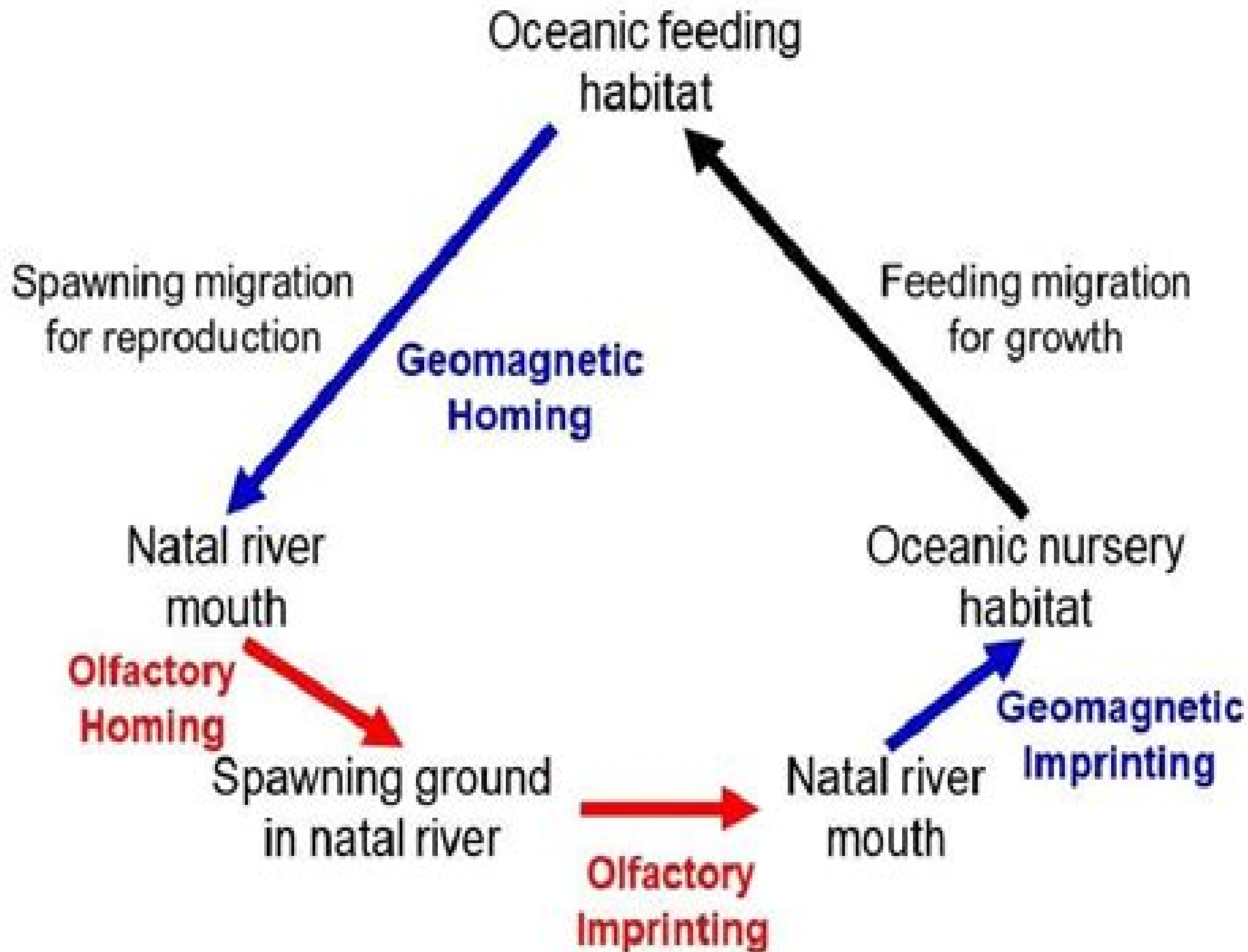
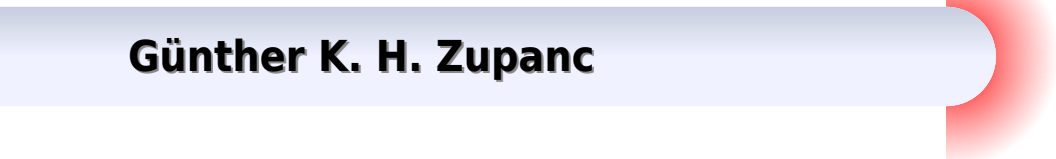




