

Phenotypic Plasticity




*Functional and Conceptual
Approaches*

EDITED BY

Thomas J. DeWitt
Samuel M. Scheiner

Phenotypic Plasticity Functional And Conceptual Approaches

**Vijay Rani Rajpal, S. Rama Rao, S.N.
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Phenotypic Plasticity Functional And Conceptual Approaches:

Phenotypic Plasticity Thomas J. DeWitt, Samuel M. Scheiner, 2004 Genetic evolution adaptation environment genotype

A Companion to the Philosophy of Biology Sahotra Sarkar, Anya Plutynski, 2010-11-08 A COMPANION TO THE PHILOSOPHY OF BIOLOGY Sarkar is to be congratulated for assembling this talented team of philosophers who are themselves to be congratulated for writing these interesting essays on so many fascinating areas in philosophy of biology This book will be a wonderful resource for future work Elliot Sober University of Wisconsin Madison Many of the discussions here start with a definition of terms and a historical context of the subject before delving into the deeper philosophical issues making it a useful reference for students of biology as well as philosophy Northeastern Naturalist The topics that are addressed are done so well This book will appeal to the advanced student and knowledgeable amateur and may prove useful catalyst for discussion among research teams or those engaged in cross disciplinary studies Reference Reviews A Companion to the Philosophy of Biology offers concise overviews of philosophical issues raised by all areas of biology Addressing both traditional and emerging areas of philosophical interest the volume focuses on the philosophical implications of evolutionary theory as well as key topics such as molecular biology immunology and ecology Comprising essays by top scholars in the field this volume is an authoritative guide for professional philosophers historians sociologists and biologists as well as an accessible reference work for students seeking to learn about this rapidly changing field *Analysis of Cardiac Development* Rafael Beyar, Amir Landesberg, 2010-03-22 This volume the result of three days of interactive sessions among world leaders in the cardiac sciences summarizes the most up to date information about development and cardiogenesis signaling in cell based therapy as well as developmental aspects of the formation of the embryonic heart including the effect of mechanical load on differentiation Other topics covered include signaling and repair strategies cell and gene therapy for the treatment of postmyocardial infarction signaling vascularization methods in engineering embryonic cardiac tissue and molecular methods to improve survival of human embryonic stem cell derived cardiomyocytes developmental and evolutionary cardiology novel strategies for treatment of atrial fibrillation and channel molecular physiology in remodeling and hypertrophy multiscale modeling for metabolism and flows including force development mechanics of cardiac contraction and ATP supply and demand aspects aging interactions and interference aspects include fibroblast myocyte capillary communications nonuniformities in contraction calcium channels as oxygen sensors and epigenetics of heart failure and macroscale phenomena and clinical aspects including various clinical aspects of modern cardiology such as navigation methods for cardiac interventions and control of cardiac function by changes in energetic demand NOTE Annals volumes are available for sale as individual books or as a journal For information on institutional journal subscriptions please visit www.blackwellpublishing.com nyas ACADEMY MEMBERS Please contact the New York Academy of Sciences directly to place your order www.nyas.org Members of the New York Academy of Science receive full text access to the Annals online and

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Biological Invasions in Marine Ecosystems Gil Rilov, Jeffrey A. Crooks, 2008-11-19 Biological invasions are considered to be one of the greatest threats to the integrity of most ecosystems on earth This volume explores the current state of marine bioinvasions which have been growing at an exponential rate over recent decades Focusing on the ecological aspects of biological invasions it elucidates the different stages of an invasion process starting with uptake and transport through inoculation establishment and finally integration into new ecosystems Basic ecological concepts all in the context of bioinvasions are covered such as propagule pressure species interactions phenotypic plasticity and the importance of biodiversity The authors approach bioinvasions as hazards to the integrity of natural communities but also as a tool for better understanding fundamental ecological processes Important aspects of managing marine bioinvasions are also discussed as are many informative case studies from around the world

