



MODULARITY
IN DEVELOPMENT
AND EVOLUTION

Edited by Gerhard Schlosser • Günter P. Wagner

Modularity In Development And Evolution

Roger Sansom, Robert N. Brandon



Modularity In Development And Evolution:

Modularity in Development and Evolution Gerhard Schlosser, Gunter P. Wagner, 2004-07 Modularity in Development and Evolution offers the first sustained exploration of modules from developmental and evolutionary perspectives Contributors discuss what modularity is how it can be identified and modeled how it originated and evolved and its biological significance Covering modules at levels ranging from genes to colonies the book focuses on their roles not just in structures but also in processes such as gene regulation Among many exciting findings the contributors demonstrate how modules can highlight key constraints on evolutionary processes A timely synthesis of a crucial topic Modularity in Development and Evolution shows the invaluable insights modules can give into both developmental complexities and their evolutionary origins

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Modularity Werner Callebaut, Diego Rasskin-Gutman, 2005 Modularity the attempt to understand systems as integrations of partially independent and interacting units is today a dominant theme in the life sciences cognitive science and computer science The concept goes back at least implicitly to the Scientific or Copernican Revolution and can be found behind later theories of phrenology physiology and genetics moreover art engineering and mathematics rely on modular design principles This collection broadens the scientific discussion of modularity by bringing together experts from a variety of disciplines including artificial life cognitive science economics evolutionary computation developmental and evolutionary biology linguistics mathematics morphology paleontology physics theoretical chemistry philosophy and the arts The contributors debate and compare the uses of modularity discussing the different disciplinary contexts of modular thinking in general including hierarchical organization near decomposability quasi independence and recursion or of more specialized concepts including character complex gene family encapsulation and mosaic evolution what modules are why and how they develop and evolve and the implication for the research agenda in the disciplines involved and how to bring about useful cross disciplinary knowledge transfer on the topic The book includes a foreword by the late Herbert A Simon addressing the role of near decomposability in understanding complex systems Contributors Lee Altenberg Lauren W Ancel Meyers Carl Anderson Robert B Brandon Angela D Buscalioni Raffaele Calabretta Werner Callebaut Anne De Joan Rafael Delgado Buscalioni Gunther J Eble Walter Fontana Fernand Gobet Alicia de la Iglesia Slavik V Jablan Luigi Marengo Daniel W McShea Jason

Mezey D Kimbrough Oller Domenico Parisi Corrado Pasquali Diego Rasskin Gutman Gerhard Schlosser Herbert A Simon Roger D K Thomas Marco Valente Boris M Velichkovsky Gunter P Wagner Rasmus G Winter Vienna Series in Theoretical Biology The Epistemology of Development, Evolution, and Genetics Richard Burian, 2005 These essays examine the developments in three fundamental biological disciplines embryology evolutionary biology and genetics These disciplines were in conflict for much of the 20th century and the essays in this collection examine key methodological problems within these disciplines and the difficulties faced in overcoming the conflicts between them Burian skillfully weaves together historical appreciation of the settings within which scientists work substantial knowledge of the biological problems at stake and the methodological and philosophical issues faced in integrating biological knowledge drawn from disparate sources

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 **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

How Can Development and Plasticity Contribute to Understanding Evolution of the Human Brain? Roberto Lent, Fernanda Tovar-Moll, 2016-07-19 Humans usually attribute themselves the prerogative of being the pinnacle of evolution They have large brains with many billion neurons and glial cells trillions of synapses and besides all a plastic hardware that may change either subtly or strongly in response to the external environment and internal mental commands With this hypercomplex apparatus they are capable of very sophisticated inward computations and outward behaviors that include self recognition metacognition different forms of language expression and reception prediction of future events