Olfactory Imprinting Homing In Salmon

Günther K. H. Zupanc



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Olfactory Imprinting and Homing in Salmon A.D. Hasler, A.T. Scholz, 2012-12-06 Chance Favors Only the Prepared Mind How does a scientist go about the task of pushing back the curtains of the unknown Certainly the romance of tackling the mysteries of nature provides the motivation for who would not be inspired by the remarkable life history of this romantic beast the salmon After living in the Pacific Ocean for several years salmon swim thousands of kilometers back to the stream of their birth to spawn I have always been fascinated by the homing migration of salmon Noone who has seen a 20 kilogram salmon fling itself into the air repeatedly until it is exhausted in a vain effort to surmount a waterfall can fail to marvel at the strength of the instinct that draws the salmon upriver to the stream where it was born But how does it find its way back I was puzzling over this problem during a family vacation in 1946 Inspired by the work of the great German Nobel Laureates Karl von Frisch and Konrad Lorenz I had been conducting research with my graduate student Theodore Walker since 1945 on the ability of fishes to discriminate odors emanating from aquatic plants Von Frisch had studied schooling minnows and discovered that if broken their skin emitted a con specific chemical substance termed Schreckstoff which caused other members of its school to disperse and hide *Behavioral and Biochemical Mechanisms of Olfactory Imprinting and Homing by Coho Salmon* Andrew Harris Dittman, 1994 **Physiology and Ecology of Fish Migration** Hiroshi Ueda, Katsumi Tsukamoto, 2013-08-07 Among the roughly 30 000 species of fish migratory species account for only 165 species but most of them are very important fisheries resources This book presents up to date innovative research results on the physiology and ecology of fish migration It focuses on salmon eels lampreys and bluefin tuna The book examines migratory behavior spawning and behavioral ecology *The Senses of Fish* Gerhard von der Emde, Joachim Mogdans, B.G. Kapoor, 2012-12-06 Fish comprise more than 50% of all living vertebrates and are found in a wide range of highly diverse habitats like the deep sea the shoreline tide pools tropical streams and sweetwater ponds During evolution the senses of fish have adapted to the physical conditions of the environment in which different species live As a result the senses of fish exhibit a remarkable diversity that allows different species to deal with the physical constraints imposed by their habitat In addition fish have evolved several new sensory systems that are unique to the aquatic environment In this book examples of adaptation and refinement are given for six sensory systems The visual system The auditory system The olfactory system The mechanosensory lateral line system The taste system The electrosensory system In each case the environmental conditions under which a particular group of fish lives are analyzed This is followed by a description of morphology and physiology of the sensory system and by an evaluation of its perceptual capabilities Finally the sensory adaptations to the particular conditions that prevail in the habitat of a species are highlighted The various examples from different groups of fish presented in this book demonstrate the impressive capability of fish sensory systems to effectively overcome physical problems imposed by the environment **NOAA Technical Report NMFS.** ,1984 *Mechanisms of Migration in Fishes*

James D. McCleave, 2013-03-13 The last major synthesis of our knowledge of fish migration and the underlying transport and guidance phenomena both physical and biological was Fish Migration published 16 years ago by F R Harden Jones 1968 That synthesis was based largely upon what could be gleaned by classical fishery biology techniques such as tagging and recapture studies commercial fishing statistics and netting and trapping studies Despite the fact that Harden Jones also provided with a good deal of thought and speculation a theoretical basis for studying the various aspects of fish migration and migratory orientation progress in this field has been with a few exceptions piecemeal and more disjointed than might have been expected Thus we welcomed the approach from the NATO Marine Sciences Programme Panel and the encouragement from F R Harden Jones to develop a proposal for and ultimately to organize a NATO Advanced Research Institute ARI on mechanisms of fish migration Substantial progress had been made with descriptive analytical and predictive approaches to fish migration since the appearance of Fish Migration Both because of the progress and the often conflicting results of research we felt that the time was again right and the effort justified to synthesize and to critically assess our knowledge Our ultimate aim was to identify the gains and shortcomings and to develop testable hypotheses for the next decade or two

