



# Sensory Systems of Aquatic Mammals

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# Sensory Systems Of Aquatic Mammals

**Galina Solntseva**



## **Sensory Systems Of Aquatic Mammals:**

Marine Mammal Sensory Systems Ronald A. Kastelein, Alexander Ya. Supin, Jeanette A. Thomas, 2012-12-06 This book is a collection of original research papers given at a symposium entitled Sensory Systems and Behavior of Aquatic Mammals hosted by the USSR Academy of Sciences The meeting was held in Moscow from 16 to 25 October 1991 and involved nearly 100 scientists from around the world The major headings of the book correspond to the session topics at the symposium This meeting was not the first dedicated to problems of sensory systems in aquatic mammals Experts in this field met several times previously to discuss important problems of sensory functions in echolocating animals symposia on biosonar systems were held in Frascati Italy in 1966 then in Jersey France in 1978 and in Helsingor Denmark in 1986 Papers presented at these meetings were published in books that advanced significantly the understanding of sensory systems Busnel and Fish 1980 Nachtigall and Moore 1988 Initially echolocating bats were the main subjects of consideration However studies on echolocating aquatic mammals whales and dolphins increased from one meeting to the next Indeed aquatic mammals are of exceptional interest for studying the adaptation of sensory functions for echolocation in specific aquatic environments As a natural consequence of these developments the 1989 symposium in Rome was devoted specifically to the sensory systems of cetaceans Thomas and Kastelein 1990 This symposium was held within the Fifth International Theriological Congress and was attended by many scientists

Sensory Systems of Aquatic Mammals Ronald A. Kastelein, Jeanette A. Thomas, Paul E. Nachtigall, 1995

The Sensory Physiology of Aquatic Mammals Alexander Ya. Supin, Vladimir V. Popov, Alla M. Mass, 2012-12-06 This book is actually a product of efforts of many people not only of the authors Wide investigations of marine mammals began in Russia that time in the former Soviet Union in the 1960s when a few teams of enthusiasts founded in captivity experimental stations intended for keeping dolphins and seals and for performing experimental studies of these fascinating animals It was a time when attention of many people throughout the world was attracted to dolphins and other marine mammals due to appearance of oceanariums and dolphinariums which demonstrated unique capabilities of these animals So scientists in many countries concentrated on studies of them There was much to learn about the morphology physiology and psychology of marine mammals and investigators spending their time and efforts on studies in this field were rewarded by a number of surprising findings The authors of this book represent one of such research teams focused on the neuro and sensory physiology of marine mammals A few decades of studies naturally resulted in the idea to summarize in a book both the results of these studies and a large body of data in adjacent fields Our goal was to synthesize the many research findings and the present knowledge on sensory capabilities and mechanisms of sensory systems of aquatic mammals We realize however that the appearance of this book was made possible due to the help and assistance of many colleagues

**Biodiversity of Sensory Systems in Aquatic Vertebrates** Wayne Iwan Lee Davies, Shaun Collin, 2020-08-27

Sensory Biology of Aquatic Animals Jelle 1987, Richard R. Fay, William N. Tavolga, 2012-12-06 This volume constitutes a

series of invited chapters based on presentations given at an International Conference on the Sensory Biology of Aquatic Animals held June 24-28, 1985 at the Mote Marine Laboratory in Sarasota, Florida. The immediate purpose of the conference was to spark an exchange of ideas, concepts, and techniques among investigators concerned with the different sensory modalities employed by a wide variety of animal species in extracting information from the aquatic environment. By necessity, most investigators of sensory biology are specialists in one sensory system; different stimulus modalities require different methods of stimulus control and generally different animal models. Yet it is clear that all sensory systems have principles in common, such as stimulus filtering by peripheral structures, tuning of receptor cells, signal-to-noise ratios, adaptation and disadaptation, and effective dynamic range. Other features, such as hormonal and efferent neural control, circadian reorganization, and receptor recycling, are known in some and not in other senses. The conference afforded an increased awareness of new discoveries in other sensory systems that has effectively inspired a fresh look by the various participants at their own area of specialization to see whether or not similar principles apply. This inspiration was found not only in theoretical issues but equally in techniques and methods of approach. The myopia of sensory specialization was broken in one unexpected way by showing limitations of individual sense organs and their integration within each organism. For instance, studying vision, one generally chooses a visual animal as a model.

