

# A FUNCTIONAL BIOLOGY OF CLONAL ANIMALS

Edited by

Peter Calow



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# Functional Biology Of Clonal Animals

**Niles Eldredge**



## **Functional Biology Of Clonal Animals:**

**Functional Biology of Clonal Animals** Roger Neville Hughes, 1989-10-31 Clonal animals that is those that are genetically identical are of great importance in biology The supposed evolutionary advantages of sexual versus asexual reproduction are one of the central paradoxes of current evolutionary theory The evolved strategy of asexual reproduction includes a large number of diverse species in many different groups for example aphids guppies planktonic rotifers and others

**A Functional Biology of Sea Anemones** J. Malcolm Shick, 2012-12-06 General Editor Peter Calow Department of Zoology University of Sheffield England The main aim of this series will be to illustrate and to explain the way organisms make a living in nature At the heart of this their Junctional biology is the way organisms acquire and then make use of resources in metabolism movement growth reproduction and so on These processes will form the fundamental framework of all the books in the series Each book will concentrate on a particular taxon species family class or even phylum and will bring together information on the form physiology ecology and evolutionary biology of the group The aim will be not only to describe how organisms work but also to consider why they have come to work in that way By concentrating on taxa which are well known it is hoped that the series will not only illustrate the success of selection but also show the constraints imposed upon it by the physiological morphological and developmental limitations of the groups Another important feature of the series will be its organismic orientation Each book will emphasize the importance of functional integration in the day to day lives and the evolution of organisms This is crucial since though it may be true that organisms can be considered as collections of gene determined traits they nevertheless interact with their environment as integrated wholes and it is in this context that individual traits have been subjected to natural selection and have evolved

*A Functional Biology of Parasitism* G.W. Esch, J.C. Fernandez, 2013-03-07 Series Editor Peter Calow Department of Zoology University of Sheffield England The main aim of this series will be to illustrate and to explain the way organisms make a living in nature At the heart of this their functional biology is the way organisms acquire and then make use of resources in metabolism movement growth reproduction and so on These processes will form the fundamental framework of all the books in the series Each book will concentrate on a particular taxon species family class or even phylum and will bring together information on the form physiology ecology and evolutionary biology of the group The aim will be not only to describe how organisms work but also to consider why they have come to work in that way By concentration on taxa which are well known it is hoped that the series will not only illustrate the success of selection but also show the constraints imposed upon it by the physiological morphological and developmental limitations of the groups Another important feature of the series will be its organismic orientation Each book will emphasize the importance of functional integration in the day to day lives and the evolution of organisms This is crucial since though it may be true that organisms can be considered as collections of gene determined traits they nevertheless interact with their environment as integrated wholes and it is in this context that individual traits

have been subjected to natural selection and have evolved

**Biological Individuality** Scott Lidgard, Lynn K Nyhart, 2017-05-24 Individuals are things that everybody knows or thinks they do Yet even scholars who practice or analyze the biological sciences often cannot agree on what an individual is and why One reason for this disagreement is that the many important biological individuality concepts serve very different purposes defining classifying or explaining living structure function interaction persistence or evolution Indeed as the contributors to Biological Individuality reveal nature is too messy for simple definitions of this concept organisms too quirky in the diverse ways they reproduce function and interact and human ideas about individuality too fraught with philosophical and historical meaning Bringing together biologists historians and philosophers this book provides a multifaceted exploration of biological individuality that identifies leading and less familiar perceptions of individuality both past and present what they are good for and in what contexts Biological practice and theory recognize individuals at myriad levels of organization from genes to organisms to symbiotic systems We depend on these notions of individuality to address theoretical questions about multilevel natural selection and Darwinian fitness to illuminate empirical questions about development function and ecology to ground philosophical questions about the nature of organisms and causation and to probe historical and cultural circumstances that resonate with parallel questions about the nature of society Charting an interdisciplinary research agenda that broadens the frameworks in which biological individuality is discussed this book makes clear that in the realm of the individual there is not and should not be a direct path from biological paradigms based on model organisms through to philosophical generalization and historical reification

