

Edited by  
**Tony J. Pitcher**

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# *Behaviour of Teleost Fishes*

*Second edition*



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*Fish and Fisheries Series 7*



# Behaviour Of Teleost Fishes

**T.J. Pitcher**



## **Behaviour Of Teleost Fishes:**

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 experimentally accessible 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

**Behaviour of Teleost Fishes** T.J. Pitcher, 1993-01-14 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 over 22000 living species of teleosts including nearly all the fish 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 forms the primary interface between these effective survival machines and their environment behavioural plasticity is the key to the success of the teleost fishes In the decade before the publication of the first edition of this book 1986 the study of animal behaviour underwent revolutionary changes under the dual impact of the new fields of behavioural ecology and sociobiology Quantitative experimentally verifiable hypotheses about why individual animals behave were formulated for the first time and met with considerable success Much of the early work in these new fields concentrated on birds and mammals but material presented in the first edition of this book helped to demonstrate that fish behaviour is not just a simplified version of that seen in birds and mammals but obeys the same ecological and evolutionary rules In the five years since the first edition much of the early theory has matured optimal solutions to the problems of feeding and mating require subtle trade offs of energy balance

*The Behavior of Teleost Fishes* Tony J. Pitcher, *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

**Behavioural Ecology of Teleost Fishes** Jean-Guy J. Godin, 1999 Teleost bony fishes are found in all types of aquatic environment and are extremely diverse behaviorally Their evolutionary success is partly due to their striking behavioral plasticity as such they are also extremely useful organisms for the study of mechanistic and functional models of behavior Considerable progress has been made over the past decade in understanding how behavior ecology and genetics interact to determine individual survival and reproductive success in fishes and thus the evolution of their behavior Behavioural Ecology of Teleost Fishes reviews the latest advances in behavioral adaptations for survival and reproduction in fishes and proposes new directions and approaches for future research The book focuses on habitat selection and space use foraging predator avoidance and evasion and reproduction It also considers how the behaviour of individuals affects ecological processes at population and community levels The book benefits students teachers and researchers interested in the behavior and ecology of fishes as well as those with a general interest in behavioral ecology It is also a valuable reference source for biologists aquaculturists and conservationists

**Fish Cognition and Behavior** Culum Brown, Kevin Laland, Jens Krause, 2008-04-15 The study of animal cognition has been largely confined to birds and mammals a historical bias which has led to the belief that learning plays little or no part in the development of behaviour in fishes and reptiles Research in recent decades has begun to redress this misconception and it is now recognised that fishes exhibit a rich array of sophisticated behaviour with impressive learning capabilities entirely comparable with those of mammals and other terrestrial animals In this fascinating book an international team of experts have been brought together to explore all major areas of fish learning including foraging skills Predator recognition Social organisation and learning Welfare and pain Fish Cognition and Behavior is an important contribution to all fish biologists and ethologists and contains much information of commercial importance for fisheries managers and aquaculture personnel Libraries in universities and research establishments will find it an important addition to their shelves

**Vision and Visual Behaviour in Teleost Fish** Elizabeth Mary White, 2003

*Electrocommunication in Teleost Fishes* Bernd Kramer, 2012-12-06 Some fishes test their environment by generating electric fields outside their bodies man s first contact with electricity To send and receive electric signals one s own or those from a neighbor is the basis of some bony fishes unusual sensory capacities that enable them to lead a secret nocturnal life This volume provides the reader with a detailed account of these fishes biology and behavior and their sophisticated sensory capacities The phylogenetic relationships of the fish taxa involved are discussed as well as the physiology and anatomy of the electrosensory motor system and the integration to form an efficient intelligence system The main emphasis is on the descriptive and experimental analysis of electric communication behavior in a variety of species including studies of digital signal synthesis Whenever possible mechanisms of communication are indicated

**Reproductive Biology of Teleost Fishes** Robert J. Wootton, Carl Smith, 2014-12-03 Reproductive Biology of Teleost Fishes is the first integrated review of the reproductive biology of the bony fishes which are the most species rich and diversified group of vertebrates Teleosts display

remarkable variation in their modes of reproduction and this volume is intended to provide a framework for understanding the remarkable reproductive diversity of this group. It describes their reproductive biology using wherever possible phylogenetic analyses and life history theory as a means to interpret the information. The book addresses the genetic, physiological, behavioural, ecological, evolutionary, and applied aspects of teleost reproduction in a comparative framework that emphasises the adaptive basis of reproductive diversity. *Reproductive Biology of Teleost Fishes* provides a comprehensive synthesis of fish reproduction that will be of great interest to life scientists, particularly ecologists, evolutionary biologists, physiologists, and advanced undergraduates, postgraduates, and research workers requiring a comprehensive overview of fish reproduction. The book is suitable for courses in fish biology and ecology, reproductive physiology, and reproductive genetics. It also addresses applied questions and will be of value for courses on fisheries science and aquaculture. Libraries in all universities and research establishments where biological sciences, fisheries science, and aquaculture are studied and taught should have several copies of this important book on their shelves.

[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 highlight 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 Behavioural Ecology of Teleost Fishes Jean-Guy J. Godin,1997 The differing behaviours of bony fishes are described in this guide to the most abundant vertebrate found on the planet Their behaviour and research done on it have encouraged the proposal to adopt new approaches and new directions in studying them

Neuroendocrine Regulation of Feeding and Reproduction in Fish Shan He, José A. Muñoz-Cueto, Bin Wang, 2023-04-05

**Fish as Models of Behaviour** Fisheries Society of the British Isles. Annual Symposium, 2003 **Tracking the Behaviour and Energy Use of Teleost Fish** ,2014 **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

Tracking the Behaviour and Energy Use of Teleost Fish Serena Rakiya Wright, 2014 Journal of Ichthyology , 2008

The Physiology of Developing Fish William Stewart Hoar, David J. Randall, 1988 **Biology of Tropical Fishes**

Adalberto Luís Val, 1999 Biology of tropical fish The phosphagen system in vertebrate muscles new insights Detrended canonical correspondence analysis DCCA of electric fish assemblages in the Amazon Mechanisms of signal analysis in Eigenmannia Gymnotiformes the jamming avoidance response and communication Habitat abundance patterns of fish communities in three Amazonian rainforest streams Recovery of an Amazonian blackwater fish fauna after extreme drought The South American lungfish adaptations to an extreme habitat Management and diseases of the ornamental fish exported from the Rio Negro basin Reproductive behaviour and ecology of two species of Cichlid fishes Feeding habitats of nine cichlids found in Batata Lake Porto Trombetas PA Brazil Digestibility of seeds consumed by tambaqui Colossoma macropomum Cuvier 1818 an experimental approach Effects of season and arousal state on the novelty response in Gymnotus carapo Temperature and reproduction in Northern fish Temperature and responsiveness of teleost melanophores

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