Animal Movement Across Scales Lars-Anders Hansson, Susanne Akesson, 2014-08-21 Movement dispersal and migration on land in the air and in water are pervading features of animal life They are performed by a huge variety of organisms from the smallest protozoans to the largest whales and can extend over widely different distance scales from the microscopic to global Integrating the study of movement dispersal and migration is crucial for a detailed understanding of the spatial scale of adaptation and for analysing the consequences of landscape and climate change as well as of invasive species This novel book adopts a broad cross taxonomic approach to animal movement across both temporal and spatial scales addressing how and why animals move and in what ways they differ in their locomotion and navigation performance Written by an integrated team of leading researchers the book synthesizes our current knowledge of the genetics of movement including gene flow and local adaptations whilst providing a future perspective on how patterns of animal migration may change over time together with their potential evolutionary consequences Novel technologies for tracking the movement of organisms across scales are also discussed ranging from satellite devices for tracking global migrations to nanotechnology that can follow animals only a millimetre in size *Animal Movement Across Scales* is particularly suitable for graduate level students taking courses in spatial animal ecology animal migration and movement ecology as well as providing a source of fresh ideas and opinions for those already active within the field It will also be of interest and use to a broader audience of professional biologists interested in animal movements and migrations

Functional Avian Endocrinology Alistair Dawson, P. J. Sharp, 2005 Provides a review of the research into all aspects relating to hormones in birds wild birds how they respond and adapt to their natural environment and domestic poultry aimed at improving commercial production and breeding This book illustrates the way this technology is being used to open up new opportunities for avian endocrinologists

Comparative Ecology of Microorganisms and Macroorganisms John H. Andrews, 2017-06-27 This second edition textbook offers an expanded conceptual synthesis of microbial ecology with plant and animal ecology Drawing on examples from the biology of microorganisms and macroorganisms this textbook

provides a much needed interdisciplinary approach to ecology The focus is the individual organism and comparisons are made along six axes genetic variation nutritional mode size growth life cycle and influence of the environment When it was published in 1991 the first edition of Comparative Ecology of Microorganisms and Macroorganisms was unique in its attempt to clearly compare fundamental ecology across the gamut of size The explosion of molecular biology and the application of its techniques to microbiology and organismal biology have particularly demonstrated the need for interdisciplinary understanding This updated and expanded edition remains unique It treats the same topics at greater depth and includes an exhaustive compilation of both the most recent relevant literature in microbial ecology and plant animal ecology as well as the early research papers that shaped the concepts and theories discussed Among the completely updated topics in the book are phylogenetic systematics search algorithms and optimal foraging theory comparative metabolism the origins of life and evolution of multicellularity and the evolution of life cycles From Reviews of the First Edition John Andrews has succeeded admirably in building a bridge that is accessible to all ecologists Ecology I recommend this book to all ecologists It is a thoughtful attempt to integrate ideas from and develop common themes for two fields of ecology that should not have become fragmented American Scientist Such a synthesis is long past due and it is shameful that ecologists both big and little have been so parochial The Quarterly Review of Biology

Evolutionary Causation Tobias Uller, Kevin N. Lala, 2019-09-03 A comprehensive treatment of the concept of causation in evolutionary biology that makes clear its central role in both historical and contemporary debates Most scientific explanations are causal This is certainly the case in evolutionary biology which seeks to explain the diversity of life and the adaptive fit between organisms and their surroundings The nature of causation in evolutionary biology however is contentious How causation is understood shapes the structure of evolutionary theory and historical and contemporary debates in evolutionary biology have revolved around the nature of causation Despite its centrality and differing views on the subject the major conceptual issues regarding the nature of causation in evolutionary biology are rarely addressed This volume fills the gap bringing together biologists and philosophers to offer a comprehensive interdisciplinary treatment of evolutionary causation Contributors first address biological motivations for rethinking evolutionary causation considering the ways in which development extra genetic inheritance and niche construction challenge notions of cause and process in evolution and describing how alternative representations of evolutionary causation can shed light on a range of evolutionary problems Contributors then analyze evolutionary causation from a philosophical perspective considering such topics as causal entanglement the commingling of organism and environment and the relationship between causation and information Contributors John A Baker Lynn Chiu David I Dayan Ren e A Duckworth Marcus W Feldman Susan A Foster Melissa A Graham Heikki Helanter Kevin N Lala Armin P Moczek John Odling Smee Jun Otsuka Massimo Pigliucci Arnaud Pocheville Arlin Stoltzfus Karola Stoltz Sonia E Sultan Christoph Thies Tobias Uller Denis M Walsh Richard A Watson

