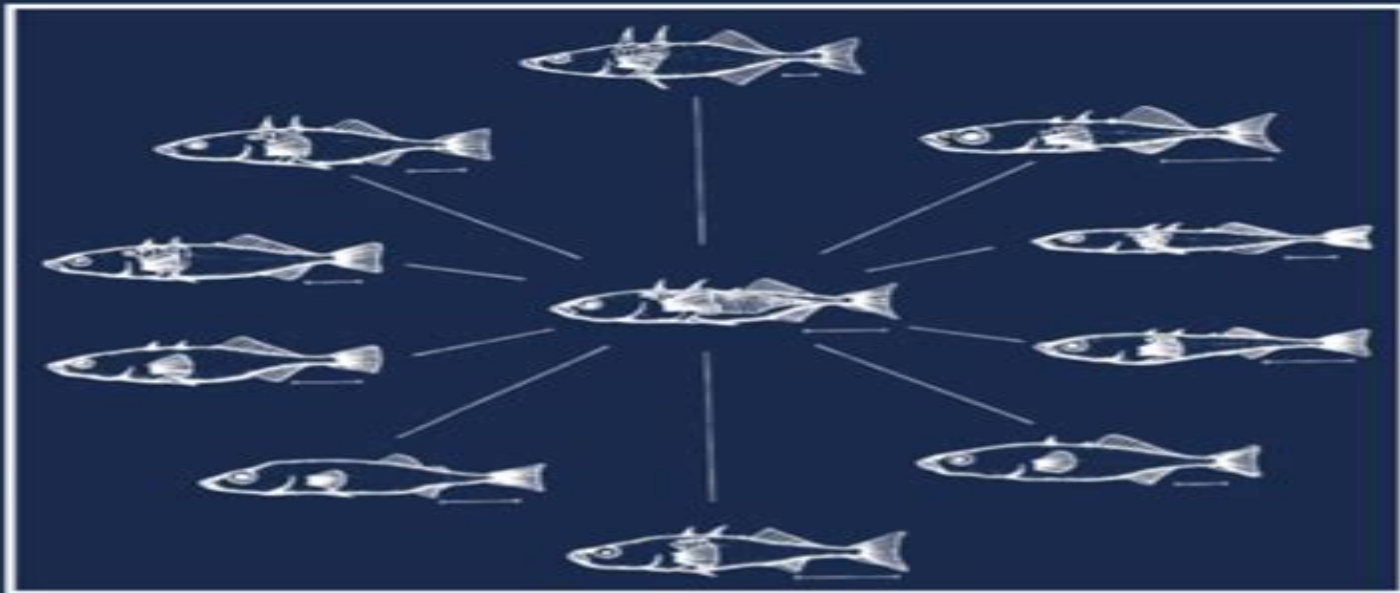


# THE EVOLUTIONARY BIOLOGY OF THE THREESPINE STICKLEBACK

MICHAEL A. BELL  
SUSAN A. FOSTER



# Evolutionary Biology Of The Threespine Stickleback

**Sebastian Brünink**



## **Evolutionary Biology Of The Threespine Stickleback:**

*The Evolutionary Biology of the Threespine Stickleback* Michael A. Bell, Susan Adlai Foster, 1994 The threespine stickleback is a small fish of temperate coastal and fresh waters that exhibits extraordinary phenotypic diversity Benefiting from its amenability to observation in the field and manipulation in the laboratory Niko Tinbergen pioneered the threespine stickleback's use in behavioral studies and established it as a model system in ethology This up to date volume incorporates reviews from active researchers who use studies of the fish to address a broad variety of evolutionary issues including optimal foraging armor variation speciation and the endocrine basis for correlated behavioral characters The work demonstrates the value of viewing the biology of a single organism simultaneously from multiple perspectives Students and researchers in ecology evolution animal behavior and vertebrate zoology will find much of interest in this useful book

