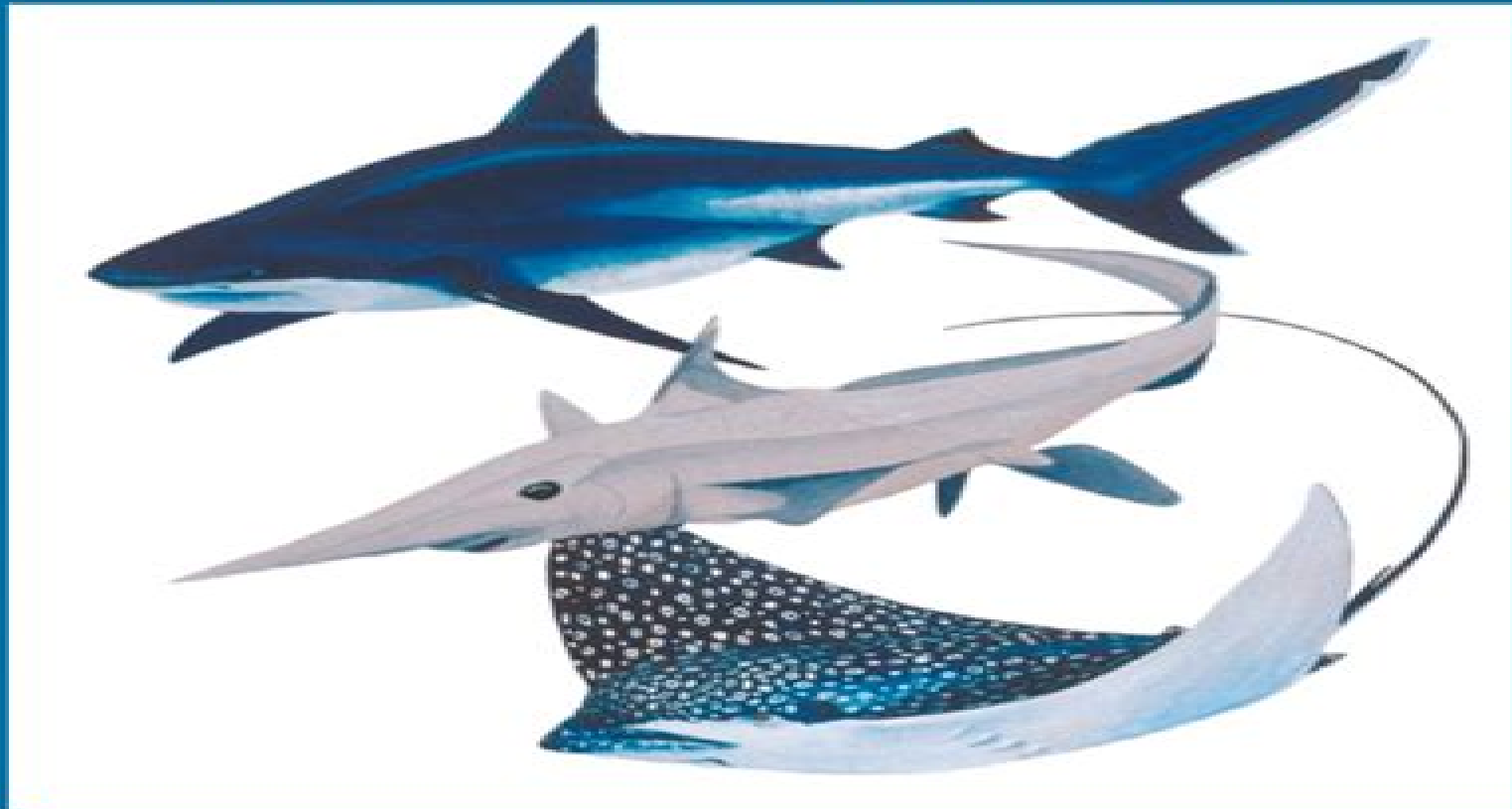


# **Elasmobranch Husbandry Manual:**

**Captive Care of Sharks, Rays, and their Relatives**



**Mark Smith, Doug Warmolts, Dennis Thoney,  
and Robert Hueter (Editors)**

# Elasmobranch Husbandry Manual

**British Small Animal Veterinary  
Association**



## **Elasmobranch Husbandry Manual:**

**The Elasmobranch Husbandry Manual** Mark F. L. Smith, 2004      The Elasmobranch Husbandry Manual 2. : Recent Advances in the Care of Sharks, Rays and Their Relatives Mark F. L. Smith, 2017      **The Elasmobranch Husbandry Manual II**, 2017      **Clinical Guide to Fish Medicine** Catherine Hadfield, Leigh Clayton, 2021-06-10 Clinical Guide to Fish Medicine Designed as a practical resource Clinical Guide to Fish Medicine provides an evidence based approach to the veterinary care of fish This guide written and edited by experts in the field contains essential information on husbandry diagnostics and case management of bony and cartilaginous fish This important resource Provides clinically relevant information on topics such as anatomy water quality life support systems nutrition behavioral training clinical examination clinical pathology diagnostic imaging necropsy techniques anesthesia and analgesia surgery medical treatment and transport Describes common presenting problems of fish including possible differentials and practical approaches Reviews key information on non infectious and infectious diseases of fish in a concise format that is easily accessible in a clinical setting Written for veterinarians biologists technicians specialists and students Clinical Guide to Fish Medicine offers a comprehensive review of veterinary medicine of fish      *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

**Exotic Animal Hematology and Cytology**  
Terry W. Campbell, Krystan R. Grant, 2022-01-21 The newly revised Fifth Edition of Exotic Animal Hematology and Cytology delivers a fully updated new edition of the most complete reference to hematology and cytology in exotic animals The book features high quality images and step by step descriptions of practical techniques Organized by animal class to make it easier to quickly find critical information the authors have included 45 new case studies to highlight the application of the content in a real world setting All major exotic animal groups are covered including mammals birds reptiles amphibians and fish Clinicians seeking a decision making aid for patient workup treatment and prognosis will find what they need in Exotic