*Radioactive Isotopes in Clinical Medicine and Research* Xxiii Helmar Bergmann, Horst Köhn, Helmut Sinzinger, **Introduction to the Senses** Terry R. J. Bossomaier, 2012-06-14

An understanding of the senses—vision, hearing, touch, chemical, and other non-human senses—is important not only for many fields of biology but also in applied areas such as human-computer interaction, robotics, and computer games. Using information theory as a unifying framework, this is a wide-ranging survey of sensory systems covering all known senses. The book draws on three unifying principles to examine senses: the Nyquist sampling theorem, Shannon's information theory, and the creation of different streams of information to subserve different tasks. This framework is used to discuss the fascinating role of sensory adaptation in the context of environment and lifestyle. Providing a fundamental grounding in sensory perception, the book then demonstrates how this knowledge can be applied to the design of human-computer interfaces and virtual environments. It is an ideal resource for both graduate and undergraduate students of biology, engineering, robotics, and computer science.

**Handbook of Mammalian Vocalization** Stefan M. Brudzynski, 2009-12-08

*Handbook of Mammalian Vocalization* is designed as a broad and comprehensive but well-balanced book written from the neuroscience point of view in the broad sense of this term. This well-illustrated Handbook pays particular attention to systematically organized details but also to the explanatory style of the text and internal cohesiveness of the content so the successive chapters gradually develop a consistent story without losing the inherent complexity. Studies from many species are included; however, rodents dominate as most of the brain investigations were done on these species. The leading idea of the Handbook is that vocalizations evolved as highly adaptive, specific signals which are selectively picked up by the brain. The brain serves

as a receptor and behavioural amplifier Brain systems will be described which allow vocal signals rapidly changing the entire state of the organism and trigger vital biological responses usually also with accompanying emission of vocalizations Integrative brain functions leading to vocal outcome will be described along with the vocalization generators and motor output to larynx and other supportive motor subsystems The last sections of the Handbook explains bioacoustic structure of vocalizations present understanding of information coding and origins of the complex semiotic semantic content of vocalizations in social mammals The Handbook is a major source of information for professionals from many fields with a neuroscience approach as a common denominator The handbook provides consistent and unified understanding of all major aspects of vocalization in a monographic manner and at the same time gives an encyclopaedic overview of major topics associated with vocalization from molecular cellular level to behavior and cognitive processing It is written in a strictly scientific way but clear enough to serve not only for specialized researchers in different fields of neuroscience but also for academic teachers of neuroscience including behavioural neuroscience affective neuroscience clinical neuroscience neuroethology biopsychology neurolinguistics speech pathology and other related fields and also for research fellows graduate and other advanced students who widely need such a source publication The first comprehensive handbook on what we know about vocalization in Mammals Carefully edited the handbook provides an integrated overview of the area International list of highly regarded contributors including Jaak Panksepp Washington State University David McFarland Oxford John D Newman NIH Unit on Developmental Neuroethology Gerd Poeggel Leipzig Shiba Keisuke Chiba City Japan and others tightly edited by a single well regarded editor who has edited a special issue in Behavioral Brain Research on the topic before

Sensory Evolution on the Threshold J. G. M. Hans Thewissen, Sirpa Nummela, 2008-02-04 From crocodiles and penguins to seals and whales this comprehensive and authoritative synthesis explores the function and evolution of sensory systems in animals whose ancestors lived on land Together the contributors explore the dramatic transformation of smell taste sight hearing balance mechanoreception magnetoreception and electroreception that occurred as lineages of amphibians reptiles birds and mammals returned to aquatic environments Each chapter integrates data from fields including sensory physiology anatomy paleontology and neurobiology A one stop source for information on the sense organs of secondarily aquatic tetrapods Sensory Evolution on the Threshold sheds new light on both the evolution of aquatic vertebrates and the sensory biology of their astonishing transition

**Biology of Marine Mammals** John E. Reynolds, 2013-08-06 Taking an integrated approach to the biology of marine carnivores cetaceans and sirenians twenty two prominent researchers compare marine mammals with one another and with terrestrial mammals providing a framework for fundamental biological and ecological concepts They describe functional morphology sensory systems energetics reproduction communication and cognition behavior distribution population biology and feeding ecology They also detail the physiological adaptations for such activities and processes as diving thermo regulation osmoregulation and orientation that

enable marine mammals to exploit their aquatic environment      *Hearing by Whales and Dolphins* Whitlow W.L. Au, Richard R. Fay, 2012-12-06 Cetaceans inhabit oceans seas and even some rivers throughout the world Hearing and sound production are thought to serve crucial functions in the behavior natural history or life cycle of all of these animals Although difficulties in studying large aquatic animals have limited experimental auditory research on many species knowledge about the acoustic behavior of these animals has been increasing dramatically In this volume experts in different areas of the field provide an overview of the bioacoustics of whales and dolphins as well as a thorough introduction to the subject for investigators of hearing in other animals Topics covered include the structure and function of cetacean auditory systems the unique sound production system of odontocetes acoustic communication psychoacoustics echolocation and models of sound propagation

