

Reproductive Biology Of Invertebrates Volume 11 Progress In Asexual Reproduction

Cancer Stem Cells - Stanley Shostak 2011-08-01

Over the last thirty years, the foremost inspiration for research on metastasis, cancer recurrence, and increased resistance to chemo- and radiotherapy has been the notion of cancer stem cells. The twenty-eight chapters assembled in *Cancer Stem Cells - The Cutting Edge* summarize the work of cancer researchers and oncologists at leading universities and hospitals around the world on every aspect of cancer stem cells, from theory and models to specific applications (glioma), from laboratory research on signal pathways to clinical trials of bio-therapies using a host of devices, from solutions to laboratory problems to speculation on cancers' stem cells' evolution. Cancer stem cells may or may not be a subset of slowly dividing cancer cells that both disseminate cancers and defy oncotoxic drugs and radiation directed at rapidly dividing bulk cancer cells, but research on cancer stem cells has paid dividends for cancer prevention, detection, targeted treatment, and improved prognosis.

Subject Guide to Books in Print - 1993

Fertilization in Protozoa and Metazoan Animals - Juan J. Tarin 2012-12-06

Reproduction is the origination of new organisms from pre-existing ones. Among more than 35 separated forms of reproduction including several types of gamogony, parthenogenesis, agamogenesis, fission and division, and plas motomy, the bisexual mode of reproduction via fertilization provides genetic variability that allows species to adapt quickly to competitive and constantly changing environments. Several excellent reviews and books have been written in the past to analyse the mechanisms of fertilization in different eukaryotic species. During the last few years, however, renewed attention has been paid to examining the process of oocyte fertilization at the cellular/molecular level not only within a single species/group but also through different phylogenetic lineages. As a result of this effort, knowledge of the molecular pathways used by oocytes and spermatozoa at fertilization has increased, but still many questions remain to be answered. Being aware of the necessity of providing an integrated view of the process of fertilization, this book has been entirely devoted to reviewing the process of oocyte fertilization at the cellular/molecular level in two different and separated groups of eukaryotic organisms: protozoa and metazoan animals. The book is organized into six sections dealing with oocyte fertilization in protozoa, invertebrates, teleost fishes, amphibians, birds and mammals. These sections are followed by a summary/concluding chapter that provides a comparative overview of the process of fertilization in these groups of eukaryotes.

Handbook of Scaling Methods in Aquatic Ecology - Laurent Seuront 2003-09-25

The evolution of observational instruments, simulation techniques, and computing power has given aquatic scientists a new understanding of biological and physical processes that span temporal and spatial scales. This has created a need for a single volume that addresses concepts of scale in a manner that builds bridges between experimentalists and

Books in Print Supplement - 2002

Reproductive Biology of Invertebrates: pt. A-C. Progress in male gamete ultrastructure and phylogeny - Rita G. Adiyodi 1983

Diseases of Coral - Cheryl M. Woodley 2016-01-26

Coral disease is quickly becoming a crisis to the health and management of the world's coral reefs. There is a great interest from many in preserving coral reefs. Unfortunately, the field of epizootiology is disorganized and lacks a standard vocabulary, methods, and diagnostic techniques, and tropical marine scientists are poorly trained in wildlife pathology, veterinary medicine, and epidemiology. *Diseases of Coral* will help to rectify this situation.

Freshwater Crayfish - Tadashi Kawai 2015-08-05

For their great commercial importance as a human food delicacy, crayfish are now becoming of wider interest to molecular biologists, and also to conservationists due to the fact that in some countries many of

the native crayfish species are under threat from human activity, disease, and competition from other introduced crayfish species. Helmed by three editors in Japan, Europe, and the US, this book invites contributions from experts around the globe, covering the conservation status and biology of all endangered species, taxonomy, and distribution of crayfishes worldwide.

