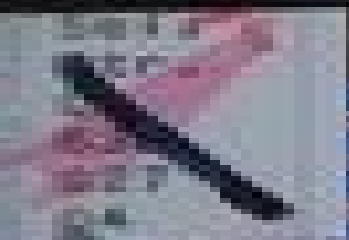


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Prey Density And Selection Against Oddity By Threespined Sticklebacks:

Prey Density and Selection Against Oddity by Three-spined Sticklebacks Osamu Ohguchi, 1981 *A Functional Biology of Sticklebacks* R. J. Wootton, 2023-11-15 Explore the fascinating world of the threespine stickleback in *A Functional Biology of Sticklebacks* a compelling synthesis of empirical research and theoretical ecology This groundbreaking book uses the stickleback a versatile teleost fish as a model organism to illuminate the intricate relationships between environmental factors life history strategies and evolutionary processes With their global distribution remarkable variability and adaptability to diverse habitats sticklebacks offer a unique opportunity to test ecological and evolutionary theories in real world contexts From their energy budgets to their reproductive strategies this book provides a holistic view of how these fish thrive in dynamic and often hostile environments Structured around a functional input output framework the book delves into the physiological morphological and behavioral mechanisms that enable sticklebacks to convert resources into reproductive success It highlights the pivotal role of natural selection and ecological interactions such as predation competition and parasitism in shaping their growth survival and reproduction With its seamless integration of theoretical models and empirical data *A Functional Biology of Sticklebacks* not only sheds light on this remarkable fish family but also sets a precedent for studying life history strategies across other species Perfect for students researchers and enthusiasts of ecology and evolutionary biology this book is a testament to the power of merging theory with biological reality This title is part of UC Press's Voices Revived program which commemorates University of California Press's mission to seek out and cultivate the brightest minds and give them voice reach and impact Drawing on a backlist dating to 1893 Voices Revived makes high quality peer reviewed scholarship accessible once again using print on demand technology This title was originally published in 1984

Antipredator Defenses in Birds and Mammals Timothy M. Caro, 2005-09 Tim Caro explores the many varied ways in which prey species have evolved defensive characteristics and behaviour to confuse outperform or outwit their predators from the camouflaged coat of the giraffe to the extraordinary way in which South American sealions ward off the attacks of killer whales

Behavioural Mechanisms of Food Selection Roger N. Hughes, 2013-06-29 *Behavioural Mechanisms of Food Selection* examines animals belonging to diverse trophic groups from carnivores herbivores micro algal grazers to filter feeders and detritus feeders In the past Optimal Foraging Theory has been applied to all these groups but in different ways and in disciplines that rarely overlap Here concepts and developments hitherto scattered in the literature are drawn together This uniquely broad synthesis captures the state of the art in the study of diet selection and prescribes new objectives in theoretical development and research

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

Insect Defenses David L. Evans, Justin O. Schmidt, 1990-07-19 This work takes a fresh modern approach to investigate and explain the predator and prey relationships of insects and spiders the major terrestrial fauna on earth Devoted to broad and in depth analysis of arthropod defenses against predators the book's approach is both experimentally and theoretically based with major emphasis on evolution predator strategies and tactics and prey defensive adaptations and behaviors The authors explain such topics as cryptic and aposematic coloration the conflict between sexual and survival needs web spider prey choice and evolution of prey counter defenses predator prey interactions and the origins of intelligence bird predatory tactics and caterpillar defense strategies Also examined is the use of timing for fitness and survival evolutionary gamesmanship in the predatory bat moth relationship colony defense by paper wasps startle as a defense by moths aggregation as a defense chemicals as defenses plant chemicals as defenses and venoms as defenses The authors illustrate each topic with numerous specific well documented examples presented in a clear readable style

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

Chemical Signals in Vertebrates 4 David Duvall, Dietland Müller-Schwarze, Robert M. Silverstein, 2012-12-06 This volume reviews recent developments in our understanding of chemical signaling in vertebrates After sections dealing with general principles and chemical aspects of vertebrate pheromones it follows a taxonomic approach progressing from fish to mammals The editors asked a diverse international group of leading investigators working on a wide array of vertebrate taxa and specific issues to consider their efforts from comparative evolutionary and ecological viewpoints The relative number of manuscripts in each part does not necessarily reflect current intensity of research since the editors invited speakers who together would provide a balanced and comprehensive overview while avoiding duplication Still the part on mammals is the longest Fourth in a series dating from 1977 this volume illuminates current trends and likely future developments in the field

of chemical signaling in vertebrates Going back even farther the first chapter a personal account of the past quarter century by Dr Mykytowycz recalls the most important milestones such as symposia or the founding of societies and journals He also credits those investigators who stand out by their seminal studies

Model Systems in Behavioral Ecology Lee Alan Dugatkin, 2019-12-31 A key way that behavioral ecologists develop general theories of animal behavior is by studying one species or a closely related group of species model systems over a long period This book brings together some of the field's most respected researchers to describe why they chose their systems how they integrate theoretical conceptual and empirical work lessons for the practice of the discipline and potential avenues of future research Their model systems encompass a wide range of animals and behavioral issues from dung flies to sticklebacks dolphins to African wild dogs from foraging to aggression territoriality to reproductive suppression *Model Systems in Behavioral Ecology* offers an unprecedented systems focus and revealing insights into the confluence of personal curiosity and scientific inquiry It will be an invaluable text for behavioral ecology courses and a helpful overview and a preview of coming developments for advanced researchers The twenty five chapters are divided into four sections insects and arachnids amphibians and reptiles birds and mammals In addition to the editor the contributors include Geoff A Parker Thomas D Seeley Naomi Pierce Kern Reeve Gerald S Wilkinson Bert H Ildobler and Flavio Roces George W Uetz Michael J Ryan and Gil Rosenthal Judy Stamps H Carl Gerhardt Barry Sinervo Robert Warner Manfred Milinski David F Westneat Alan C Kamil and Alan B Bond Paul Sherman Jerram L Brown Anders Pape Møller Marc Bekoff Richard C Connor Joan B Silk Christopher Boesch Scott Creel A H Harcourt and Tim Caro and M J Kelly

Ecology of Teleost Fishes Robert J. Wootton, 2012-12-06 Among the fishes a remarkably wide range of biological adaptations to diverse habitats has evolved As well as living in the conventional habitats of lakes ponds rivers rock pools and the open sea fish have solved the problems of life in deserts in the deep sea in the cold antarctic and in warm waters of high alkalinity or of low oxygen Along with these adaptations we find the most impressive specializations of morphology physiology and behaviour For example we can marvel at the high speed swimming of the marlins sailfish and warm blooded tunas air breathing in catfish and lungfish parental care in the mouth brooding cichlids and viviparity in many sharks and toothcarps Moreover fish are of considerable importance to the survival of the human species in the form of nutritious and delicious food of numerous kinds Rational exploitation and management of our global stocks of fishes must rely upon a detailed and precise insight of their biology The Chapman and Hall Fish and Fisheries Series aims to present timely volumes reviewing important aspects of fish biology Most volumes will be of interest to research workers in biology zoology ecology and physiology but an additional aim is for the books to be accessible to a wide spectrum of non specialist readers ranging from undergraduates and postgraduates to those with an interest in industrial and commercial aspects of fish and fisheries

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