



The
PARADOX *of*
EVOLUTION

The Strange Relationship Between
NATURAL SELECTION
and **REPRODUCTION**



STEPHEN ROTHMAN

Paradox Evolution Relationship Selection Reproduction

Bruce Walsh, Michael Lynch



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The Paradox of Evolution Stephen Rothman, 2015-12-01 This book examines a little noted contradiction inherent in the two essential elements of Darwin's theory of biological evolution natural selection and reproduction Physiologist Stephen Rothman makes the revolutionary claim that the evolution of life's complex and diverse reproductive mechanisms is not the consequence of natural selection In so doing he exposes the deepest question possible about life's nature its reason for being In meticulously detailed but accessible terms he lays out the crux of the paradox and offers an intriguing solution within a naturalistic framework In an ostensibly purposeless universe somehow purposeful life has evolved For all living things there are two overarching purposes survival and the creation of new life Natural selection is about the survival of existing life but has no interest in life's future about whether it persists or perishes By contrast reproduction is only about the future of life and has no interest in existing life except as a means to that end Where do these purposes come from As Rothman demonstrates at every level life is wired to react to danger Counterintuitively without the danger to its existence life would not have come into being As for reproduction nature's destructive forces drive the creation of new life Written with great clarity and informed by deep learning this elegant thoughtful work tackles some of the most challenging questions raised by the theory of evolution while calling to mind Darwin's famous words from the conclusion of *On the Origin of Species* There is a grandeur in this view of life

Mating Systems and Strategies Stephen M. Shuster, Michael J. Wade, 2019-12-31 This book presents the first unified conceptual and statistical framework for understanding the evolution of reproductive strategies Using the concept of the opportunity for sexual selection the authors illustrate how and why sexual selection though restricted to one sex and opposed in the other is one of the strongest and fastest of all evolutionary forces They offer a statistical framework for studying mating system evolution and apply it to patterns of alternative mating strategies In doing so they provide a method for quantifying how the strength of sexual selection is affected by the ecological and life history processes that influence females spatial and temporal clustering and reproductive schedules Directly challenging verbal evolutionary models that attempt to explain reproductive behavior without quantitative reference to evolutionary genetics this book establishes a more solid theoretical foundation for the field Among the weaknesses the authors find in the existing data is the apparent ubiquity of condition dependent mating tactics They identify factors likely to contribute to the evolution of alternative mating strategies which they argue are more common than generally believed and illustrate how to measure the strength of selection acting on them Lastly they offer predictions on the covariation of mating systems and strategies consider the underlying developmental biology behind male polyphenism and propose directions for future research Informed by genetics this is a comprehensive and rigorous new approach to explaining mating systems and strategies that will influence a wide swath of evolutionary biology

Evolution of Animal Behavior Matthew H. Nitecki, Jennifer A. Kitchell, 1986-08-14 This volume highlights current research in the field of animal behavior with an emphasis on evolutionary

perspectives The contributors represent paleontological field and experimental approaches They focus on a series of studies that confront wide ranging issues including sexual selection mate choice differential parental investment apparent altruism cooperative behavior and the relevance of phylogenetic constraints and historical information The volume will be of special interest to evolutionary biologists behavioral ecologists and paleontologists *Research Handbook on Partnering across the Life Course* Dimitri Mortelmans, Laura Bernardi, Brienna Perelli-Harris, 2025-04-09 This is an open access title available under the terms of a CC BY NC ND 4.0 License It is free to read download and share on Elgaronline.com This Research Handbook provides a comprehensive overview of the changing landscape of human partnerships integrating diverse theoretical and empirical perspectives Leading scholars explore the complex interplay between individual life trajectories societal norms and legal frameworks in shaping modern relationships Mating Intelligence Glenn Geher, Geoffrey Miller, Geoffrey F. Miller, 2008

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It offers a range of perspectives on the poetics politics and erotics of the poems beginning with a critical survey of recent research and concluding with papers on the ancient medieval and modern reception of the poems *The Evolutionary Roots of Reproductive Ageing and Reproductive Health Across the Tree of Life* Jean-Francois Lemaitre, Jean-Michel Gaillard, 2024-01-02

Evolutionary Medicine Edward P Bass Professor of Ecology and Evolutionary Biology Stephen C Stearns, David W Wallace Professor of Immunobiology Ruslan Medzhitov, 2024-07 With recent updates the second edition of Evolutionary Medicine presents general principles of evolutionary biology and organismal design then applies them to medical issues where these principles bring useful insights *Evolution and Selection of Quantitative Traits* Bruce Walsh, Michael Lynch, 2018-06-21

Quantitative traits be they morphological or physiological characters aspects of behavior or genome level features such as the amount of RNA or protein expression for a specific gene usually show considerable variation within and among populations Quantitative genetics also referred to as the genetics of complex traits is the study of such characters and is based on mathematical models of evolution in which many genes influence the trait and in which non genetic factors may also be important Evolution and Selection of Quantitative Traits presents a holistic treatment of the subject showing the interplay between theory and data with extensive discussions on statistical issues relating to the estimation of the biologically relevant parameters for these models Quantitative genetics is viewed as the bridge between complex mathematical models of trait evolution and real world data and the authors have clearly framed their treatment as such This is the second volume in a planned trilogy that summarizes the modern field of quantitative genetics informed by empirical observations from wide ranging fields agriculture evolution ecology and human biology as well as population genetics statistical theory mathematical modeling genetics and genomics Whilst volume 1 1998 dealt with the genetics of such traits the main focus of volume 2 is on their evolution with a special emphasis on detecting selection ranging from the use of genomic and historical data through to ecological field data and examining its consequences 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

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