Development and Environment Warren Burggren, Benjamin Dubansky, 2018-09-24 Rather

than a loosely connected list of facts topics this book addresses virtually every field that involves the use of developing animals in environmental science In doing so it will help define the scientific collective within these fields to both those readers who are outside of a particular field students and professionals alike and those who work within said field where multiple iterations of the same job description exist Both the content and choice of authors fully support this goal as the editors and contributing authors represent contemporary thought and experimentation in their respective fields ranging from developmental physiology through environmental toxicology to medicine As such this work will appeal to a broad audience including any scientist or trainee interested in the nexus of environment development and physiology

Integrative Organismal Biology Lynn B. Martin, Cameron K. Ghalambor, H. Arthur Woods, 2015-02-16 Integrative Organismal Biology synthesizes current understandings of the causes and consequences of individual variation at the physiological behavioral and organismal levels Emphasizing key topics such as phenotypic plasticity and flexibility and summarizing emerging areas such as ecological immunology oxidative stress biology and others Integrative Organismal Biology pulls together information from diverse disciplines to provide a synthetic view of the role of the individual in evolution Beginning with the role of the individual in evolutionary and ecological processes the book covers theory and mechanism from both classic and modern perspectives Chapters explore concepts such as phenotypic plasticity genetic and epigenetic variation physiological and phenotypic variation homeostasis and gene and physiological regulatory networks A concluding section interweaves these concepts through a series of case studies of life processes such as aging reproduction and immune defense Written and edited by leaders in the field Integrative Organismal Biology will be an important advanced textbook for students and researchers across a variety of subdisciplines of integrative biology

Program Peace Jared Edward Reser, 2022-03-05 Did you know the most dominant apes and monkeys are usually the kindest They share the most food groom others more often break up fights are slow to anger and breathe in a relaxed manner Those on the bottom of the social hierarchy are the opposite They are stingy combative irritable anxious depressed and they breathe shallowly It is not easy for a submissive primate to become dominant They have mindsets mannerisms and muscle tension that keep them from escaping their subordinate social strategy and the chronic stress it produces All of this generalizes to people If you want to be free of negative emotion you need to rehabilitate physical trauma in your breath eyes face voice heart gut spine and brain Program Peace will coach you to do precisely this by first retraining your breathing pattern and then walking you through dozens of innovative and effective self care exercises After creating new mindsets and mannerisms and learning to reinvigorate muscles you never knew you had you will find yourself more confident healthier kinder and reprogrammed for peace

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

Evolutionary Ecology of Marine Invertebrate Larvae Tyler J. Carrier, Adam M. Reitzel, Andreas Heyland, 2018 Marine invertebrate larvae are an integral part of pelagic diversity and have stimulated the curiosity of researchers for centuries This book integrates the latest research in order to provide a modern synthesis of this interdisciplinary field

Phenotypic Plasticity of Insects Douglas Whitman, T. N. Ananthakrishnan, 2009 This book explores the profound importance of phenotypic plasticity as a central organizing theme for understanding biology Chapters take a broad integrative approach to explain how physical and biological environmental stimuli temperature photoperiod nutrition population density predator presence etc influence insect biochemical physiological learning and developmental processes altering phenotype which then influences performance ecology life history survival fitness and subsequent evolution Topics include endocrinology development body size allometry polyphenism reproduction reproductive and life history tradeoffs alternative mating and life history strategies density dependent prophylaxis physiological adaptation acclimation homeostasis heat shock proteins learning adaptive anti predator behavior and evolution of phenotypic plasticity [Handbook of](#)