**Biology of the Three-Spined Stickleback** Sara Ostlund-Nilsson, Ian Mayer, Felicity Anne Huntingford, 2006-12-15 Highlighting the growing importance of the sticklebacks as a model species in emerging fields such as molecular genetics genomics and environmental toxicology *Biology of the Three Spined Stickleback* examines data from researchers who use studies of the stickleback to address a wide range of biological issues This state of the art volume **Evolutionary Ecology of Freshwater Animals** B. Streit, T. Städler, C.M. Lively, 2013-03-11 Evolutionary ecology includes aspects of community structure trophic interactions life history tactics and reproductive modes analyzed from an evolutionary perspective Freshwater environments often impose spatial structure on populations e.g. within large lakes or among habitat patches facilitating genetic and phenotypic divergence Traditionally freshwater systems have featured prominently in ecological research and population biology This book brings together information on diverse freshwater taxa with a mix of critical review synthesis and case studies Using examples from bryozoans rotifers cladocerans molluscs teleosts and others the authors cover current conceptual issues of evolutionary ecology in considerable depth The book can serve as a source of critically evaluated ideas detailed case studies and open problems in the field of evolutionary ecology It is recommended for students and researchers in ecology limnology population biology and evolutionary biology *Patterns and Processes of Vertebrate Evolution* Robert Lynn Carroll, 1997-04-28 The factors that influenced the evolution of the vertebrates are compared with the importance of variation and selection that Darwin emphasised in this broad study of the patterns and forces of evolutionary change **The Adaptive Landscape in Evolutionary Biology** Erik I. Svensson, Ryan Calsbeek, 2012-05-17 The Adaptive Landscape has been a central concept in population genetics and evolutionary biology since this powerful metaphor was first formulated in 1932 This volume brings together historians of science philosophers ecologists and evolutionary biologists to discuss the state of the art from several different perspectives [Encyclopedia of Evolutionary Biology](#), 2016-04-14 *Encyclopedia of Evolutionary Biology* Four Volume Set is the definitive go to reference in the field of evolutionary biology It provides a fully comprehensive review of the field in an easy to search structure Under the

collective leadership of fifteen distinguished section editors it is comprised of articles written by leading experts in the field providing a full review of the current status of each topic The articles are up to date and fully illustrated with in text references that allow readers to easily access primary literature While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology they are also intended to be accessible to both advanced undergraduate and graduate students Broad topics include the history of evolutionary biology population genetics quantitative genetics speciation life history evolution evolution of sex and mating systems evolutionary biogeography evolutionary developmental biology molecular and genome evolution coevolution phylogenetic methods microbial evolution diversification of plants and fungi diversification of animals and applied evolution Presents fully comprehensive content allowing easy access to fundamental information and links to primary research Contains concise articles by leading experts in the field that ensures current coverage of each topic Provides ancillary learning tools like tables illustrations and multimedia features to assist with the comprehension process

Tinbergen's Legacy in Behaviour Frank Von Hippel, 2010 This book traces important scientific advances in ethology evolutionary biology ecology ecotoxicology and developmental genetics made possible through the stickleback model via a selection of key papers published in the first 60 years of Behaviour along with commentary and retrospective essays

Evolution and Belief Robert J. Asher, 2012-02-23 Asher draws on his experiences as a paleontologist and a religious believer arguing that science does not contradict religious belief

**Morphometrics for Nonmorphometricians** Ashraf M.T. Elewa, 2010-06-09 This introduction to morphometrics does not rely on complex mathematics and statistics It includes application case studies in fields ranging from paleontology to evolutionary ecology and it discusses software for analyzing and comparing shape

