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# Molds, molecules, and metazoa growing points in evolutionary biology

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# Molds Molecules And Metazoa Growing Points In Evolutionary Biology

**Rui F. Oliveira, Michael Taborsky, H.  
Jane Brockmann**



## **Molds Molecules And Metazoa Growing Points In Evolutionary Biology:**

**Molds, Molecules, and Metazoa** Peter R. Grant, Henry S. Horn, 2014-07-14 Through an integration of systematics genetics and related disciplines the Modern Synthesis of Evolutionary Biology came into being over fifty years ago Knowledge of evolution has since been transformed by several revolutions the way we interpret the fossil record has been radically affected by theories of continental drift and asteroid impacts the way we classify organisms has been influenced by the development of cladistics Perhaps the most dramatic revolution has been the explosion in molecular biology of information about the genome Aiming to capture the excitement of modern evolutionary biology six prominent scientists here explore important issues and problems in their areas of specialization and identify the most promising directions of future research The scope of this volume ranges from macroevolutionary patterns in the Precambrian to molecular evolution of the genome Major themes include the origin and maintenance of variation and the causes of evolutionary change Chapters on paleontology ecology behavior development and cell and molecular biology are contributed by Jim Valentine Graham Bell Mary Jane West Eberhard Leo Buss Marc Kirschner and Marty Kreitman The book contains an introductory chapter by John Bonner whose seminal work is honored here Originally published in 1992 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

*Unifying Biology* Vassiliki Betty Smocovitis, 2020-11-10 *Unifying Biology* offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science the evolutionary synthesis of the 1930s and 1940s For more than seventy years after Darwin proposed his theory of evolution it was hotly debated by biological scientists It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists Using methods gleaned from a variety of disciplines Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics they were according to the author also working together to establish an autonomous community of evolutionists Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge In developing her argument she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science Drawing from some of the most exciting recent approaches in science studies and cultural studies she argues that science is a culture complete with language rituals texts and practices *Unifying Biology* offers not only its own new synthesis of the history of modern evolution but also a new way of doing history

**Phenotypic Plasticity & Evolution** David W. Pfennig, 2021-05-31 Phenotypic plasticity the ability of an individual organism to alter its features in direct response to a change in its environment is ubiquitous Understanding how and why this phenomenon exists is crucial because it unites all levels of biological inquiry This book brings together researchers who approach plasticity from diverse perspectives to explore new ideas and recent findings about the causes and consequences of plasticity Contributors also discuss such controversial topics as how plasticity shapes ecological and evolutionary processes whether specific plastic responses can be passed to offspring and whether plasticity has left an important imprint on the history of life Importantly each chapter highlights key questions for future research Drawing on numerous studies of plasticity in natural populations of plants and animals this book aims to foster greater appreciation for this important but frequently misunderstood phenomenon Key Features Written in an accessible style with numerous illustrations including many in color Reviews the history of the study of plasticity including Darwin's views Most chapters conclude with recommendations for future research

**Developmental Plasticity and Evolution** Mary Jane West-Eberhard, 2003-03-13 The first comprehensive synthesis on development and evolution it applies to all aspects of development at all levels of organization and in all organisms taking advantage of modern findings on behavior genetics endocrinology molecular biology evolutionary theory and phylogenetics to show the connections between developmental mechanisms and evolutionary change This book solves key problems that have impeded a definitive synthesis in the past It uses new concepts and specific examples to show how to relate environmentally sensitive development to the genetic theory of adaptive evolution and to explain major patterns of change In this book development includes not only embryology and the ontogeny of morphology sometimes portrayed inadequately as governed by regulatory genes but also behavioral development and physiological adaptation where plasticity is mediated by genetically complex mechanisms like hormones and learning The book shows how the universal qualities of phenotypes modular organization and plasticity facilitate both integration and change Here you will learn why it is wrong to describe organisms as genetically programmed why environmental induction is likely to be more important in evolution than random mutation and why it is crucial to consider both selection and developmental mechanism in explanations of adaptive evolution This book satisfies the need for a truly general book on development plasticity and evolution that applies to living organisms in all of their life stages and environments Using an immense compendium of examples on many kinds of organisms from viruses and bacteria to higher plants and animals it shows how the phenotype is reorganized during evolution to produce novelties and how alternative phenotypes occupy a pivotal role as a phase of evolution that fosters diversification and speeds change The arguments of this book call for a new view of the major themes of evolutionary biology as shown in chapters on gradualism homology environmental induction speciation radiation macroevolution punctuation and the maintenance of sex No other treatment of development and evolution since Darwin's offers such a comprehensive and critical discussion of the relevant issues Developmental Plasticity and Evolution is designed

for biologists interested in the development and evolution of behavior life history patterns ecology physiology morphology and speciation It will also appeal to evolutionary paleontologists anthropologists psychologists and teachers of general biology

