Physiology Of Echinoderms

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physiology of echinoderms is an 11 chapter book that begins by elucidating the feeding digestion and excretion of specific echinoderms the critical role of amoebocytes in the excretion process involved in these organisms is also explained this book also describes several aspects of importance to these organisms including salinity tolerance osmoregulation ionic regulation chemical composition neural control of locomotion biochemical affinities toxins and immunology the organisms physiology in sensory water vascular system respiratory system spawning neurosecretion nerves and muscles are also explained

echinoderms are now considered as a biological and geological model that underlies researches of primary importance the extent of the contributions made by the international echinoderm conferences to various fields of research is attested by the scope covered by presentation at the international conferences these proceedings contain the complete papers or abstracts of all the presentations and posters presented at the eighth international echinoderm conference held in dijon france in september 1994 coverage includes general extinct classes crinoids asteroids ophiuroids holothuroids and echinoids

table of contents introduction to echinoderms what are echinoderms a glimpse into their evolution why study echinoderms the anatomy of echinoderms symmetry and the five part body plan the water vascular system unique structures tube feet and ossicles the diversity of echinoderms starfish sea stars sea urchins and sand dollars sea cucumbers brittle stars and basket stars crinoids feather stars and sea lilies echinoderm habitats and ecology coastal and deep sea environments echinoderm ecological roles interactions with other marine species behavior and communication feeding strategies locomotion and sensing the environment regeneration and reproduction defensive mechanisms echinoderms and human interaction economic and ecological importance the role of echinoderms in marine conservation echinoderms in art culture and history conservation challenges threats to echinoderms impact of climate change conservation efforts and marine protected areas the future of echinoderms ongoing scientific discoveries the role of echinoderms in marine biotechnology future research directions conclusion the enduring mystery of echinoderms why they matter to marine ecosystems and humans

the proceedings of the seventh international echinoderm conference held at atami japan september 1990 in addition to sections covering ecology evolution reproduction morphology molecular biology developmental biology physiology behavior and paleontology there are four plenary lectures a

the present title biology of echinodermata has been carefully compilated on the basis of all recent researches and investigation made on echinoderms it is intended for undergraduate and postgraduate students of all universities the text material has been written in a very easy clear lucid and straight forward manner to make a clear and vivid understanding all important types have been dealt with complete authentic and up to date account including morphology anatomy physiology and development of selected types efforts have been made to condense the matter as far as practicable it is hoped that the biology of echinodermata will not only meet the requirement of indian students but will also be useful as a guideline to the teachers and researchers contents introduction asterias echinoidea holothuroidea ophiuroidea crinoidea influence of environment development of larva water vascular system in echinodermata

this work consists of seven plenary lectures read at an international conference in tampa usa

introduces the physical characteristics habitat and types of echinoderms including starfish sea urchins and sea cucumbers

members of the phylum echinodermata are among the most familiar marine invertebrates forms such as the sea star have become virtually a symbol of sea life used in ancient oriental medicine as a source of bioactive compounds sea cucumbers sea stars and sea urchins are now used for the extraction and purification of cytotoxic haemolytic antiviral antifungal antifouling antimicrobial and even anti tumoural activities in addition of the five extant classes sea urchins and sea cucumbers are important economic resources for current fishery and aquaculture molecular and cell biological techniques described in this book are on the one hand indicative of the improvements made over the years and on the other stress the need of their further exploitation for the sustainable production of bioactive compounds and their

application in biomedicine

this book is an outcome of the second european conference on echinoderm brussels held in belgium in 1989 it covers the following areas of research in echinoderm paleontology reproduction development and larval biology evolution systematics and biogeography morphology and physiology

this book is a compilation of proceedings that contain abstracts of all papers posters presented at the international echinoderm conference held in 1984 and complete papers from those submitted for publication and accepted on the recommendations of referees