Animal Personalities Claudio Carere, Dario Maestripieri, 2024-05-31 Ask anyone who has owned a pet and they ll assure you that yes animals have personalities And science is beginning to agree Researchers have demonstrated that both domesticated and nondomesticated animals from invertebrates to monkeys and apes behave in consistently different ways meeting the criteria for what many define as personality But why the differences and how are personalities shaped by genes and environment How did they evolve The essays in Animal Personalities reveal that there is much to learn from our furred and feathered friends The study of animal personality is one of the fastest growing areas of research in behavioral and evolutionary biology Here Claudio Carere and Dario Maestripieri along with a host of scholars from fields as diverse as ecology genetics endocrinology neuroscience and psychology provide a comprehensive overview of the current research on animal personality Grouped into thematic sections chapters approach the topic with empirical and theoretical material and show that to fully understand why personality exists we must consider the evolutionary processes that give rise to personality the ecological correlates of personality differences and the physiological mechanisms underlying personality variation

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state of evolutionary developmental anthropology This emerging scientific field applies tools and approaches from modern developmental biology to understand the role of genetic and developmental processes in driving morphological and cognitive evolution in humans non human primates and in the laboratory organisms used to model these changes Featuring contributions from well established pioneers and emerging leaders this volume is designed to build research momentum and catalyze future innovation in this burgeoning field The book s broad research scope encompasses soft and hard tissues of the head and body including the skeleton special senses and the brain Developmental Approaches to Human Evolution is an invaluable resource on the mechanisms of primate and vertebrate evolution for scholars across a wide array of intersecting disciplines including primatology paleoanthropology vertebrate morphology evolutionary developmental biology and health sciences

**In Search of the Causes of Evolution** Peter R. Grant, B. Rosemary Grant, 2021-07-13 Evolutionary biology has witnessed breathtaking advances in recent years Some of its most exciting insights have come from the crossover of disciplines as varied as paleontology molecular biology ecology and genetics This book brings together many of today s pioneers in evolutionary biology to describe the latest advances and explain why a cross disciplinary and integrated approach to research questions is so essential Contributors discuss the origins of biological diversity mechanisms of evolutionary change at the molecular and developmental levels morphology and behavior and the ecology of adaptive radiations and speciation They highlight the mutual dependence of organisms and their environments and reveal the different strategies today s researchers are using in the field and laboratory to explore this interdependence Peter and Rosemary Grant renowned for their influential work on Darwin s finches in the Gal pagos provide concise introductions to each section and identify the key questions future research needs to address In addition to the editors the contributors are Myra Awoodey Christopher N Balakrishnan Rowan D H Barrett May R Berenbaum Paul M Brakefield Philip J Currie Scott V Edwards Douglas J Emlen Joshua B Gross Hopi E Hoekstra Richard Hudson David Jablonski David T Johnston Mathieu Joron David Kingsley Andrew H Knoll Mimi A R Koehl June Y Lee Jonathan B Losos Isabel Santos Magalhaes Albert B Phillimore Trevor Price Dolph Schluter Ole Seehausen Clifford J Tabin John N Thompson and David B Wake

**Homoplasy** Michael J. Sanderson, Larry Hufford, 1996-10-21 Why do unrelated organisms sometimes appear almost identical in details of the anatomy behavior physiology and ecology Homoplasy assembles leaders in evolutionary biology to explore issues of parallelism convergence and reversals This innovative book is certain to provoke discussion of homoplasy compelling evidence for particular theories of evolutionary change The first book on this increasingly interesting subject Includes authoritative treatments from leading experts expressing a variety of viewpoints

**Socio-Genetics** , 2009-11-12 Socio Genetics seeks to understand both the genetic and environmental contributions to individual variations in behavior Behaviors like all complex traits involve multiple genes a reality that complicates the search for genetic contributions As with much other research in genetics studies of genes and behavior require analysis of families and populations for comparison of those

who have the trait in question with those who do not The result commonly is a statement of heritability a statistical construct that estimates the amount of variation in a population that is attributable to genetic factors The explanatory power of heritability figures is limited however applying only to the population studied and only to the environment in place at the time the study was conducted If the population or the environment changes the heritability most likely will change as well Focused on the genetics of complex traits in a variety of organisms honeybees mice and nematodes this volume discusses environmental influence on genetic programs and evolutionary genetics Such research is proving important in furthering our understanding of the genetic basis of such diseases as obesity schizophrenia multiple sclerosis and autism to name a few Most recent research findings on gene environment interaction and complex behavior allows researchers to make predictions about the genetic mechanisms that underlie some basic behaviors eating for example leading to new and novel treatments for some genetically based abnormal behaviors Reviews environmental programming of phenotypic diversity in female reproductive strategies providing important insight into fertility and in developing therapeutic strategies to treat infertility