Genetics and Evolution of Infectious Diseases Michel Tibayrenc, 2017-01-12 Genetics and Evolution of Infectious Diseases Second Edition discusses the constantly evolving field of infectious diseases and their continued impact on the health of populations especially in resource limited areas of the world Students in public health biomedical professionals clinicians public health practitioners and decisions makers will find valuable information in this book that is relevant to the control and prevention of neglected and emerging worldwide diseases that are a major cause of global morbidity disability and mortality Although substantial gains have been made in public health interventions for the treatment prevention and control of infectious diseases during the last century in recent decades the world has witnessed a worldwide human immunodeficiency virus HIV pandemic increasing antimicrobial resistance and the emergence of many new bacterial fungal parasitic and viral pathogens The economic social and political burden of infectious diseases is most evident in developing countries which must confront the dual burden of death and disability due to infectious and chronic illnesses Takes an integrated approach to infectious diseases Includes contributions from leading authorities Provides the latest developments in the field of infectious disease

**The Evolution of Multicellularity** Matthew D. Herron, Peter L. Conlin, William C. Ratcliff, 2022-06-07 Among the most important innovations in the history of life is the transition from single celled organisms to more complex multicellular organisms Multicellularity has evolved repeatedly across the tree of life

resulting in the evolution of new kinds of organisms that collectively constitute a significant portion of Earth's biodiversity and have transformed the biosphere. This volume examines the origins and subsequent evolution of multicellularity, reviewing the types of multicellular groups that exist, their evolutionary relationships, the processes that led to their evolution, and the conceptual frameworks in which their evolution is understood. This important volume is intended to serve as a jumping off point stimulating further research by summarizing the topics that students and researchers of the evolution of

multicellularity should be familiar with and highlighting future research directions for the field. **Ecology** Michael Begon, Colin R. Townsend, 2020-11-11. A definitive guide to the depth and breadth of the ecological sciences, revised and updated. The revised and updated fifth edition of *Ecology: From Individuals to Ecosystems* now in full colour offers students and practitioners a review of the ecological sciences. The previous editions of this book earned the authors the prestigious Exceptional Life-time Achievement Award of the British Ecological Society; the aim for the fifth edition is not only to maintain standards but indeed to enhance its coverage of Ecology. In the first edition 34 years ago it seemed acceptable for ecologists to hold a comfortable objective, not to say aloof position from which the ecological communities around us were simply material for which we sought a scientific understanding. Now we must accept the immediacy of the many environmental problems that threaten us and the responsibility of ecologists to play their full part in addressing these problems. This fifth edition addresses this challenge with several chapters devoted entirely to applied topics and examples of how ecological principles have been applied to problems facing us highlighted throughout the remaining nineteen chapters. Nonetheless the authors remain wedded to the belief that environmental action can only ever be as sound as the ecological principles on which it is based. Hence while trying harder than ever to help improve preparedness for addressing the environmental problems of the years ahead, the book remains in its essence an exposition of the science of ecology. This new edition incorporates the results from more than a thousand recent studies into a fully up-to-date text. Written for students of ecology, researchers and practitioners, the fifth edition of *Ecology: From Individuals to Ecosystems* is an essential reference to all aspects of ecology and addresses environmental problems of the future. **Encyclopedia of Ecology and Environmental Management**, 2009-07-15. The *Encyclopedia of Ecology and Environmental Management* addresses the core definitions and issues in pure and applied ecology. It is neither a short entry dictionary nor a long entry encyclopedia but lies somewhere in between. The mixture of short entry definitions and long entry essays gives a comprehensive and up-to-date alphabetical guide to over 3000 topics and allows any subject to be accessed to varying levels of detail while the longer entries provide general reviews of subjects; the short definitions provide specific details on more specialised areas. An important feature of the Encyclopedia which sets it apart from other similar works is the comprehensive cross-referencing. The most comprehensive and up-to-date reference work in pure and applied ecology. Definitions cover the entire spectrum of pure and applied ecological research. Distinguished editorial board: Dr Peter Moore, Professor John Grace, Professor Bryan Shorrocks.