Animal Hematology and Cytology The book also includes Thorough cellular descriptions unique to mammalian avian herptile and fish species with extensive discussions of blood and bone marrow sample collection and hematologic techniques for each group Comprehensive evaluation of the peripheral blood specific to mammals birds herptiles and fish as well as the evaluation of bone marrow Practical discussions of hematology case studies with applications to common real world clinical problems Color atlas of hemic cells of select species for quick and easy reference Extensive examinations of cytodiagnosis and exploration of unique features within mammals birds herptiles and fish as well as cytology case studies and wet mount cases in fish Access to video clips and additional case reports on a companion website Exotic Animal Hematology and Cytology is an essential reference for veterinary clinical pathologists anatomic pathologists clinicians and technicians as well as for veterinary students taking courses involving exotic hematology and cytology

**Marine Ornamental Species** James C. Cato, Christopher L. Brown, 2008-02-28 Marine Ornamental Species Collection Culture and Conservation is a comprehensive resource containing information on the growing and economically important marine ornamental industry Experts address current issues from a global perspective covering the full range of topics from world economics and product demand to aquatic animal health to ethnic and social cultural concerns This up to date overview will contribute to the creation of an economically and environmentally viable future for this dynamic industry worldwide and for its diverse clientele by outlining improvements in the methods for the collection and distribution of wild marine ornamental species providing information to accelerate an increase in the variety quantity and availability of cultured marine ornamental species and encouraging outreach activities in the conservation and husbandry of marine ornamental species The value of and the interest in marine ornamentals from many governments as well as conservation organizations underline the critical need for this book It is also essential reading for scientists involved in marine biology and conservation issues aquarists at public and private aquaria tropical fish farmers advanced hobbyists fishery biologists importers and exporters of marine ornamentals commercial collectors veterinarians who specialize in fish disease and businesses that manufacture or sell aquarium media equipment