planning and performing long streams of motor acts subtle emotional feelings and many other surprising almost unbelievable properties The main challenge for research is how do we explain this gigantic achievement of evolution Is it a direct consequence of having acquired a brain larger than our primate ancestors with huge numbers of computational units Would it be determined by a particular way these units came to relate to each other building up logic circuits of powerful capacities What along development has made the difference for the construction of such a complex brain machine How much of this complexity is innate how much is sculpted by influence of the external world by social interaction with our human fellows and by the history of our own mental trajectory along life Many specific questions can be asked albeit not necessarily answered so far to this purpose 1 which genomic characteristics make us unique among primates 2 which of developmental events during and beyond embryogenesis define our brain prolonged neurogenesis permanent circuit re formation dynamic synaptogenesis regressive sculpting of the hardware all of them 3 is there anything special about plasticity of the human brain that allows us to build the exquisite individual variability characteristic of our brains Neuroscience is in need of a synthesis Perhaps associating concepts derived from developmental neurobiology with evolutionary morphology and physiology together with those that photograph the human brain in action under influence of the external world would turn on a light at the end of the tunnel and we would be able to understand what humans do have that is special if anything to explain our success in the Earth

Evolutionary Developmental Biology, 2021-02-16 Evolutionary Developmental Biology Volume 141 focuses on recent research in evolutionary developmental biology the science studying how changes in development cause the variations that natural selection operate on Several new hypotheses and models are presented in this volume and these concern how homology may be properly delineated how neural crest and placode cells emerged and how they formed the skull and jaw and how plasticity and developmental symbiosis enable normal development to be regulated by environmental factors New models for homology New hypotheses for the generation of chordates New models for the roles of plasticity and symbionts in normal development

Towards a Theory of Development Alessandro Minelli, Thomas Pradeu, 2014-05-01 Is it possible to explain and predict the development of living things What is development Articulate answers to these seemingly innocuous questions are far from straightforward To date no systematic targeted effort has been made to construct a unifying theory of development This novel work offers a unique exploration of the foundations of ontogeny by asking how the development of living things should be understood It explores the key concepts of developmental biology asks whether general principles of development can be discovered and examines the role of models and theories The two editors one a biologist with long interest in the theoretical aspects of his discipline the other a philosopher of science who has mainly worked on biological systems have assembled a team of leading contributors who are representative of the scientific and philosophical community within which a diversity of thoughts are growing and out of which a theory of development may eventually emerge They analyse a wealth of approaches to concepts models and theories of development

such as gene regulatory networks accounts based on systems biology and on physics of soft matter the different articulations of evolution and development symbiont induced development as well as the widely discussed concepts of positional information and morphogenetic field the idea of a programme of development and its critiques and the long standing opposition between preformationist and epigenetic conceptions of development Towards a Theory of Development is primarily aimed at students and researchers in the fields of evo devo developmental biology theoretical biology systems biology biophysics and the philosophy of science

Modularity in Motor Control: From Muscle Synergies to Cognitive Action Representation Andrea d'Avella, Martin Giese, Yuri P Ivanenko, Thomas Schack, Tamar Flash, 2016-04-21 Mastering a rich repertoire of motor behaviors as humans and other animals do is a surprising and still poorly understood outcome of evolution development and learning Many degrees of freedom non linear dynamics and sensory delays provide formidable challenges for controlling even simple actions Modularity as a functional element both structural and computational of a control architecture might be the key organizational principle that the central nervous system employs for achieving versatility and adaptability in motor control Recent investigations of muscle synergies motor primitives compositionality basic action concepts and related work in machine learning have contributed to advance at different levels our understanding of the modular architecture underlying rich motor behaviors However the existence and nature of the modules in the control architecture is far from settled For instance regularity and low dimensionality in the motor output are often taken as an indication of modularity but could they simply be a byproduct of optimization and task constraints Moreover what are the relationships between modules at different levels such as muscle synergies kinematic invariants and basic action concepts One important reason for the new interest in understanding modularity in motor control from different viewpoints is the impressive development in cognitive robotics In comparison to animals and humans the motor skills of today s best robots are limited and inflexible However robot technology is maturing to the point at which it can start approximating a reasonable spectrum of isolated perceptual cognitive and motor capabilities These advances allow researchers to explore how these motor sensory and cognitive functions might be integrated into meaningful architectures and to test their functional limits Such systems provide a new test bed to explore different concepts of modularity and to address the interaction between motor and cognitive processes experimentally Thus the goal of this Research Topic is to review compare and debate theoretical and experimental investigations of the modular organization of the motor control system at different levels By bringing together researchers seeking to understand the building blocks for coordinating many muscles for planning endpoint and joint trajectories and for representing motor and behavioral actions in memory we aim at promoting new interactions between often disconnected research areas and approaches and at providing a broad perspective on the idea of modularity in motor control We welcome original research methodological theoretical review and perspective contributions from behavioral system and computational motor neuroscience research cognitive psychology and cognitive robotics