**The Bowhead Whale** J.C. George, J.G.M. Thewissen, 2020-09-11 The Bowhead Whale *Balaena mysticetus* Biology and Human Interactions covers bowhead biology from their anatomy and behavior to conservation distribution ecology and evolution The book also discusses the biological and physical aspects of the Arctic ecosystem in which these whales live with careful attention paid to the dramatic changes taking place A special section of the book describes the interactions of humans with bowheads in past and present focusing on their importance to Indigenous communities and the challenges regarding entanglement in fishing gear industrial noise and ship strikes This volume brings together the knowledge of bowheads in one place for easy reference for scientists that study the species marine mammal biologists but equally important for everyone who is interested in the Arctic Presents the only current book dedicated to this species Includes short high impact chapters that make it possible to review all bowhead biology in one compact volume Illustrated with never before published photos of bowheads in their natural environment Provides a platform for an in depth understanding of indigenous whaling      [Marine Mammals and Noise](#) W. John Richardson, Charles R. Greene Jr., Charles I. Malme, Denis H. Thomson, 2013-10-22 Many marine mammals communicate by emitting sounds that pass through water Such sounds can be received across great distances and can influence the behavior of these undersea creatures In the past few decades the oceans have become increasingly noisy as underwater sounds from propellers sonars and other human activities make it difficult for marine mammals to communicate This book discusses among many other topics just how well marine mammals hear how noisy the oceans have become and what effects these new sounds have on marine mammals The baseline of ambient noise the sounds produced by machines and mammals the sensitivity of marine mammal hearing and the reactions of marine mammals are also examined An essential addition to any marine biologist's library *Marine Mammals and Noise* will be especially appealing to marine mammalogists researchers policy makers and regulators and marine biologists and oceanographers using sound in their research      [Morphology of the Auditory and Vestibular Organs in Mammals, with Emphasis on Marine Species](#) Galina Solntseva, 2007-07-03 This monograph describes the directions of the structural evolution of the peripheral part of the auditory system in representatives of different ecological groups of mammals Special attention is paid to the least studied

orders of marine mammals pinnipeds cetaceans being of great interest both with regards to the echolocating abilities in dolphins and the influence of the aquatic environment on the development of morphological adaptations in the structure of the outer middle and inner ears Undertaken for the first time a comparative embryological study of the peripheral part of the auditory system in marine mammals allowed the author to reveal the developmental pattern of the auditory and equilibrium organs in animals with a different auditory specialization The influence of ecological factors on the adaptive trait development in the structural organization of the outer middle and inner ears in semi aquatic and aquatic species is discussed The book is illustrated with a large number of high quality micro photos

**The Senses: A Comprehensive Reference**, 2020-09-30 The Senses A Comprehensive Reference Second Edition Seven Volume Set is a comprehensive reference work covering the range of topics that constitute current knowledge of the neural mechanisms underlying the different senses This important work provides the most up to date cutting edge comprehensive reference combining volumes on all major sensory modalities in one set Offering 264 chapters from a distinguished team of international experts The Senses lays out current knowledge on the anatomy physiology and molecular biology of sensory organs in a collection of comprehensive chapters spanning 4 volumes Topics covered include the perception psychophysics and higher order processing of sensory information as well as disorders and new diagnostic and treatment methods Written for a wide audience this reference work provides students scholars medical doctors as well as anyone interested in neuroscience a comprehensive overview of the knowledge accumulated on the function of sense organs sensory systems and how the brain processes sensory input As with the first edition contributions from leading scholars from around the world will ensure The Senses offers a truly international portrait of sensory physiology The set is the definitive reference on sensory neuroscience and provides the ultimate entry point into the review and original literature in Sensory Neuroscience enabling students and scientists to delve into the subject and deepen their knowledge All inclusive coverage of topics updated edition offers readers the only current reference available covering neurobiology physiology anatomy and molecular biology of sense organs and the processing of sensory information in the brain Authoritative content world leading contributors provide readers with a reputable dynamic and authoritative account of the topics under discussion Comprehensive style content in depth complex coverage of topics offers students at upper undergraduate level and above full insight into topics under discussion