[Evolutionary Thinking in the Sciences](#) Thomas Heams, Philippe Huneman, Guillaume Lecointre, Marc Silberstein, 2014-11-23 The Darwinian theory of evolution is itself evolving and this book presents the details of the core of modern Darwinism and its latest developmental directions The authors present current scientific work addressing theoretical problems and challenges in four sections beginning with the concepts of evolution theory its processes of variation heredity selection adaptation and function and its patterns of character species descent and life The second part of this book scrutinizes Darwinism in the philosophy of science and its usefulness in understanding ecosystems whilst the third section deals with its application in disciplines beyond the biological sciences including evolutionary psychology and evolutionary economics Darwinian morality and phylolinguistics The final section addresses anti Darwinism the creationist view and issues around

teaching evolution in secondary schools The reader learns how current experimental biology is opening important perspectives on the sources of variation and thus of the very power of natural selection This work examines numerous examples of the extension of the principle of natural selection and provides the opportunity to critically reflect on a rich theory on the methodological rigour that presides in its extensions and exportations and on the necessity to measure its advantages and also its limits Scholars interested in modern Darwinism and scientific research its concepts research programs and controversies will find this book an excellent read and those considering how Darwinism might evolve how it can apply to the human sciences and other disciplines beyond its origins will find it particularly valuable Originally produced in French *Les Mondes Darwiniens* the scope and usefulness of the book have led to the production of this English text to reach a wider audience This book is a milestone in the impressive penetration by Francophone scholars into the world of Darwinian science its historiography and philosophy over the last two decades Alex Rosenberg R Taylor Cole Professor of Philosophy Duke University Until now this useful and comprehensive handbook has only been available to francophones Thanks to this invaluable new translation this collection of insightful and original essays can reach the global audience it deserves Tim Lewens University of Cambridge

Organism and Environment Sonia E. Sultan, 2015-09-10 Over the past decade advances in both molecular developmental biology and evolutionary ecology have made possible a new understanding of organisms as dynamic systems interacting with their environments This innovative book synthesizes a wealth of recent research findings to examine how environments influence phenotypic expression in individual organisms ecological development or *eco devo* and how organisms in turn alter their environments niche construction A key argument explored throughout the book is that ecological interactions as well as natural selection are shaped by these dual organism environment effects This synthesis is particularly timely as biologists seek a unified contemporary framework in which to investigate the developmental outcomes ecological success and evolutionary prospects of organisms in rapidly changing environments *Organism and Environment* is an advanced text suitable for graduate level students taking seminar courses in ecology evolution and developmental biology as well as academics and researchers in these fields

Molecular Breeding and Nutritional Aspects of Buckwheat Meiliang Zhou, Ivan Kreft, Sun-Hee Woo, Nikhil Chrungoo, Gunilla Wieslander, 2016-06-02 *Molecular Breeding and Nutritional Aspects of Buckwheat* describes the general characterization and genetic diversity of buckwheat family Polygonaceae genus *Fagopyrum* around the globe especially in Russia China India and Eastern Europe the arid and cool regions where it is most frequently consumed and nutritional information on a variety of buckwheat uses including tea groats flour and noodles With detailed information on buckwheat regeneration genetic transformation gene function analysis and the metabolic engineering of bioactive compounds the book guides readers through a variety of buckwheat varietal adaptations providing foundation information on which additional research should be conducted It is divided into four parts including genetic resource and phylogenetic relationship food nutrition growth and