Insights in Systems Biology Research Gary An, Ioannis P. Androulakis, Eric H. Chang, Rongling Wu, Shayn

Peirce-Cottler, Edoardo Saccenti, 2025-06-10

Summary of Topic This collection represents an interdisciplinary exploration of systems biology and systems medicine integrating advanced methodologies from computational modeling deep neural networks and multiomics to improve understanding and treatment of human diseases and biological mechanisms Emphasis is placed on cutting edge technologies including deep learning for statistical inference from gene expression data and noncoding genetic variants quantitative systems pharmacology for virtual patient generation and semi mechanistic modeling applied to novel therapies such as CAR T cell interventions The articles further highlight disease modeling across various scales exemplified through multi scale simulation frameworks applied to complex conditions such as COVID 19 long term sequelae rheumatoid arthritis epilepsy and tuberculosis Additionally the importance of modularity in biological networks developments in functional annotation of microbial transporters and new approaches towards bioengineered bacterial consortia through molecular communication are discussed This collection informs us of the ongoing efforts to harness computational power and biological insights to advance personalized medicine improve therapeutic strategies and deepen our understanding of complex biological phenomena Systems Biology has undergone significant transformations due to the pioneering efforts of researchers worldwide The discipline now spans several subfields such as Neuroscience Genetics and Genomics Medicine among others each advancing the field in unique ways through innovative technologies and insightful discoveries This evolution is celebrated in a curated collection by Frontiers in Systems Biology which aims to highlight the state of the art developments and set the stage for future inquiries and applications in the field This collection actively showcases the overlap of technology with theoretical advancements creating a broad framework from which new methodologies and strategies are born This Research Topic aims to provide an overview of the most recent progress in Systems Biology It seeks to outline the impacts that the integration of disparate biological research areas can have in solving complex biological problems and advancing human health Without losing sight of the past achievements the goal is to explore the potential of future advancements addressing the challenges that remain at the forefront of this vibrant field The scope of this Research Topic is broadly defined yet focused on areas where significant innovative strides have been made We welcome contributions that emphasize Integrative approaches in Systems Neuroscience Contemporary breakthroughs in Genetics and Genomics The use of Multiscale Mechanistic Modelling to represent biological interfaces Bridging gaps between experimental and computational biology in Translational Systems Biology Enhancing methodologies in Data and Model Integration This collection welcomes contributions from Editorial Board Members or those referred by a board member reflecting on current developments and plotting pathways for upcoming research endeavors Authors are encouraged to engage critically with their fields identifying current challenges and proposing novel solutions to advance the understanding of complex systems within biology

Multicellularity Karl J. Niklas, Stuart A. Newman, 2016-02-12 Scholars consider the

origins and consequences of the evolution of multicellularity addressing a range of organisms experimental protocols theoretical concepts and philosophical issues The evolution of multicellularity raises questions regarding genomic and developmental commonalities and discordances selective advantages and disadvantages physical determinants of development and the origins of morphological novelties It also represents a change in the definition of individuality because a new organism emerges from interactions among single cells This volume considers these and other questions with contributions that explore the origins and consequences of the evolution of multicellularity addressing a range of topics organisms and experimental protocols Each section focuses on selected topics or particular lineages that present a significant insight or challenge The contributors consider the fossil record of the paleontological circumstances in which animal multicellularity evolved cooptation recurrent patterns modularity and plausible pathways for multicellular evolution in plants theoretical approaches to the amoebozoia and fungi cellular slime molds having long provided a robust model system for exploring the evolution of multicellularity plants and animals genomic toolkits of metazoan multicellularity and philosophical aspects of the meaning of individuality in light of multicellular evolution Contributors Maja Adamska Argyris Arnellos Juan A Arias Eugenio Azpeitia Mariana Benitez Adriano Bonforti John Tyler Bonner Peter L Conlin A Keith Dunker Salva Duran Nebreda Ana E Escalante Valeria Hernandez Hernandez Kunihiro Kaneko Andrew H Knoll Stephan G Knig Daniel J G Lahr Ottoline Leyser Alan C Love Raul Montez Emilio Mora van Cauwelaert Alvaro Moreno Vidyanand Nanjundiah Aurora M Nedelcu Stuart A Newman Karl J Niklas William C Ratcliff Iaki Ruiz Trillo Ricard Sol