Professor Steven Stearns Professor Don Falk International team of distinguished authors over 200 contributors from 20 countries 3000 headwords defined Over 250 long entries review major topics Heavily illustrated with a section of colour plates Complete one volume guide to pure and applied ecology Presents cutting edge definitions in emerging fields as well as grounding in well established areas of ecology Big Questions in Ecology and Evolution Thomas N. Sherratt, David M. Wilkinson, 2009-02-20 Why do we age Why cooperate Why do so many species engage in sex Why do the tropics have so many species When did humans start to affect world climate This book provides an introduction to a range of fundamental questions that have taxed evolutionary biologists and ecologists for decades Some of the phenomena discussed are on first reflection simply puzzling to understand from an evolutionary perspective whilst others have direct implications for the future of the planet All of the questions posed have at least a partial solution all have seen exciting breakthroughs in recent years yet many of the explanations continue to be hotly debated Big Questions in Ecology and Evolution is a curiosity driven book written in an accessible way so as to appeal to a broad audience It is very deliberately not a formal text book but something designed to transmit the excitement and breadth of the field by discussing a number of major questions in ecology and evolution and how they have been answered This is a book aimed at informing and inspiring anybody with an interest in ecology and evolution It reveals to the reader the immense scope of the field its fundamental importance and the exciting breakthroughs that have been made in recent years *Life on Earth* Niles Eldredge, 2002-12-17 An examination of nature's extraordinary biological diversity and the human activities that threaten it *Life on Earth* An Encyclopedia of Biodiversity Ecology and Evolution tackles the critical issue for humanity in the 21st century our ever more menacing impact on the environment This two volume illustrated set edited by American Museum of Natural History curator Niles Eldredge begins with biodiversity the complex planetary web of life that has emerged through three billion years of evolution How does it work And why is its continued health critical to the planet and to ourselves More than 50 top scholars examine every form of life from amoebae to elephants from plankton to whales But *Life on Earth* is more than a catalog of species An A Z survey explores the myriad ways humanity is diminishing that biodiversity from industrialization to natural habitat destruction from overpopulation in the developing world to an unsustainable consumer lifestyle in the West *Life on Earth* is the essential reference work for anyone curious about our planet's extraordinary diversity of life and the unprecedented threats it faces

*The Invertebrates* R. S. K. Barnes, Peter P. Calow, P. J. W. Olive, D. W. Golding, J. I. Spicer, 2009-04-13 The majority of undergraduate texts in invertebrate zoology of which there are many fall into one of two categories They either offer a systematic treatment of groups of animals phylum by phylum or adopt a functional approach to the various anatomical and physiological systems of the better known species *The Invertebrates* is the first and only textbook to integrate both approaches and thus meet the modern teaching needs of the subject This is the only invertebrate textbook to integrate systematics and functional approaches The molecular systematics sections have been completely updated for the new edition

Strong evolutionary theme which reflects the importance of molecular techniques throughout Distills the essential characteristics of each invertebrate group and lists diagnostic features to allow comparisons between phyla New phyla have been added for the new edition Stresses comparisons in physiology reproduction and development Improved layout and illustration quality Second edition has sold 14000 copies Nature of the first edition Students will like this book It deserves to succeed

**Advances in Ecological Research**, 1993-06-10 The six articles in this issue of *Advances in Ecological Research* cover a wide spectrum of ecology to ecology to munities the discussion of vegetation change on a longer time scale and the significance of conservation especially in the industrialized world S J Hall and D G Raff provide something of interest to all ecologists Several common themes are presented in this volume including the dynamics of communities with such examples as Glacier Bat and Mount St Helens **SPECIAL FEATURES** Lively selection of review on topical subjects

**Reef Evolution** Rachel Wood, 1999 Reefs are an extraordinary natural phenomenon Visible from outer space coral reefs are the largest biologically constructed features known in close proximity their spectacular beauty and abundance of life is dazzling Reefs are estimated to occupy only a small percentage of the oceans but their importance to the marine environment is many faceted and global Reefs create harbours and allow the development of shallow basins with associated mangrove or seagrass communities they protect coastlines from erosion reefs are involved in the regulation of atmospheric carbon which in turn contributes to climate control ancient reefs can provide extensive oil and gas reservoirs From a biological standpoint however the great significance of reefs lies in their ability to generate and maintain a substantial proportion of tropical marine biodiversity This text documents those biological innovations which have moulded the evolution of reef ecosystems and given rise to the highly complex communities found today The appearance of clonality the acquisition of photosymbiosis and the radiation of predator groups are all discussed in depth Throughout the book Rachel Wood uses data from the fossil record to document the evolutionary development of reef ecosystems This interdisciplinary approach has the aim of providing an analytical text which will be of value not only to advanced undergraduates and postgraduate courses but also to researchers in ancient reef ecology Rachel Wood is Royal Society University Research Fellow and Fellow Gonville and Caius College Cambridge