**Marine Mammal Observer and Passive Acoustic Monitoring Handbook** Victoria Todd,Ian Todd,Jane Gardiner,Erica Morrin,2015-03-02 Marine Mammal Observer and Passive Acoustic Monitoring Handbook is the ultimate instruction manual for mitigation measures to minimise man made acoustical and physical disturbances to marine mammals from industrial and defence activities Based on more than two decades of offshore experience and a decade of supplying MMO and PAM services commercial and scientific the Handbook is a long overdue reference guide that seeks to improve standards worldwide for marine operations such as seismic and drilling exploration wind farm and civil engineering piling dredging trenching rock

dumping hydrographical surveys and military defence exercises By popular request this manual will also form an accompaniment to MMO and PAM courses The Handbook consolidates all aspects of this discipline into one easily accessible resource to educate all stakeholders e g MMOs PAM operators suppliers recruitment agencies clients contractors regulators NGOs consultants scientists academia and media regardless of experience Topics include worldwide legislation compliance anthropogenic noise sources and potential effects training offshore life visual and acoustic monitoring theory and practice marine mammal distribution hearing and vocalisations and report writing Advice is provided on implementing sensible and practical mitigation techniques appropriate technologies data collection client and regulator liaison and project kick off meetings The Handbook is an indispensable How To guide to the growing and increasingly important occupation of marine mammal monitoring written with clarity and humor by scientists who have extensive experience in this field Dr Phillip J Clapham world renowned cetologist and Director of the Cetacean Assessment and Ecology Program at the National Marine Mammal Laboratory in Seattle

*Life Study Guide* David E. Sadava, Gordon H. Orians, Craig Heller, William K. Purves, 2006-12-22 Especially helpful for AP Biology students each chapter of the study guide offers a variety of study and review tools The contents of each chapter are broken down into both a detailed review of the Important Concepts covered and a boiled down Big Picture snapshot The guide also covers study strategies common problem areas and provides a set of study questions both multiple choice and short answer

*Marine Mammal Biology* A. Rus Hoelzel, 2009-04-01 This book provides a general introduction to the biology of marine mammals and an overview of the adaptations that have permitted mammals to succeed in the marine environment Each chapter written by experts in their field will provide an up to date review and present the major discoveries and innovations in the field Important technical advances such as satellite telemetry and time depth recorders will be described in boxes

*Sensory Systems: II* ADELMAN, 2012-12-06 This series of books Readings from the Encyclopedia of Neuroscience consists of collections of subject clustered articles taken from the Encyclopedia of Neuroscience The Encyclopedia of Neuroscience is a reference source and compendium of more than 700 articles written by world authorities and covering all of neuroscience We define neuroscience broadly as including all those fields that have as a primary goal the understanding of how the brain and nervous system work to mediate control behavior including the mental behavior of humans Those interested in specific aspects of the neurosciences particular subject areas or specialties can of course browse through the alphabetically arranged articles of the Encyclopedia or use its index to find the topics they wish to read However for those readers students specialists or others who will find it useful to have collections of subject clustered articles from the Encyclopedia we issue this series of Readings in paperback Students in neuroscience psychology medicine biology the mental health professions and other disciplines will find that these collections provide concise summaries of cutting edge research in rapidly advancing fields The nonspecialist reader will find them useful summary statements of important neuroscience areas Each collection was compiled and includes an introductory essay by an



authority in that field      **Chemosensory Systems in Mammals, Fishes, and Insects** Wolfgang Meyerhof, Sigrun Korsching, 2009-04-23 The sense of smell has an essential role in locating food detecting predators navigating and communicating social information Accordingly the olfactory system has evolved complex repertoires of receptors to face these problems Although the sense of taste has less far reaching tasks they are every bit as essential for the animals well being allowing it to reject toxic materials and to select nutritionally valuable food The last decade has seen a massive advance in understanding the molecular logic of chemosensory information processing beyond that already achieved in the first few years following Linda Buck's discovery of odorant receptors Shortly afterwards the major principles of olfactory representation had been established in mammals as the one neuron one receptor rule and the convergence of neurons which express the same receptor onto individual modules in the olfactory bulb In recent years such studies have been extended to lower vertebrates including fishes and other phyla i.e. arthropods worms and insects showing both the general validity of these concepts and some exceptions to the rule In parallel hallmarks of the molecular logic of taste sensation have been deciphered and found to differ in interesting ways from those of smell sensation

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