



# Elasmobranch Fishes

**Natalie D. Mylniczenko, Alexa Delaune  
, Alisa Newton**

## **Elasmobranch Fishes:**

*Sharks, Skates, and Rays* William C. Hamlett, 1999-05-21 Successor to the classic work in shark studies *The Elasmobranch Fishes* by John Franklin Daniel first published 1922 revised 1928 and 1934 *Sharks Skates and Rays* provides a comprehensive and up to date overview of elasmobranch morphology Coverage has been expanded from anatomy to include modern information on physiology and biochemistry The new volume also provides equal treatment for skates and rays The authors present general introductory material for the relative novice but also review the latest technical citations making the book a valuable primary reference resource More than 200 illustrations supplement the text *The Elasmobranch Fishes* John Franklin Daniel, 1922 *Physiology of Elasmobranch Fishes: Structure and Interaction with Environment* Robert E. Shadwick, Anthony Peter Farrell, Colin Brauner, 2015-11-16 *Fish Physiology Physiology of Elasmobranch Fishes Volume 34A* is a useful reference for fish physiologists biologists ecologists and conservation biologists Following an increase in research on elasmobranchs due to the plight of sharks in today's oceans this volume compares elasmobranchs to other groups of fish highlights areas of interest for future research and offers perspective on future problems Covering measurements and lab and field based studies of large pelagic sharks this volume is a natural addition to the renowned *Fish Physiology* series Provides needed comprehensive content on the physiology of elasmobranchs Offers a systems approach between structure and interaction with the environment and internal physiology Contains contributions by leading experts in their respective fields under the guidance of internationally recognized and highly respected editors Highlights areas of interest for future research including perspective on future problems *Physiology of Elasmobranch Fishes: Internal Processes* Robert E. Shadwick, Anthony Farrell, Colin Brauner, 2015-11-16 *Fish Physiology Physiology of Elasmobranch Fishes Volume 34B* is a useful reference for fish physiologists biologists ecologists and conservation biologists Following an increase in research on elasmobranchs due to the plight of sharks in today's oceans this volume compares elasmobranchs to other groups of fish highlights areas of interest for future research and offers perspective on future problems Covering measurements and lab and field based studies of large pelagic sharks this volume is a natural addition to the renowned *Fish Physiology* series Provides needed comprehensive content on the physiology of elasmobranchs Offers a systems approach between structure and interaction with the environment and internal physiology Contains contributions by leading experts in their respective fields under the guidance of internationally recognized and highly respected editors Highlights areas of interest for future research including perspective on future problems **A Monograph on the Development of Elasmobranch Fishes** Francis Maitland Balfour, 1878 *A Monograph on the Development of Elasmobranch Fishes* Balfour, 1878 **The behavior and sensory biology of elasmobranch fishes: an anthology in memory of Donald Richard Nelson** Timothy C. Tricas, Samuel H. Gruber, 2013-06-29 The elasmobranch fishes include the living sharks skates and rays that are important members of nearly all marine ecosystems Their large size secretive behavior and wide ranging habits make them difficult to

observe in the field or to maintain in captivity Consequently little is known about their natural behavior and how it is mediated by their sensory systems This volume is dedicated to the scientific contributions and memory of Donald Nelson a pioneer in the study of shark behavior sensory biology and remote instrumentation The two opening papers review Don Nelson s unique scientific accomplishments and provide insight into his strong bias towards study of animals in the field These are followed by 14 scientific papers on elasmobranch behavior sensory biology and current monitoring technologies The papers on elasmobranch sensory biology and behavior address questions on hearing the lateral line electroreception the brain orientation behavior chemical irritants feeding and reproduction The latter section of the volume presents papers on conventional tagging techniques ultrasonic telemetry physiological telemetry remote monitoring techniques archival tagging and satellite tagging The intent of this volume is to familiarize both new and established scientists with the sensory biology and behavior of sharks and rays and to encourage further behavioral research on these animals in their natural environment

Physiology of Elasmobranch Fishes Trevor J. Shuttleworth, 2012-12-06 There can be little doubt that to use the parlance of the advertising world the elasmobranch fishes have a high profile image in today s world To most members of the general public they are seen as terrors of the deep perfect aquatic predators and the stars or more accurately the villains of major Hollywood movie films and innumerable television nature programmes Such an image belies the fact that the vast majority of elasmobranch species feed on invertebrates and that for man the threat from shark attack is infinitesimal compared with even being struck by lightning Similarly there can be few biologists who have not carried out the classic vertebrate dissection of the dogfish at some stage early in the formative years of their scientific education Yet elasmobranch species make up only a small proportion perhaps little more than 1 % of all vertebrates and there are probably nearly 50 times as many teleost species as there are elasmobranchs It is also curious that as subjects for modern research elasmobranchs seem to be chosen sometimes for their unique physiological characteristics and at other times because they represent excellent model systems for the study of some general process Equally it is for both these seemingly contradictory reasons that this book was proposed