Olfaction in Animal Behaviour and Welfare Birte L Nielsen, 2017-06-29 Evidence based yet entirely practical this important new text builds upon the basics of neuroscience to describe the links between olfaction and animal behaviour and the effects of odours in animal welfare Animals use smells in a multitude of ways to orientate themselves to create social bonds to recognise food to initiate reproduction and to avoid predators and imminent threats such as fire Starting from the scientific basis of olfaction and odour perception the book covers pheromones and behavioural tests before describing the role of olfaction in feeding behaviour reproduction disease detection and animal housing This is a captivating introduction to the world of smells suitable for advanced students researchers and teachers of applied ethology animal welfare and veterinary science

American River Pump Station Project, 2002 **Fish Physiology: Euryhaline Fishes** Stephen D. McCormick, Anthony Peter Farrell, Colin Brauner, 2013-01-11 The need for ion and water homeostasis is common to all life For fish ion and water homeostasis is an especially important challenge because they live in direct contact with water and because of the large variation in the salt content of natural waters varying by over 5 orders of magnitude Most fish are stenohaline and are unable to move between freshwater and seawater Remarkably some fishes are capable of life in both freshwater and seawater These euryhaline fishes constitute an estimated 3 to 5% of all fish species Euryhaline fishes represent some of the most iconic and interesting of all fish species from salmon and sturgeon that make epic migrations to intertidal mudskippers that contend with daily salinity changes With the advent of global climate change and increasing sea levels understanding the environmental physiology of euryhaline species is critical for environmental management and any mitigative measures This volume will provide the first integrative review of euryhalinity in fish There is no other book that focuses on fish that have the capacity to move between freshwater and seawater The different challenges of salt and water

balance in different habitats have led to different physiological controls and regulation which heretofore has not been reviewed in a single volume Collects and synthesizes the literature covering the state of knowledge of the physiology of euryhaline fish Provides the foundational information needed for researchers from a variety of fields including fish physiology conservation and evolutionary biology genomics ecology ecotoxicology and comparative physiology All authors are the leading researchers and emerging leaders in their fields *Adaptation to Altitude-Hypoxia in Vertebrates* P.

Bouverot, 2012-12-06 Adaptation to altitude hypoxia is characterized by a variety of functional changes which collectively facilitate oxygen transport from the ambient medium to the cells of the body All of these changes can be seen at one time or another in the course of hypoxic exposure Yet as already stressed Hannon and Vogel 1977 an examination of the literature gives only a sketchy and often conflicting picture of the exact nature of these changes and how they interact as a function of exposure duration This is partly because of the limited number of variables explored in a given study but it is also attributable to differences in experimental design differences among species in susceptibility to hypoxia nonstandardized experimental conditions lack of proper control of physical e.g. temperature and physiological variables e.g. body mass failure to take measurements at key periods of exposure and gaps in knowledge about some fundamental mechanisms Furthermore the available data on animals native to high altitude are meager and/or inconclusive Extensive further work under well controlled experimental conditions is required before a detailed picture can be made Nevertheless it has been a guiding principle in the preparation of this monograph rather to summarize the vastly dispersed material that constitutes the comparative physiology of adaptation to high altitude into a coherent picture than to provide a comprehensive survey of the field Spermatophores T. Mann, 2012-12-06 Physiology and biochemistry of male reproductive function and semen became