Advances in Marine Biology - Michael Lesser 2013-01-17

Advances in Marine Biology has been providing in-depth and up-to-date reviews on all aspects of marine biology since 1963 -- over 40 years of outstanding coverage! The series is well known for both its excellence of reviews and editing. Now edited by Michael Lesser (University of New Hampshire, USA), with an internationally renowned Editorial Board, the serial publishes in-depth and up-to-date content on a wide range of topics that will appeal to postgraduates and researchers in marine biology, fisheries science, ecology, zoology, and biological oceanography. *Advances in Marine Biology* has been providing in-depth and up-to-date reviews on all aspects of marine biology since 1963

Stem Cells in Marine Organisms - Baruch Rinkevich 2009-10-03

Do real stem cells and stem cell lineages exist in lower organisms? Can stem cells from one organism parasitize the soma and/or the germ line of conspecifics? Can differentiated cells in marine organisms be re-programmed to regenerate tissues, organs and appendages through novel de-differentiation, transdifferentiation, or re-differentiation processes, leading to virtually all three germ layers, including the germline? The positive answers to above questions open a new avenue in stem cell research: the biology of stem cells in marine organisms. It is therefore unfortunate that while the literature on stem cell from terrestrial organisms is rich and expanding at an exponential rate, investigations on marine organisms' stem cells are very limited and scarce. By presenting theoretical chapters, overview essays and specific research results, this book summarises the knowledge and the hypotheses on stem cells in marine organisms through major phyla and specific model organisms. The study on stem cells from marine invertebrates may shed lights on mechanisms promoting immunity, developmental biology, regeneration and budding processes in marine invertebrates, body maintenance, aging and senescence. It aims in encouraging a larger scientific community to follow and study the novel phenomena of stem cells behaviours as depicted from the few currently studied marine invertebrates.

The Evolution of Senescence in the Tree of Life - Richard P. Shefferson 2017-02-23

Top researchers in the field introduce interdisciplinary perspectives on senescence, presenting new insights and cutting-edge research.

Reproductive Strategies and Developmental Patterns in Annelids - Adriaan W.C. Dorresteijn 2013-04-18

The fascination of the Annelida to scientists lies in the beauty of their structures and the functionality of their body plan, the tremendous adaptive radiation which has made it possible for these animals to colonize almost all marine, limnic and terrestrial biotopes. In doing so they have evolved a great variety of life forms, and their reproduction and development are correspondingly diverse, with many modes and patterns unique in the animal kingdom. In this special volume recent progress in this broad research area is presented by 26 specialists, in general through surveys or treatments of selected examples. Some of them review important annelid taxa such as the Nereididae, Syllidae, Spionidae, Cirratulidae, Clitellata, and Pogonophora; others analyse reproductive and developmental structures and phenomena in annelids, e.g. segmental organs, sex pheromones, oogenesis, mating systems, sperm types, life cycles, larval settlement, cleavage and symmetry of embryos, or discuss controversial approaches to annelid systematics. The book will be of interest to all zoologists who work with annelids as well as to embryologists and other researchers in reproductive biology.

Guide to Reference and Information Sources in the Zoological Sciences - Diane Schmidt 2003-11-30

Animals have been studied for centuries. But what are the most important and relevant reference and information sources in the zoological sciences? This work is a comprehensive, thoroughly annotated

directory filled with hundreds of esteemed resources published in the field of zoology, including indexes, abstracts, bibliographies, journals, biographies and histories, dictionaries and encyclopedias, textbooks, checklists and classification schemes, handbooks and field guides, associations, and Web sites. A complete revision of the award-winning Guide to the Zoological Literature: The Animal Kingdom (1994), this new title includes extensive, up-to-date coverage of invertebrates, arthropods, vertebrates, fishes, amphibians and reptiles, birds, and mammals. In addition, the work features a detailed introduction by the author, as well as thorough subject, title, and author indexes. Students and researchers can now quickly and easily pinpoint works in their field of study. The book is of equal importance to LIS students specializing in science or biology librarianship, as it provides a comprehensive, straight-forward overview of zoological information sources. An essential addition to the core reference collection of public and academic libraries!