The elasmobranch fishes D.J. Frank, 1928      **Management Techniques for Elasmobranch Fisheries** Food and Agriculture Organization of the United Nations, 2005-01-01 This publication describes the scientific principles and techniques used for resource management of elasmobranch fisheries with emphasis on the particular context of elasmobranchs The management characteristics of these fishes are described their common bycatch character and their biological constraints on productivity low growth rate late maturity and low fecundity Stock assessment of elasmobranchs is described in the context of management objectives in a wide management context Special attention is given to accurate species identification given the prevalent aggregating of landings data across species genera and often families in this group Techniques and experiences for tagging elasmobranchs for population estimation are described as well as methods of genetic techniques for stock identification

**The Elasmobranch Fishes** J. Frank Daniel, 1934      **Elasmobranch Biodiversity,**

**Conservation and Management** Sarah L. Fowler, Tim M. Reed, Frances Dipper, 2002 The Darwin Elasmobranch Biodiversity Conservation and Management project in Sabah held a three day international seminar that included a one day workshop in order to highlight freshwater and coastal elasmobranch conservation issues in the region and worldwide to disseminate the result of the project to other Malaysian states and countries and to raise awareness of the importance of considering aspects of elasmobranch biodiversity in the context of nature conservation commercial fisheries management and for subsistence fishing communities These proceedings contain numerous peer reviewed papers originally presented at the seminar which cover a wide range of topics with particular reference to species from freshwater and estuarine habitats The workshop served to develop recommendations concerning the future prospects of elasmobranch fisheries biodiversity conservation and management This paper records those conclusions which highlight the importance of elasmobranchs as top marine predators and keystone species noting that permanent damage to shark and ray populations are likely to have serious and unexpected negative consequences for commercial and subsistence yields of other important fish stocks *The Elasmobranch Fishes* John Franklin Daniel, 1934 Check List of the Freshwater Fishes of South and Central America Roberto E. Reis, 2003 *Journal of Morphology*, 1922 **Elasmobranch Fishes of South Carolina** Charles M. Bearden, 1965 **Advances in Fisheries Science** Andrew I. L. Payne, John Cotter, Ted Potter, 2009-01-22 This timely book brings readers up to date on the wide range of advances made in fisheries science since the publication in 1957 of *On the Dynamics of Exploited Fish Populations* Beverton and Holt regarded by many fisheries scientists as one of the most important books on fisheries yet published Traditional fishery subjects covered include historic declines and changes in fishing fleets fisheries management and stock assessments data poor situations simulation and modelling of fished stocks fisheries economics assessing reproductive potential and dispersal of larvae fisheries for sharks and rays and use of marine technology Additionally related subjects of increasing importance now that ecological approaches to management are coming to the fore are presented They include benthic ecology ecosystem changes linked to fishing life history theory the effects of chemicals on fish reproduction and use of sounds in the sea by marine life Several chapters offer stimulating philosophical discussion of the many controversial areas still existing This significant book edited by Andy Payne John Cotter and Ted Potter and containing contributions by world renowned fisheries scientists including many based at Cefas where Beverton and Holt's original work was carried out is an essential purchase for fisheries managers and scientists fish biologists marine scientists and ecologists Libraries in all universities and research establishments where fisheries and biological sciences are studied and taught are likely to need copies of this landmark publication *Advanced Veterinary Topics in Elasmobranchs* Natalie D. Mylniczenko, Alexa Delaune, Alisa Newton, 2025-05-22 Elasmobranchs are a unique group of fishes which are highly emphasized at aquariums they are a guest favourite and of high interest to the general public Veterinarians working with sharks rays and occasionally chimaeras find themselves challenged because of the wide diversity within the group and the

lack of widely published information available in veterinary medicine This special edition aims to do several things 1 significantly contribute data to a generally low publication taxon 2 offer unique case series of disease to help clinicians with diagnosis of disease 3 increase the quality of diagnostics available to veterinarians to improve their case management 4 provide a central location for quality research on elasmobranch veterinary medicine Elasmobranch veterinary care is a poorly published topic yet there are many clinicians doing quality work in shark and ray medicine This special topic provides an impetus for those clinicians to contribute their research with other colleagues in a single resource that veterinarians can easily access Reaching out to those veterinarians and offering them an opportunity to publish in a quality open access journal will be very appealing An initial survey with an aquatic veterinary listserv indicated that at least 10 institutions were interested in collaborating which suggests that the content is there and possibly others have similar research that can be tapped into for this special edition Frontiers in Veterinary Science is offering a special edition for Advanced Veterinary Topics in Elasmobranchs This opportunity will collect multiple topics in shark and ray medicine which will include important baseline data in clinical pathology evaluation of diagnostics that can be accurately used in patient care descriptions of diseases that have not been previously published and sharing techniques with colleagues to elevate the capacity of veterinarians to make diagnoses Manuscripts of interest include Retrospective surveys of disease Baseline data on species previously unpublished bloodwork imaging other Techniques that can advance diagnosis of disease Test and assay validation in elasmobranchs Treatments and strategies for conditions encountered in sharks and rays Reviews of topics that can be helpful for a veterinarian extant topics are largely research or field based

**Effects of EMFs from Undersea Power Cables on Elasmobranchs and Other Marine Species: Final Report** T. Tricas, 2012-12      **Upon the Structure and Development of the Enamel of Elasmobranch Fishes** Sir Charles Sissmore Tomes, 1898

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### **Elasmobranch Fishes Introduction**

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