the main area of my research in 1944 after my attention was finally diverted from animal cells in general to mammalian spermatozoa specifically Ever since the interest has remained largely focussed on reproductive problems in mammals the work continuing mostly at the University of Cambridge where I was privileged to hold also the Marshall Walton Professorship in Physiology of Reproduction This work led to the publication of three books *The Biochemistry of Semen* Methuen 1954 *The Biochemistry of Semen and of the Male Reproductive Tract* Methuen 1964 and lately in co-authorship with my wife Dr Cecilia Lutwak Mann *Male Reproductive Function and Semen Themes and Trends in Physiology Biochemistry and Investigative Andrology* Springer Verlag 1981 In 1960 thanks to the Lalor Foundation I was able to avail myself for the first time of a chance to visit the Marine Biological Laboratory at Woods Hole and there to take part in a study of reproduction in marine animals Ever since first as Visiting Professor of Biology at the State University of Florida and later as the Walker Ames Professor and frequent visitor to the Department of Zoology at the University of Washington in Seattle it has been my good fortune to sustain this new interest and to pursue it further **Encyclopedia of Fish Physiology**, 2011-06-01 Fish form an extremely diverse group of vertebrates At a conservative estimate at least 40% of the world's vertebrates are fish On the one

hand they are united by their adaptations to an aquatic environment and on the other they show a variety of adaptations to differing environmental conditions often to extremes of temperature salinity oxygen level and water chemistry They exhibit an array of behavioural and reproductive systems Interesting in their own right this suite of adaptive physiologies provides many model systems for both comparative vertebrate and human physiologists This four volume encyclopedia covers the diversity of fish physiology in over 300 articles and provides entry level information for students and summary overviews for researchers alike Broadly organised into four themes articles cover Functional Thematic and Phylogenetic Physiology and Fish Genomics Functional articles address the traditional aspects of fish physiology that are common to all areas of vertebrate physiology including Reproduction Respiration Neural Sensory Central Effector Endocrinology Renal Cardiovascular Acid base Balance Osmoregulation Ionoregulation Digestion Metabolism Locomotion and so on Thematic Physiology articles are carefully selected and fewer in number They provide a level of integration that goes beyond the coverage in the Functional Physiology topics and include discussions of Toxicology Air breathing Migrations Temperature Endothermy etc Phylogenetic Physiology articles bring together information that bridges the physiology of certain groupings of fishes where the knowledge base has a sufficient depth and breadth and include articles on Ancient Fishes Tunas Sharks etc Genomics articles describe the underlying genetic component of fish physiology and high light their suitability and use as model organisms for the study of disease stress and physiological adaptations and reactions to external conditions Winner of a 2011 PROSE Award Honorable Mention for Multivolume Science Reference from the Association of American Publishers The definitive encyclopedia for the field of fish physiology Three volumes which comprehensively cover the entire field in over 300 entries written by experts Detailed coverage of basic functional physiology of fishes physiological themes in fish biology and comparative physiology amongst taxonomic Groups Describes the genomic bases of fish physiology and biology and the use of fish as model organisms in human physiological research Includes a glossary of terms *Behavioral Neurobiology* Günther K. H. Zupanc, 2010-05-13 Shaun D Cain The Journal of Experimental Biology Book Jacket **Fish Behavior and Its Use in the Capture and Culture of Fishes** International Center for Living Aquatic Resources Management, 1980-01-01 **Behaviour of Teleost Fishes** T.J. Pitcher, 1992-12-31 This is the second edition of an extremely important and well received book The editor has brought together an international team of experts in the subject producing a book which contains vital information on major aspects of this important subject It should appear on the shelves of animal behaviourists fish biologists and fisheries scientists The Branches of Ecology Frank N. Egerton, 2023-01-31 The ecological sciences are a diverse array of major scientific disciplines They grew from minor sciences with little status in 1900 and now occupy crucial areas of research bearing on the future of our planet This book describes a century of growth and development A dramatic century long rise in the status of ecological knowledge was accompanied by the rise of professional ecological organizations the establishment of university faculties and the creation of government agencies advising on

conservation natural resources and the prevention of pollution Like all sciences ecology continues to yield new findings and surprising revelations New technologies now address existential challenges facing our world This book documenting the rise of ecology is an inspiring history portending an important role in the twenty first century Key Features The author is the acknowledged authority on the history of ecology The content is familiar to members of the Ecological Society of America but has not previously been assembled into a single narrative Appropriate for a course in the history of ecology Provides a broad perspective on ecology Related Titles Egerton F N A Centennial History of the Ecological Society of America ISBN 978 0 3673 7763 2 Rieppel O Phylogenetic Systematics Haeckel to Hennig ISBN 978 0 3678 7645 6 Dronamraju K A Century of Geneticists Mutation to Medicine ISBN 978 1 4987 4866 7