Ecology and Classification of North American Freshwater

Invertebrates - James H. Thorp 2001-05-11

The First Edition of Ecology and Classification of North American Freshwater Invertebrates has been immensely popular with students and researchers interested in freshwater biology and ecology, limnology, environmental science, invertebrate zoology, and related fields. The First Edition has been widely used as a textbook and this Second Edition should continue to serve students in advanced classes. The Second Edition features expanded and updated chapters, especially with respect to the cited references and the classification of North American freshwater invertebrates. New chapters or substantially revised chapters include those on freshwater ecosystems, snails, aquatic spiders, aquatic insects, and crustaceans. * Most up-to-date and informative text of its kind * Written by experts in the ecology of various invertebrate groups, coverage emphasizes ecological information within a current taxonomic framework * Each chapter contains both morphological and taxonomic information, including keys to North American taxa (usually to the generic level) as well as bibliographic information and a list of further readings * The text is geared toward researchers and advanced undergraduate and graduate students

Reproductive Strategies in Insects - Omkar 2022-02-15

Reproduction is one of the most inherent tasks that all living organisms are actively involved in. It forms the backbone of their existence with all evolutionary energies directed over billion years of creation into maximizing reproductive effort. For so simple and directed a need such as maximizing reproduction, it is interesting to see how much diversity and complexity exists in this task. Each organism despite having the same end goal employs different strategies. The complexities, intricacies and strategies of successful reproduction while being extremely fascinating are equally befuddling. *Reproductive Strategies in Insects* provides an expansive critical look at the reproductive strategies of the most diverse group of animals, the insects. Insects which inhabit myriad niches in all ecosystems except the oceans, show the most diverse reproductive strategies ranging from simplest to most complex. Reproductive strategies, viz., search for mates, number of mates, display of mate quality, assessment of mate quality, acceptance of mate, rejection of mates, forced copulations, the fight for paternity pre, during

and post copula, the modulation of paternity, ovipositional strategies and parental care are described in detail in this book. Also, each strategy is analyzed in relation to its morphological, physiological, ethological, ecological and evolutionary aspects. Features: Covers a wide variety of reproductive strategies, A detailed step by step description of reproductive strategies. Discusses morphological, physiological, ethological, ecological and evolutionary aspects. Modulation of these strategies and responsible modulatory factors are also discussed. Well-illustrated. Recent research results and probable future research directions. This is a niche reference book for ethologists, biologists studying behavioural evolution and entomologists. It may also be used as a textbook for a graduate level course in behaviour.

The Evolution of Organ Systems - Andreas Schmidt-Rhaesa
2007-08-30

Although there are several books on the phylogenetic relationships of animals, this is the first to focus on the consequences of such relationships for the evolution of organs themselves. It provides a summary of evolutionary hypotheses for each of the major organ systems, describing alternative theories in those cases of continuing controversy.

Reproductive Biology and Phylogeny of Annelida - Barrie G M Jamieson
2006-01-03

Annelida is a diverse group of animals, commonly referred to as segmented worms and currently comprising around 14000 described species. Found in most marine and freshwater areas, annelids have also successfully occupied many subterranean habitats. This volume documents annelid reproduction in the context of their phylogenetic relationships. It pre

Encyclopedia of Reproduction: Pro-Z, glossary, index - 1998

"The present work should serve as a convenient and comprehensive source of information encompassing all aspects of the subject of reproduction as it relates to the entire animal kingdom." -- Preface, p. xxxiii.

Scientific Publication - Freshwater Biological Association - Freshwater Biological Association 2004

Myxozoan Evolution, Ecology and Development - Beth Okamura
2015-04-01

This book provides an up-to-date review of the biology of myxozoans, which represent a divergent clade of endoparasitic cnidarians. Myxozoans are of fundamental interest in understanding how early diverging metazoans have adopted parasitic lifestyles, and are also of considerable economic and ecological concern as endoparasites of fish. Synthesizing recent research, the chapters explore issues such as myxozoan origins; evolutionary trends and diversification; development and life cycles; interactions with hosts; immunology; disease ecology; the impacts of climate change on disease; risk assessment; emerging diseases; and disease mitigation. This comprehensive work will appeal to a wide readership, from invertebrate zoologists, evolutionary biologists and developmental biologists to ecologists and parasitologists. It will also be of great practical interest to fisheries and conservation biologists. The identification of key areas for future research will appeal to scientists at all levels.

Reproductive Biology Of Invertebrates

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