**Evolution's Wedge** David Pfennig, Karin Pfennig, 2012-10-25 Evolutionary biology has long sought to explain how new traits and new species arise Darwin maintained that competition is key to understanding this biodiversity and held that selection acting to minimize competition causes competitors to become increasingly different thereby promoting new traits and new species Despite Darwin's emphasis competition's role in diversification remains controversial and largely underappreciated In their synthetic and provocative book evolutionary ecologists David and Karin Pfennig explore competition's role in generating and maintaining biodiversity The authors discuss how selection can lessen resource competition or costly reproductive interactions by promoting trait evolution through a process known as character displacement They further describe character displacement's underlying genetic and developmental mechanisms The authors then consider character displacement's myriad downstream effects ranging from shaping ecological communities to promoting new traits and new species and even fueling large scale evolutionary trends Drawing on numerous studies from natural populations and written for a broad audience *Evolution's Wedge* seeks to inspire future research into character displacement's many implications for ecology and evolution

*The Social Biology of Ropalidia Marginata* Raghavendra Gadagkar, 2001-11-30 In this book the biologist Raghavendra Gadagkar focuses on the single species he has worked on throughout his career His years of study have led him to believe that ecological physiological and demographic factors can be more important than genetic relatedness in the selection for or against social traits

*Behavioral Mechanisms in Evolutionary Ecology* Leslie Real, 1994-11-30 The first book length exploration of behavioral mechanisms in evolutionary ecology this ambitious volume illuminates long standing questions about cause and effect relations between an animal's behavior and its environment By focusing on biological mechanisms the sum of an animal's cognitive neural developmental and hormonal processes leading researchers demonstrate how the integrated study of animal physiology cognitive processes and social interaction can yield an enriched understanding of behavior With studies of species ranging from insects to primates the contributors examine how various animals identify and use environmental resources and deal with ecological constraints as well as the roles of learning communication and cognitive aspects of social interaction in behavioral evolution Taken together the chapters demonstrate how the study of internal mechanistic foundations of behavior in relation to their ecological and evolutionary contexts and outcomes provides valuable insight into such behaviors as predation mating and dispersal *Behavioral Mechanisms in Evolutionary Ecology* shows how a mechanistic approach unites various levels of biological organization to provide a broader understanding of the biological bases of behavioral evolution

*Death, Hope and Sex* James S. Chisholm, 1999-09-02 Fascinating and controversial examination of how evolutionary theory sheds light on human nature using reproductive issues as a focus

*Alternative Reproductive Tactics* Rui F. Oliveira, Michael Taborsky, H.

Jane Brockmann, 2008-03-13 The study of alternative reproductive tactics the behavioural strategies used by individuals to increase their reproductive success is an evolutionary puzzle and one of great interest to researchers For instance why do some males guard both nest and eggs while others sneak into nests while pairs are spawning and fertilise those eggs The field offers a special opportunity to study the evolution and functional causes of phenotypic variation which is a general problem in the field of evolutionary biology By integrating both mechanistic psychological and evolutionary behavioural ecology perspectives and by covering a great diversity of species *Alternative Reproductive Tactics* addresses this integrated topic of longstanding interest bringing together a multitude of otherwise scattered information in an accessible form that is ideal for graduate students and researchers

Conceptual Change in Biology Alan C. Love, 2014-11-07 This volume explores questions about conceptual change from both scientific and philosophical viewpoints by analyzing the recent history of evolutionary developmental biology It features revised papers that originated from the workshop *Conceptual Change in Biological Science Evolutionary Developmental Biology 1981-2011* held at the Max Planck Institute for the History of Science in Berlin in July 2010 The Preface has been written by Ron Amundson In these papers philosophers and biologists compare and contrast key concepts in evolutionary developmental biology and their development since the original seminal Doherty conference on evolution and development held in Berlin in 1981 Many of the original scientific participants from the 1981 conference are also contributors to this new volume and in conjunction with other expert biologists and philosophers specializing on these topics provide an authoritative comprehensive view on the subject Taken together the papers supply novel perspectives on how and why the conceptual landscape has shifted and stabilized in particular ways yielding insights into the dynamic epistemic changes that have occurred over the past three decades This volume will appeal to philosophers of biology studying conceptual change evolutionary developmental biologists focused on comprehending the genesis of their field and evaluating its future directions and historians of biology examining this period when the intersection of evolution and development rose again to prominence in biological science