this book on phylogeny and immunity reconstructs the history and evolutionary pathways of immunity among the various forms of life the authors argue that the immunity could have evolved different adequately successful patterns in the animal sub regnum which are strictly determined by the morpho physiological possibilities of the animals they state that the vertebrate type of immunity evolved only in the chordate branch the publication devotes special attention to the arthropods and molluscs as they have attracted more investigative efforts than any other invertebrate taxa the authors selected agnatha chondrichthyes and osteichthyes from the vertebrate taxa in order to show where and how the morphofunctional basis of the truly adapative immunity of the endothermic tetrapods gradually evolved each chapter gives the description of the origin and interrelationships of the representatives of the taxon in question also given are the main biological morphological non morphological and immune attributes emphasized throughout the book is the central idea that immunological reactions are a part of the overall biological phenomena and should be studied only from this aspect the authors express that the fields of comparative and evolutionary immunology will provide inspiration for further investigations in biomedicine in the near future

the echinodermata is a phylum of marine invertebrates with a fossil record reaching back to the precambrian major elements of the benthic macrofauna they play a significant role in the dynamics of the ecosystems and are choice biological models in the life sciences from ecology to genomics this title offers 50 papers presented at the sixth european conferences on echinoderms ece covering population biology biodiversity anatomy and functional morphology physiology and behavior biological cycles and resource potential this book reflects the great diversity of its contributors offering an opportunity to cover a broad range of important questions in a single authoritative reference

this volume demonstrates the wide range of echinoderm research from molecular genetics to palaeontology in progress today it features 45 papers on biochemical and molecular studies environmental monitoring functional biology palaeontology development growth and regeneration and reproduction

each book has two main goals1 determine baseline concentrations of metals and metalloids in tissues of representative field populations of estuarine coastal and open ocean organisms book 1 algae and macrophytes protists sponges coelenterates molluscs crustaceans insects chaetognaths annelids

echinoderms and tunicates book 2 elasmobranchs fishes reptiles birds mammals and their significance to organism health and to the health of their consumers 2 synthesize existing information on biological chemical and physical factors known to modify uptake retention and translocation of each element under field and laboratory conditions recognition of the importance of these modifiers and their accompanying interactions is essential to the understanding of metals kinetics in marine systems and to the interpretation of baseline residue data synthesizes existing information on biological chemical and physical factors known to modify uptake retention and translocation of each element aids understanding of metals kinetics in marine systems allows the interpretation of baseline residue data

this book compiles for the first time the development of echinoderm research in latin america the book contains 17 chapters one introductory 15 country chapters and a final biogeographic analysis it compiles all the investigations published in international and local journals reports theses and other gray literature each chapter is composed of 7 sections introduction describes the marine environments and main oceanographic characteristics followed by a history of research account divided by specific subjects the next section addresses patterns of distribution and diversity a specific section would explain fishery or aquaculture activities the next sections deal with environmental and anthropogenic threats that are affecting echinoderm and any conservation or management action finally a section with conclusions needs and new lines of research the book will include two appendixes with species lists of all echinoderms with bathimetric data habitat and distribution

reflecting increased interest in the field and its relevance in global environmental issues oceanography and marine biology an annual review volume 47 provides authoritative reviews that summarize results of recent research in basic areas of marine research exploring topics of special and topical importance while adding to new areas as they arise this volume part of a series that regards the all marine sciences as a complete unit features contributions from experts involved in biological chemical geological and physical aspects of marine science

la 4ème de couverture porte echinoderms are a vast group of spiny skinned animals including starfish brittle stars sea urchins sand dollars feather stars sea lilies and sea cucumbers these relatives of chordates and hemichordates have inhabited the world s oceans for more than 500 million years modern members of the echinodermata are with over 7 000 species an integral part of marine communities from the intertidal to the deep sea echinoderms play a major ecological role in marine habitats and are of economic importance in fisheries aqaculture and biomedicine the present volume contains the abstracts of lectures and posters presented during the 7th european conference on echinoderms ece as well as excursion guides this year s conference was held at the northern campus of the georg august university in göttingen germany from october 2 9 2010 more than 100 biologists palaeontologists and other scientists from 25 countries participated

patterns of evolution as illustrated by the fossil record

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