and feed      Contributions of Zoos and Aquariums to the Advancement of Marine Science Steven T. Kessel, Charles Knapp, Tracy A. Romano, Alistair Dove, Heather Jane Koldewey, 2025-02-13 As zoological organizations evolve in the twenty first century to address the biodiversity extinction crisis and proactively demonstrate relevance in a changing public opinion landscape their conservation science portfolios continue to expand Public zoos and aquariums address these issues directly by conducting both ex and in situ research designed to advance our understanding of species while also detecting diagnosing and halting population declines in the wild In particular the distinct nature of zoological organizations uniquely positions them to make significant contributions to marine science The ability to care for and access a diverse suite of marine species provides the opportunity to understand their behavior biology physiology which can inform ex situ investigations Moreover the broad skillsets of staff facilitate extensive collaborative research opportunities These ongoing contributions to marine science have remained relatively underappreciated by others outside the community Here we intend to raise awareness about these contributions and initiate further collaborative research opportunities Building on an increasing body of literature our goal is to curate a diverse portfolio of research that represents the contributions of zoos and aquariums to the field of marine science and to highlight the novel qualities of these conservation based organizations These can broadly be divided into four main categories i Infrastructure extensive capacity to care for a wide variety of animals extensive veterinarian hospital spaces and equipment advanced water quality and microbiology labs research vessels and the generation of funds through ticket sales and contributions ii Animal care expertise in maintaining animals under professional human care including breeding diverse veterinary expertise development of species specific research techniques relevant to the study of wild populations iii Dedicated research programs personnel typically focused on wild populations ecosystems and iv Education and social science policy and advocacy education and outreach large audiences to educate engage on conservation issues and inspiring the next generation of conservation champions biologists This will serve to further bring zoos and aquariums to the forefront as potential collaborators for other marine scientists conducting both in situ and ex situ research particularly those studies that would benefit from the unique opportunities and rare and endangered species zoos and aquariums provide      *Guidelines for Euthanasia of Nondomestic Animals* American Association of Zoo

Veterinarians, 2006 This document represents an attempt by the professional zoological and wildlife community to gather and publish the best known procedures for euthanatizing the animals they manage Although guidelines for euthanasia have been published previously the present effort provides the beginning of an ongoing quest for procedures that mitigate pain and distress and provide for a humane termination of life for species other than those commonly defined as domestic animals

Introduction      **Bulletin de L'Institut Océanographique** Institut océanographique, Musée océanographique de Monaco, 2004      **19th Meeting of the European Union of Aquarium Curators** Flegra Bentivegna, Nadia Ounais, Paul Van den Sande, 2004      *Actes* Nadia Ounais, 2001      *Shark News*,      **Bulletin of the Mount Desert Island Biological**

**Laboratory** Mount Desert Island Biological Laboratory,2006      **Marine & Freshwater Research** ,2014      **Journal of the North Carolina Academy of Science** ,2009      BSAVA Manual of Ornamental Fish British Small Animal Veterinary Association,2001 This important publication has been completely revised and expanded by 29 authors from the UK and USA for an international readership It is extensively illustrated and intentionally practical with a large new section on systematic disorders that will aid disease diagnosis This book covers all aspects of ornamental fish health including environmental needs the aquatic trade fishkeeping disease investigation systematic disorders infectious and non infectious diseases medical and surgical therapies relevant legislation and health safety Although written primarily for veterinarians this book is an essential reference for anyone involved in professional fish health care and for those working in the ornamental fish industry and public aquaria      〇〇〇〇〇〇〇 〇〇〇〇,2018-06      **The Diversity of Fishes** Gene S. Helfman,2009-05-04 Fishes as the largest group of living vertebrates offer almost unlimited opportunities for the study of evolutionary adaptation to environmental and biotic selection pressures This core text also contains chapters on biodiversity and fish conservation      **Arquivos de ciências do mar** ,2008

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