Darwin's Finches Kathleen Donohue, 2011-06-15 Two species come to mind when one thinks of the Galapagos Islands the giant tortoises and Darwin's fabled finches While not as immediately captivating as the tortoises these little brown songbirds and their beaks have become one of the most familiar and charismatic research systems in biology providing generations of natural historians and scientists a lens through which to view the evolutionary process and its role in morphological differentiation In *Darwin's Finches* Kathleen Donohue excerpts and collects the most illuminating and scientifically significant writings on the finches of the Galapagos to teach the fundamental principles of evolutionary theory and to provide a historical record of scientific debate Beginning with fragments of Darwin's Galapagos field notes and subsequent correspondence and moving through the writings of such famed field biologists as David Lack and Peter and Rosemary Grant the collection demonstrates how scientific processes have changed over time how different branches of biology relate to one another and how they all relate to evolution As Donohue notes

practicing science today is like entering a conversation that has been in progress for a long long time Her book provides the history of that conversation and an invitation to join in Students of both evolutionary biology and history of science will appreciate this compilation of historical and contemporary readings and will especially value Donohue s enlightening commentary

**Gender and Society** Colin Blakemore, Susan D. Iversen, 2000 In this eclectic collection of essays distinguished scholars from different and specialized disciplines discuss aspects of sex gender and gender and society In his contribution to this series of essays on Gender and Society Peter Goodfellow states sex the biological separation into male and female is controlled by DNA and is determined by DNA Gender the arbitrary social division between masculine and feminine is a social construct that involves interaction between an individual and society The definition of gender offered by Goodfellow is cogently developed by Germaine Greer in her essay on women as victims of rape Some of the newest and most controversial aspects of modern criminology Susan Watkins suggests that the understanding of gender has influenced the analysis of population change the efforts by activists to ensure reductions in fertility internationally and the acceptance of birth control in local communities in Kenya This analysis is complimented by Michele Le Doeuff in a discussion of the complex interplay between reduced fertility increased literacy and the function of work in the everyday life of every woman whatever her social class or level of education The question of how the sexes differ in their perception and processing of information about their external world is tackled by Lucia Jacobs within a biological and evolutionary context She proposes that sexual selection should be given credit for the rapid evolution of our unique abilities and complex culture concluding that it is the female that is the smaller the ecological sex best adapted to survive in the ecological niche of the species and it is the male who carries the heavier burden or handicap of sexual selection his fitness dependent on arbitrary traits that reduce his competitive ability as a human being although they are all too necessary for his competitive ability as a man The contribution of the sociobiologist Sarah Hrdy focussed on sexual selection drawing on a wide range of research on the physiological and behavioural responses of subhuman primates but appropriately drawing her inspiration from Spencer s own writings on physical beauty and its consequences for posterity The chapters in this book were originally delivered as The Herbert Spencer Lectures in 1995 at Oxford University

**Biocommunication in Soil Microorganisms** Günther Witzany, 2010-11-01 Communication is defined as an interaction between at least two living agents which share a repertoire of signs These are combined according to syntactic semantic and context dependent pragmatic rules in order to coordinate behavior This volume deals with the important roles of soil bacteria in parasitic and symbiotic interactions with viruses plants animals and fungi Starting with a general overview of the key levels of communication between bacteria further reviews examine the various aspects of intracellular as well as intercellular biocommunication between soil microorganisms This includes the various levels of biocommunication between phages and bacteria between soil algae and bacteria and between bacteria fungi and plants in the rhizosphere the role of plasmids and transposons horizontal gene transfer quorum sensing

and quorum quenching bacterial host cohabitation phage mediated genetic exchange and soil viral ecology      **Plant Breeding Reviews, Volume 38** Jules Janick,2014-11-12 Plant Breeding Reviews presents state of the art reviews on plant genetics and the breeding of all types of crops by both traditional means and molecular methods Many of the crops widely grown today stem from a very narrow genetic base understanding and preserving crop genetic resources is vital to the security of food systems worldwide The emphasis of the series is on methodology a fundamental understanding of crop genetics and applications to major crops It is a serial title that appears in the form of one or two volumes per year