Migration of Freshwater Fishes Martyn Lucas, Etienne Baras, 2008-04-15 Recent studies have increasingly demonstrated the widespread existence of spatio temporal variations in the abundance and distribution of species of freshwater fishes previously assumed not to move between habitats These movements are often on a seasonal or ontogenetic basis for spawning feeding and refuge and in many cases are fundamental for the successful completion of lifecycles This important book provides a single source for a range of previously widely dispersed information on these movements of fish in fresh waters covering potamodromous fishes as well as the more familiar diadromous species worldwide Contents include full descriptions of types of migration and spatial behaviour the stimulus and capacity for fish to migrate the effects of climate on patterns of migratory behaviour a taxonomic analysis mostly by family of freshwater fish migration methods for studying migration and details of the impacts of man s activities on freshwater fish migration Migration of Freshwater Fishes provides an excellent and comprehensive reference to which the river manager biologist or student can now refer to obtain information advice and current opinion on the migratory behaviour of most taxonomic groups of fishes occurring in fresh water University libraries and aquatic research stations should also have copies of this essential reference book on their shelves Well known international authors Of great commercial importance to fisheries and professional angling bodies Draws together much new information in one place Detailed review of world wide migratory behaviour for most groups of freshwater fishes Pure and applied relevance for academics fisheries scientists river managers and conservationists This comprehensive book includes 67 tables and figures and over 1 400 references

Behavioral Development Klaus Immelmann, George W. Barlow, Lewis Petrionovich, Mary Biggar Main, 1981-11-30

The Behaviour of Teleost Fishes Tony J. Pitcher, 2012-12-06 This book is about the behaviour of teleosts a well defined highly successful taxonomic group of vertebrate animals sharing a common body plan and forming the vast majority of living bony fishes There are well over 22000 living species of teleosts including nearly all those of importance in commercial fisheries and aquaculture Teleosts are represented in just about every conceivable aquatic environment from temporary desert pools to the deep ocean from soda lakes to sub zero Antarctic waters Behaviour is the primary interface between these effective survival machines and their environment behavioural plasticity is one of the keys to

their success The study of animal behaviour has undergone revolutionary changes in the past decade under the dual impact of behavioural ecology and sociobiology The modern body of theory provides quantitatively testable and experimental hypotheses Much current work in animal behaviour has concentrated on birds and mammals animals with ostensibly more complex structure physiology and behavioural capacity but there is a growing body of information about the behaviour of fishes There is now increasing awareness that the same ecological and evolutionary rules govern teleost fish and that their behaviour is not just a simplified version of that seen in birds and mammals The details of fish behaviour intimately reflect unique and efficient adaptations to their three dimensional aquatic environment

Olfaction and Taste

XI Kenzo Kurihara, Noriyo Suzuki, Hisashi Ogawa, 2013-11-11 In this compendium of current studies on olfaction and taste the most comprehensive yet to appear in this series the chemical senses are elucidated from points of view ranging from anatomy electrophysiology molecular biology especially chemoreceptor gene cloning biochemistry and psychophysics to the latest clinical and technological applications of chemosensory research Specific topics include the structure and function of the taste bud and olfactory epithelium the genetics and mechanisms of olfactory and taste transduction the chemistry and function of flavor compounds the psychophysics of taste and olfaction in daily human life the brain mechanisms of coding learning and memory in olfaction and taste the clinical assessment of taste and olfaction with special reference to aging and disorders noninvasive measurements of human olfactory and taste responses for therapeutic purposes artificial sensing devices chemoreception in aquatic organisms and other species and chemosensory transduction in insects With its multidisciplinary approach this volume will be an invaluable source of information not only for researchers clinicians and students but also for technologists in fields such as artificial sensing perfumery brewery food chemistry aquafarming and agriculture

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