**Darwinian Dynamics** Richard E. Michod, 2021-01-12 The concept of fitness has long been a topic of intense debate among evolutionary biologists and their critics with its definition and explanatory power coming under attack In this book Richard Michod offers a fresh dynamical interpretation of evolution and fitness concepts He argues that evolution has no enduring products what matters is the process of genetic change Whereas many biologists have focused on competition and aggression as determining factors in survival Michod by concentrating on the emergence of individuality at new and more complex levels finds that cooperation plays even a greater role Michod first considers the principles behind the hierarchically nested levels of organization that constitute life genes chromosomes genomes cells multicellular organisms and societies By examining the evolutionary transitions from the molecular level up to the whole organism the author

explains how cooperation and conflict in a multilevel setting leads to new levels of fitness He builds a model of fitness drawing on recent developments in ecology and multilevel selection theory and on new explanations of the origin of life Michod concludes with a discussion of the philosophical implications of his theory of fitness a theory that addresses the most fundamental and unique concept in all of biology Mechanisms of Life History Evolution Thomas Flatt, Andreas Heyland, 2011-05-12 This interdisciplinary volume unites evolutionary and molecular biologists from various fields life history theory molecular biology developmental biology aging phenotypic plasticity social behaviour and endocrinology who use studies of molecular mechanisms to solve fundamental questions in life history evolution in a variety of organisms **The Behavioural Ecology of Parasites** E. E. Lewis, J. F. Campbell, M. V. K. Sukhdeo, 2002-07-17 Parasites have evolved numerous complex and fascinating ways of interacting with their hosts The subject attracts the interest of numerous biologists from the perspective of ecology and behavioural biology as well as from those concerned with more applied aspects of parasitology However until now there has been no recent book to synthesize this field This book written by leading authorities from the USA Europe Australia and New Zealand provides the most comprehensive coverage of this important topic on the market *The Theory of Evolution* Samuel M. Scheiner, David P. Mindell, 2020-01-07 Darwin s nineteenth century writings laid the foundations for modern studies of evolution and theoretical developments in the mid twentieth century fostered the Modern Synthesis Since that time a great deal of new biological knowledge has been generated including details of the genetic code lateral gene transfer and developmental constraints Our improved understanding of these and many other phenomena have been working their way into evolutionary theory changing it and improving its correspondence with evolution in nature And while the study of evolution is thriving both as a basic science to understand the world and in its applications in agriculture medicine and public health the broad scope of evolution operating across genes whole organisms clades and ecosystems presents a significant challenge for researchers seeking to integrate abundant new data and content into a general theory of evolution This book gives us that framework and synthesis for the twenty first century The Theory of Evolution presents a series of chapters by experts seeking this integration by addressing the current state of affairs across numerous fields within evolutionary biology ranging from biogeography to multilevel selection speciation and macroevolutionary theory By presenting current syntheses of evolution s theoretical foundations and their growth in light of new datasets and analyses this collection will enhance future research and understanding Parasitism Albert O. Bush, 2001-03-22 Explains parasite biology as a branch of ecology essential reading for zoology and ecology students **Population Dynamics in Ecological Space and Time** Olin E. Rhodes, Ronald K. Chesser, Michael H. Smith, 1996-08 As profound threats to ecosystems increase worldwide ecologists must move beyond studying single communities at a single point in time All of the dynamic interconnected spatial and temporal processes that determine the distribution and abundance of species must be understood in order to develop new conservation and management strategies



This volume is the first to integrate mathematical and biological approaches to these crucial topics. The editors include not only a wide variety of theoretical approaches but also a broad range of experimental and field studies with chapters written by renowned experts in community ecology, ecological modeling, population genetics, and conservation biology. In addition to providing new insights into well-known topics such as migration, the authors also introduce some less familiar subjects including bacterial population genetics and ecotoxicology. For anyone interested in the study, management, and conservation of populations, this book will prove to be a valuable resource.

Phylum Bryozoa Thomas Schwaha, 2020-11-23

With an account of over 6 000 recent and 15 000 fossil species, phylum Bryozoa represents a quite large and important phylum of colonial filter feeders. This volume of the series Handbook of Zoology contains new findings on phylogeny, morphology, and evolution that have significantly improved our knowledge and understanding of this phylum. It is a comprehensive book that will be a standard for many specialists but also newcomers to the field of bryozoology.

## Reviewing **Functional Biology Of Clonal Animals**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Functional Biology Of Clonal Animals**," an enthralling opus penned by a highly acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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