cultivation and molecular breeding with each section providing insights into the most current developments Addresses all aspects of buckwheat research including genetic resources biological nutrition genetic transformation and molecular breeding Presents global characterization on the genetic resource of *Fagopyrum* giving researchers insights that will help them breed new cultivars Explores the bioactivity of buckwheat Includes detailed information on the environmental factors that affect the growth and production of buckwheat Annual Plant Reviews, The Evolution of Plant Form Barbara A. Ambrose, Michael D. Purugganan, 2012-11-21 The Evolution of Plant Form is an exceptional new volume in Wiley Blackwell's highly successful and well established Annual Plant Reviews Written by recognised and respected researchers this book delivers a comprehensive guide to the diverse range of scientific perspectives in land plant evolution from morphological evolution to the studies of the mechanisms of evolutionary change and the tools with which they can be studied This title distinguishes itself from others in plant evolution through its synthesis of these ideas which then provides a framework for future studies and exciting new developments in this field The first chapter explores the origins of the major morphological innovations in land plants and the following chapters provide an exciting in depth analysis of the morphological evolution of land plant groups including bryophytes lycophytes ferns gymnosperms and angiosperms The second half of the book focuses on evolutionary studies in land plants including genomics adaptation development and phenotypic plasticity The final chapter provides a summary and perspective for future studies in the evolution of plant form The Evolution of Plant Form provides essential information for plant scientists and evolutionary biologists All libraries and research establishments where biological and agricultural sciences are studied and taught will find this important work a vital addition to their shelves

Gene Pool Diversity and Crop Improvement Vijay Rani Rajpal, S. Rama Rao, S.N. Raina, 2016-02-02 The world population is estimated to reach to more than 10 billion by the year 2050 These projections pose a challenging situation for the agricultural scientists to increase crops productivity to meet the growing food demands The unavailability and or inaccessibility to appropriate gene pools with desired traits required to carry out genetic improvement of various crop species make this task formidable for the plant breeders Incidentally most of the desired genes reside in the wild genetic relatives of the crop species Therefore exploration and characterization of wild genetic resources of important crop species is vital for the efficient utilization of these gene pools for sustainable genetic improvements to assure food security Further understanding the myriad complexities of genic and genomic interactions among species more particularly of wild relatives of crop species and or phylogenetically distant germplasm can provide the necessary inputs to increase the effectiveness of genetic improvement through traditional and or genetic engineering methods This book provides comprehensive and latest insights on the evolutionary genesis of diversity access and its utilization in the evolution of various crop species A comprehensive account of various crops origin exploitation of the primary secondary and tertiary gene pools through breeding biosystematical cytogenetical and molecular phylogenetical relationships and genetic enhancement through

biotechnological interventions among others have been provided as the necessary underpinnings to consolidate information on the effective and sustainable utilization of the related genetic resources The book stresses upon the importance of wild germplasm exploration characterization and exploitation in the assimilation of important crop species The book is especially intended for students and scientists working on the genetic improvement of crop species Plant Breeders Geneticists Taxonomists Molecular Biologists and Plant Biotechnologists working on crop species are going to find this book very useful

The Riddle of Organismal Agency Alejandro Fábregas-Tejeda, Jan Baedke, Guido I. Prieto, Gregory Radick, 2024-08-01

The Riddle of Organismal Agency brings together historians philosophers and scientists for an interdisciplinary re assessment of one of the long standing problems in the scientific understanding of life Marshalling insights from diverse sciences including physiology comparative psychology developmental biology and evolutionary biology the book provides an up to date survey of approaches to non human organisms as agents capable of performing activities serving their own goals such as surviving or reproducing and whose doings in the world are thus to be explained teleologically From an Integrated History and Philosophy of Science perspective the book contributes to a better conceptual and theoretical understanding of organismal agency advancing some suggestions on how to study it empirically and how to frame it in relation to wider scientific and philosophical traditions It also provides new historical entry points for examining the deployment trajectories and challenges of agential views of organisms in the history of biology and philosophy This book will be of interest to philosophers of biology historians of science biologists interested in analysing the active roles of organisms in development ecological interactions and evolution philosophers and practitioners of the cognitive sciences and philosophers and historians of philosophy working on purposiveness and teleology

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