitology and marine biology and will also be of interest to ecologists, aquaculturists and invertebrate biologists. Initial chapters review the diversity and basic biology of the different groups of marine parasites, discussing their morphology, life cycles, infection mechanisms and effects on hosts. The ecology and importance of marine parasites are discussed in the second part of the book, where contributions investigate behavioural and ecological aspects of parasitism and discuss the evolution and zoogeography of marine parasites. In addition, the economic, environmental and medical significance of these organisms is outlined, particularly their importance in aquaculture and their effects on marine mammals and birds. Written by an international team of contributors, the emphasis is on a thorough grounding in marine parasitology combined with reviews of novel concepts and cutting-edge research.

Keys to the Trematoda - David Ian Gibson 2002

This book, in three volumes, presents a detailed revision of the systematics and taxonomy of the platyhelminth class Trematoda, subclasses Aspidogastrea and Digenea, with keys for the identification of these parasites at the superfamily, family, subfamily and generic levels. The trematodes are parasitic worms infecting all vertebrate groups and include families of significance to human and animal health, with considerable economic impact. The first volume covers the subclass

Aspidogastrea and order Strigeida, while the second and third volumes cover the orders Echinostomida and Plagiorchiida.

Molecular Detection of Human Parasitic Pathogens - Dongyou Liu 2012-07-05

Traditionally, laboratory identification of parasites has relied upon various phenotypic procedures that detect their morphological, biological, and immunological features. Because these procedures tend to be time-consuming and technically demanding, molecular methods based on nucleic acid amplification technologies have been increasingly utilized for rapid, sensitive, and specific characterization of parasites. The large number of original and modified molecular protocols that have been developed over the years creates a dilemma for those attempting to adopt the most appropriate protocol for streamlined identification and detection of human pathogenic organisms of interest. Part of a four-volume collection, *Molecular Detection of Human Parasitic Pathogens* provides a reliable and comprehensive resource on the molecular detection and identification of major human parasitic pathogens. This volume contains expert contributions from international scientists involved in human parasitic pathogen research and diagnosis. Following a similar format throughout, each chapter includes: A brief review on the classification, biology, epidemiology, clinical features, and diagnosis of an important pathogenic parasitic genus/group An outline of clinical sample collection and preparation procedures and a selection of representative stepwise molecular protocols A discussion on further research needs relating to improved diagnoses of major human parasitic pathogens This versatile reference on molecular detection and identification of major human parasitic pathogens is an indispensable tool for upcoming and experienced medical, veterinary, and industrial laboratory scientists engaged in parasite characterization. It is also suitable as a textbook for undergraduate and graduate students majoring in parasitology.

Digenetic Trematodes - Rafael Toledo 2014-06-05

Digenetic trematodes constitute a major helminth group that parasitize humans and animals, and are a major cause of morbidity and mortality.

The diseases caused by trematodes have been neglected for years, especially as compared with other parasitic diseases. However, the geographical limits and the populations at risk are currently expanding and changing in relation to factors such as growing international markets, improved transportation systems, and demographic changes. This has led to a growing international interest in trematode infections, although factors such as the difficulties entailed in the diagnosis, the complexity of human and agricultural practices, the lack of assessments of the economic costs or the limited number of effective drugs are preventing the development of control measures of these diseases in humans and livestock. In-depth studies are needed to clarify the current epidemiology of these helminth infections and to identify new and specific targets for both effective diagnosis and treatments. The main goal of this book is to present the major trematodes and their corresponding diseases in the framework of modern parasitology, considering matters such as the application of novel techniques and analysis of data in the context of host-parasite interactions and to show applications of new techniques and concepts for the studies on digenetic trematodes. This is an ideal book for parasitologists, microbiologists, zoologists, immunologists, professional of public health workers, clinicians and graduate and post-graduate students.