**Evolutionary Genetics** Glenn-Peter Sætre, Mark Ravinet, 2019 With recent technological advances vast quantities of genetic and genomic data are being generated at an ever increasing pace The explosion in access to data has transformed the field of evolutionary genetics A thorough understanding of evolutionary principles is essential for making sense of this but new skill sets are also needed to handle and analyze big data This contemporary textbook covers all the major components of modern evolutionary genetics carefully explaining fundamental processes such as mutation natural selection genetic drift and speciation It also draws on a rich literature of exciting and inspiring examples to demonstrate the diversity of evolutionary research including an emphasis on how evolution and selection has shaped our own species Practical experience is essential for developing an understanding of how to use genetic and genomic data to analyze and interpret results in meaningful ways In addition to the main text a series of online tutorials using the R language serves as an introduction to programming statistics and analysis Indeed the R environment stands out as an ideal all purpose source platform to handle and analyze such data The book and its online materials take full advantage of the authors own experience in working in a post genomic revolution world and introduces readers to the plethora of molecular and analytical methods that have only recently become available Evolutionary Genetics is an advanced but accessible textbook aimed principally at students of various levels from undergraduate to postgraduate but also for researchers looking for an updated introduction to modern evolutionary biology and genetics *Understanding the Impact and Invasion Success of Aquatic Non-native Species: How they Interact with Novel Environments and Native Biota* Ali Serhan Tarkan, Paraskevi K. Karachle, Nildeniz Top Karakuş, Eleni Kalogianni, Baran Yoğurtçuoğlu, Elena Tricarico, 2022-01-18 **Predation in Organisms** Ashraf M.T. Elewa, 2007-01-10 Predation is considered one of the distinct phenomena related to the interrelationships between species on the Earth In general predation is widespread not only in wildlife but also in marine environments where big fishes eat small

fishes and other organisms of the sea This book considers predation in organisms and is aimed at the prevention of predation in wildlife and marine environments

**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

**Inland Fishes of California** Peter B. Moyle, 2002-05-21 When the first edition of Inland Fishes of California was published in 1976 it was a benchmark reference Since that time our knowledge of California s freshwater fishes has dramatically increased This completely revised edition incorporates a vast amount of new information and creates a fresh synthesis of the historical data Written by the leading expert on California s freshwater fishes and illustrated with beautiful line drawings this compendium is the single best source for understanding and identifying the state s freshwater fishes It is an essential resource for anyone who needs to have accurate and detailed information on California s fishes at their fingertips Since the 1870s the state s native fishes have been joined by thirty four alien species which now dominate many bodies of water This book treats both native and introduced species first in a key for identification and then in individual species accounts covering characteristics taxonomy names distribution and life history Each account includes the author s personal assessment of how well the species is doing and problems associated with its management Most of the native fishes are found only in California and show many wonderful adaptations for living in the state s diverse waters Unfortunately many are also in danger of extinction The message underlying the first edition of this book was that we knew astonishingly little about many of California s inland fishes Although our knowledge is increasing full accounts of some native fishes may not be complete before they become extinct Preventing the loss of native fishes is the major goal of this book and

Moyle makes important suggestions for conservation strategies as well as presenting up to date information on ecology life history and distribution With this knowledge preserving our native fishes becomes possible even in the face of the state s growing economy and population

**Developmental Plasticity and Evolution** Mary Jane West-Eberhard, 2003-03-13 West Eberhard widely recognized as one of the most incisive thinkers in evolutionary biology assesses all the evidence for our current understanding of the role of changes in body plan and development for the process of speciation The process of evolution is systematically reassessed to integrate the insights coming from developmental genetics



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