Current Catalog National Library of Medicine (U.S.),1993 First multi year cumulation covers six years 1965 70

*Long-Term Studies of Vertebrate Communities* Martin L. Cody,Jeffrey A. Smallwood,1996-10-24 This unique book synthesizes the ongoing long term community ecology studies of fish amphibians reptiles birds and mammals The studies have been conducted from deserts to rainforests as well as in terrestrial freshwater and marine habitats and provide valuable insight that can be obtained only through persistent diligent and year after year investigation Long Term Studies of Vertebrate Communities is ideal for faculty researchers graduate students and undergraduates in vertebrate biology ecology and evolutionary biology including ecology natural history and systematics Provides unique perspectives of community stability and variation Details the influence of natural and other perturbations on community structure Includes synopses by well known authors Presents results from a broad range of vertebrate taxa Studies were conducted at different latitudes and in different habitats      *Game Theory and Animal Behavior* Lee Alan Dugatkin,Hudson Kern Reeve,2000-03-23 Game theory has revolutionized the study of animal behavior The fundamental principle of evolutionary game theory that the strategy adopted by one individual depends on the strategies exhibited by others has proven a powerful tool in uncovering the forces shaping otherwise mysterious behaviors In this volume the first since 1982 devoted to evolutionary game theory leading researchers describe applications of the theory to diverse types of behavior providing an overview of recent discoveries and a synthesis of current research The volume begins with a clear introduction to game theory and its explanatory scope This is followed by a series of chapters on the use of game theory to understand a range of behaviors social foraging cooperation animal contests communication reproductive skew and nepotism within groups sibling rivalry alternative life histories habitat selection trophic level interactions learning and human social behavior In addition the volume includes a discussion of the relations among game theory optimality and quantitative genetics and an assessment of the overall utility of game theory to the study of social behavior Presented in a manner accessible to anyone interested in animal behavior but not necessarily trained in the mathematics of game theory the book is intended for a wide audience of undergraduates graduate students and professional biologists pursuing the evolutionary analysis of animal behavior      **Exploitation of Environmental Heterogeneity by Plants** ,2012-12-02 There is a new emerging interest in the effects of gaps and patches on succession and biodiversity This innovative volume is a synthesis of studies of plant responses to temporal and spatial heterogeneity the



exploitation of resources from pulses and patches by plants and their competition with neighbors in the face of this variability Aboveground the book focuses upon the nature of canopy patchiness consequences of this heterogeneity for the light environment and the mechanisms by which plants respond to and exploit this patchiness Belowground the text explores the heterogeneity of soil environments and how root systems obtain nutrients and water in the context of this temporal and spatial variability As a new reference in an evolving and growing field this text is sure to be a valuable tool for researchers and advanced students in plant physiology ecology agronomy and forestry alike

**The Evolution of Social Wasps** James H. Hunt, 2007-03-27 Social behavior occurs in some of the smallest animals as well as some the largest and the transition from solitary life to sociality is an unsolved evolutionary mystery In *The Evolution of Social Wasps* James H Hunt examines social behavior in a single lineage of insects wasps of the family Vespidae He presents empirical knowledge of social wasps from two approaches one that focuses on phylogeny and life history and one that focuses on individual ontogeny colony development and population dynamics He also provides an extensive summary of the existing literature while demonstrating how it can be clouded by theory Hunt's fresh approach to the conflicting literature on sociality highlights how oft repeated models can become fixed in the thinking of the scientific community Instead Hunt presents a mechanistic scenario for the evolution of sociality in wasps that changes our perspective on kin selection the paradigm that has dominated thinking about social evolution since the 1970s This innovative new model integrates life history nutrition fitness and ecology in which social insect biologists will find a rich storehouse of ideas and information and behavioral ecologists will find a bracing challenge to long accepted models Engagingly written bold and provocative *The Evolution of Social Wasps* marks a milestone in our understanding of one of life's major evolutionary transitions the origin of social behavior *Ecology*, 1998

The book delves into Molds Molecules And Metazoa Growing Points In Evolutionary Biology. Molds Molecules And Metazoa Growing Points In Evolutionary Biology is a vital topic that must be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Molds Molecules And Metazoa Growing Points In Evolutionary Biology, encompassing both the fundamentals and more intricate discussions.

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  6. In chapter 5, the author will draw a conclusion about Molds Molecules And Metazoa Growing Points In Evolutionary Biology. The final chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Molds Molecules And Metazoa Growing Points In Evolutionary Biology.

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