A Checklist of Host-Parasite Interactions of the Order Crocodylia - Marisa Tellez 2014-05-15

Records of parasitism in crocodilians date back to the early 1800s, distributed among various types of published and unpublished materials. Analyzing parasite-host specificity, geographic distribution, and taxonomy can provide otherwise cryptic details about crocodilian ecology and evolution, as well as their local food web dynamics. This information is critical for improved conservation tactics for both crocodilians and their habitat. As climate change, anthropogenic conflict, and environmental pollution endanger crocodilian ecosystems, there is a need for organized information on crocodile, alligator, caiman, and gharial infectious diseases. This volume meets this need by delivering the first checklist of crocodilians and their parasites for researchers and

scholars in biology, herpetology, and ecology in order to further the knowledge and study of crocodilian-parasite dynamics and improve our understanding of human impacts on ecosystems.

Molecular Systematics of Parasitic Helminths - Urusa Thaenkham 2022-05-25

This book aims to provide fundamental knowledge and information for research in molecular systematics on parasitic helminths (nematode, trematode, cestode). The shreds of evidence of molecular systematics studies will be compiled and discussed in terms of the utilities and pitfalls of the genetic marker used for various purposes, which have been implemented for molecular systematics of parasitic nematodes, cestodes, and trematodes. Moreover, this book will also provide the procedure for research on molecular systematics and DNA taxonomy as the guideline to explore parasitic helminths. Finally, the further perspectives of utilizing genetic markers for molecular studies on parasitic helminths will be addressed in the context of applications from the laboratory to fieldwork such as DNA barcoding and environmental DNA metabarcoding of parasitic helminths. The book will benefit postgraduate students and researchers requiring the detailed knowledge of molecular systematics, as well as researchers desiring a guideline to select genetic markers and analyze DNA sequences to make phylogenetic inferences

Fish Diseases (2 Vols.) - Jorge Eiras 2008-01-09

Diseases are a major threat to both wild and farmed fish. Pathogen-induced alterations in viability and growth of wild fish stocks can have implications on diversity and ecological status of aquatic ecosystems, as fish are main components of aquatic communities, and they can directly affect the exploitation of wild and farmed fish as a protein source

Parasite Diversity and Diversification - Serge Morand 2015-02-26

By joining phylogenetics and evolutionary ecology, this book explores the patterns of parasite diversity while revealing diversification processes.

A Handbook of Environmental Toxicology - J.P.F. D'Mello 2019-12-04

Written by an international team of authors from a range of educational, medical and research establishments, this book is an essential reference for advanced students and researchers in the areas of environmental

sciences, ecology, agriculture, environmental health and medicine, in addition to industry and government personnel responsible for environmental regulations and directives. A Handbook of Environmental Toxicology focuses on two key aspects: human disorders and ecotoxicology as affected by major toxins originating from biological sources and pollutants, as well as radiation generated spontaneously or as a result of anthropogenic activity. A diverse array of these potentially harmful agents regularly appear in the atmosphere, soil, water and food, compromising both human health and biodiversity in natural and managed ecosystems.

Biotechnology of Fruit and Nut Crops, 2nd Edition - Richard E. Litz
2020-01-29

This book covers the biotechnology of all the major fruit and nut species. Since the very successful first edition of this book in 2004, there has been rapid progress for many fruit and nut species in cell culture, genomics and genetic transformation, especially for citrus and papaya. This book covers both these cutting-edge technologies and regeneration pathways, protoplast culture, in vitro mutagenesis, ploidy manipulation techniques that have been applied to a wider range of species. Three crop species, *Diospyros kaki* (persimmon), *Punica granatum* (pomegranate) and *Eriobotrya japonica* (loquat) are included for the first time. The chapters are organized by plant family to make it easier to make comparisons and exploitation of work with related species. Each chapter discusses the plant family and the related wild species for 38 crop species, and has colour illustrations. It is essential for scientists and post graduate students who are engaged in the improvement of fruit, nut and plantation crops.

The Encyclopedia of Sustainable Tourism - Carl I Cater 2015-10-01

Tourism is the world's fastest growing industry, and impacts globally upon ecology, economies, peoples, cultures and the built environment. Development, therefore, must be sustainable and sympathetic in order to preserve the environment and culture it exploits. Despite sustainable tourism being an area of considerable recent interest, there has been no synthesis of the diverse considerations of sustainable tourism, and the

language and terms particular to this subject. An important resource for researchers of tourism, this reference work defines and explains terms associated with considering and preserving the environment, host peoples, communities, cultures, customs, lifestyles and social and economic systems.

