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Marine mammals comprise some of the most highly adapted mammals, many with unbelievable diving capabilities, high intelligence and complex social behaviour, and some with brains larger than that of humans. Many possess echolocating and communication skills that we are only beginning to understand. This work brings together a group of experts focused upon cell and molecular biology of aquatic mammals. Methods currently being used to explore marine mammal biology are discussed, such as genetic tracing of subpopulations of whales and seals by DNA fingerprinting, use of immune system molecular markers, cell culture and ELISA techniques, and electron microscopy. The extraordinary ability of dolphins to echolocate has fascinated scientists and the public since its discovery in the late 1950's. This is the first book to summarize modern research in this area, and presents a broad synthesis of this very interdisciplinary subject. The author is an internationally-recognized expert on dolphin sonar and is thus in a unique position to bring together research on the physiological, mathematical and engineering aspects of the subject. Of interest to auditory researchers, electrical engineers, acoustical physicists, and mammalian physiologists. This book evolved through the efforts of several organizations and the dedication of many individuals. In 1987, we received a request to propose a workshop topic for the Fifth International Theriological Congress (ITC) to be held in August 1989 in Rome, Italy. After looking up the meaning of the word "theriological" in the dictionary and discovering that it pertains to mammalian behavior, we decided a symposium on sensory abilities of whales and dolphins would be an interesting topic. The ITC convenes only every five years and has the distinction of being very well attended by scientists from around the world. We thought that hosting a workshop in conjunction with the ITC would attract a variety of international scientists that rarely have the opportunity to interact. Fortunately for all

involved, our prediction was correct. The first two days of the workshop, 23-24 August 1989, were held in conjunction with ITC and the nearly 1,000 attending scientists were able to view our posters and listen to lectures. The third day was limited to only about 65 invited scientists who were divided into topical working groups chaired by a rapporteur. Here, 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 last decade has seen radical changes in our understanding of the behavior and ecology of seals, whales, and dolphins. This timely volume addresses subjects of critical importance to the field, with outstanding contributions from scientists actively involved in marine mammal research. Topics include the application of modern genetics to understanding populations and their social structure, the development of new methods of diet analysis, and the application of microelectronics to questions concerning the distribution, abundance, foraging behavior, and diving physiology of marine mammals. Scientists and students studying marine mammalogy, population ecology, and animal behavior--as well as fisheries biologists and mammalian conservationists--will welcome this exciting new contribution to the field. "Report of the Dominion fishery commission on the fisheries of the province of Ontario, 1893", issued as vol. 26, no. 7, supplement. Dolphins have fascinated humans for millennia, giving rise to an abundance of stories and myths about them. This book takes us into the dolphins' aquatic world to witness firsthand how they live their lives, communicate, and interact with one another and with other species, including people. European Whales, Dolphins, and Porpoises: Marine Mammal Conservation in Practice presents an intimate view of the workings of international conservation agreements to protect marine mammals, detailing achievements over the last 25 years, identifying weaknesses and making recommendations that governments, scientists, marine stakeholders and the public can take to improve conservation efforts. The book is written by an experienced marine mammal scientist and award-winning conservationist, providing a unique synthesis on their status, distribution and ecology. In addition, it presents information on various conservation threats, including fisheries by catch, contaminants, noise disturbance, plastic ingestion and climate change. This comprehensive resource will appeal to marine mammal conservationists and researchers, as well as environmental and wildlife practitioners at all levels. Offers an accessible review on how scientists study this challenging group of mammals to gather necessary evidence for conservation action Illustrates, with striking images, all recorded regional species, including distribution maps, key threats and specific research methods Includes contributions from leading scientists, conservationists, and members of government and international bodies, like IWC and UNEP The lead author of eight successful previous editions has brought together a team that combined, has well over 60 years experience in offering beginning biology labs to several thousand students each year at Iowa State University. Their experience and diverse backgrounds ensure that this extensively revised edition will meet the needs of a new generation of students. Designed to be used with all majors-level general biology textbooks, the included labs are investigative, using both discovery- and hypothesis-based science methods. Students experimentally investigate topics, observe structure, use critical thinking skills to predict and test ideas, and engage in hands-on learning. Students are often asked, "what evidence do you have that..." in order to encourage them to think for themselves. By emphasizing investigative, quantitative, and comparative approaches to the topics, the authors continually emphasize how the biological sciences are integrative, yet unique. An instructor's manual, available through McGraw-Hill Lab Central, provides detailed advice based on the authors' experience on how to prepare materials for each lab, teachings tips and lesson plans, and questions that can be used in quizzes and practical exams. This manual is an excellent choice for colleges and universities that want their students to experience the breadth of modern biology. Ever-increasing interest in oceanography and marine biology and their relevance to global environmental issues creates a demand for authoritative reviews summarising the results of recent research. Oceanography and Marine Biology: An Annual Review

has catered to this demand since its founding by the late Harold Barnes fifty years ago. Its objectives are to consider, annually, the basic areas of marine research, returning to them when appropriate in future volumes; to deal with subjects of special and topical importance; and to add new subjects as they arise. The favourable reception accorded to all the volumes shows that the series is fulfilling a very real need: reviews and sales have been gratifying. The fifty-first volume follows closely the objectives and style of the earlier volumes, continuing to regard the marine sciences—with all their various aspects—as a unity. Physical, chemical, and biological aspects of marine science are dealt with by experts actively engaged in these fields. The series is an essential reference text for researchers and students in all fields of marine science and related subjects, and it finds a place in libraries of not only marine stations and institutes, but also universities. It is consistently among the highest ranking impact factors for the marine biology category of the citation indices compiled by the Institute for Scientific Information. The importance of communication between dolphins and humans becomes apparent when World War III becomes a distinct possibility. Arion and the Dolphin is an opera in nine scenes for professionals and community performers. The libretto is by Vikram Seth and the music is composed by Alec Roth. Recounted with Seth's inimitable charm, it is the story of Arion, a young musician at the court of Periander in Corinth. Thrown overboard on his return from a musical contest in Sicily, Arion is saved and befriended by a dolphin.

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