The Biology and Evolution of Trematodes - K. V. Galaktionov 2013-12-01

The book by K. V. Galaktionov and A. A. Dobrovolskij maintains the tradition of monographs devoted to detailed coverage of digenetic trematodes in the tradition of B. Dawes (1946) and T. A. Ginetsinskaya (1968). In this respect, the book is traditional in both its form and content. In the beginning (Chapter 1), the authors provide a consistent analysis of the morphological features of all life cycle stages. Importantly, they present a detailed characterization of sporocysts and rediae whose morphological-functional organization has never been comprehensively described in modern literature. The authors not only list morphological characteristics, but also analyze the functional significance of different morphological structures and hypothesize about their evolution. Special attention is given to specific features of merogony in all stages of the trematode life cycle. On this basis, the authors provide several original suggestions about the possible origins of morphological evolution of the parthenogenetic (asexual) and the hermaphroditic generations. This is followed by a detailed consideration of the various morphological-biological adaptations that ensure the successful completion of the complex life cycles of these parasites (Chapter 2). Life cycles inherent in different trematodes are subject to a special analysis (Chapter 3). The authors distinguish several basic types of life cycles and suggest an original interpretation of their evolutionary origin. Chapter 4 features the analysis of structure and the dynamics of trematode populations and is unusual for a monograph of this type.

Handbook of Scales in Tourism and Hospitality Research - Dogan Gursoy
2014-12-18

As the field of tourism and hospitality experiences maturity and scientific sophistication, researchers need to fully understand the breadth and depth of existing scales that help explain, understand, monitor, and

predict not only behaviour but also consequences of such behaviour as a function of demand and supply interactions in the field. By introducing the importance of measurement and scales and providing groupings of existing scales The Handbook of Scales in Tourism and Hospitality Research serves as the state of the art reference book in the field of tourism, hospitality and allied fields such leisure, recreation, and services management .

The Trematoda of British Fishes - Ben Dawes 2018-02-20

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Manson's Tropical Diseases E-Book - Jeremy Farrar 2013-10-26

From the difficult to diagnose to the difficult to treat, Manson's Tropical Diseases prepares you to effectively handle whatever your patients may have contracted. Featuring an internationally recognized editorial team, global contributors, and expert authors, this revised and updated medical reference book provides you with the latest coverage on parasitic and

infectious diseases from around the world. Consult this title on your favorite e-reader, conduct rapid searches, and adjust font sizes for optimal readability. Incorporate the latest therapies into your practice, such as recently approved drugs and new treatment options. Find what you need easily and apply it quickly with highlighted key information, convenient boxes and tables, extensive cross-referencing, and clinical management diagrams. Make the most accurate Tropical Disease diagnoses through a completely redesigned and modernized format, which includes full-color images throughout. Apply the latest treatment strategies for HIV/AIDS, tropical neurology, malaria, and much more. Put the latest international expertise to work for you and your patients with new chapters covering Global Health; Global Health Governance and Tropical Diseases; Non-communicable Diseases; Obesity in the Tropics; and Emergency and Intensive Care Medicine in Resource-poor Settings. See which diseases are most prevalent in specific areas of the tropics through a new index of diseases by country, as well as online-only maps that provide additional detail. Better understand the variations in treatment approaches across the globe.

Keys to the Nematode Parasites of Vertebrates - Lynda M. Gibbons 2010

For many years the Keys have provided a working tool to those within the field and laboratory needing to know "what is this worm?" They have also helped to establish a classification, using associations of characters, that gives real insight into nematode relationships across the group and their lines of evolution. This supplementary volume is designed to complement the original CIH Keys, now reprinted as one volume, with the additional convenience of reordering into superfamily. The supplement includes revised and redescribed taxa and draws attention to new taxa, to generic level, published by many authors after the original Keys were complete. It also identifies the current position of some of the older genera not included in the original Keys.