Evolution and Development, 2009-04-08 The marriage of evolutionary biology with developmental biology has resulted in the formation of a new field evolutionary developmental biology or evo devo This volume reviews current research findings and thought in the broad field of evo devo looking at the developmental genetic mechanisms that cause variation and how alterations of these mechanisms can generate novel structural changes in a variety of plant and animal life Reviews current research findings and thought on evolutionary developmental biology providing researchers an overview and synthesis of the latest research findings and contemporary thought in the area Includes chapters discussing the evolutionary development of a wide variety of organisms and allows researchers to compare and contrast how genes are expressed in a variety of organisms from fly to frog to humans Emphasizes the role of regulatory DNA in evolutionary development to give researchers perspective on how the regions of the genome that control gene expression and the protein factors that bind them are ultimately responsible for the diversity of life that has evolved

The Innate Mind Peter Carruthers, Stephen Laurence, Stephen Stich, 2007-01-04 This is the second volume of a projected three volume set on the subject of innateness The volume is highly interdisciplinary and addresses such question as To what extent are mature cognitive capacities a reflection of particular cultures and to what extent are they a product of innate elements How do innate elements interact with culture to achieve mature cognitive capacities How do minds generate and shape cultures How are cultures processed

by minds The volume will be of great importance to anyone interested in the interplay between culture and the innate mind

The Oxford Handbook of Philosophy of Biology Michael Ruse, 2008-07-10 This handbook covers the history of philosophy of biology then moves on to evolutionary theory It continues with discussions of molecular biology and ecology and covers biology and ethics as well as biology and religion Strickberger's Evolution Brian Keith Hall, Benedikt Hallgrímsson, Monroe W. Strickberger, 2014 The fifth Edition of Strickberger's Evolution is updated with the latest data and updates from the field The authors took care to carefully modify the chapter order in an effort to provide a more clear and student friendly presentation of course material The original scope and theme of this popular text remains as it continues to present an overview of prevailing evidence and theories about evolution by discussing how the world and its organisms arose and changed over time New boxed features concentrating on modern and exciting research in the field are included throughout the text New and Key Features of the Fifth Edition New Full color design and art program Maintains the student friendly engaging writing style for which it is known A reorganized chapter order provides a more clear and accessible presentation of course material Chapters on the evolution of biodiversity are now found on the text's website Access to the companion website is included with every new copy of the text New boxed features highlight new and exciting research in the field **The Evolutionary Biology of the Human Pelvis** Cara M. Wall-Scheffler, Helen K. Kurki, Benjamin M.

Auerbach, 2020-01-16 Synthesizes and re-examines the evolution of the human pelvis which sits at the interface between locomotion and childbirth **Integrating Evolution and Development** Roger Sansom, Robert N. Brandon, 2007 The

chapters in Integrating Evolution and Development not only make a case for the importance of developmental synthesis they also make significant contributions to this fast growing field of study Neo-Aristotelian Perspectives on Contemporary Science William M.R. Simpson, Robert C. Koons, Nicholas J. Teh, 2017-10-19 The last two decades have seen two significant trends emerging within the philosophy of science the rapid development and focus on the philosophy of the specialised sciences and a resurgence of Aristotelian metaphysics much of which is concerned with the possibility of emergence as well as the ontological status and indispensability of dispositions and powers in science Despite these recent trends few Aristotelian metaphysicians have engaged directly with the philosophy of the specialised sciences Additionally the relationship between fundamental Aristotelian concepts such as hylomorphism substance and faculties and contemporary science has yet to receive a critical and systematic treatment Neo Aristotelian Perspectives on Contemporary Science aims to fill this gap in the literature by bringing together essays on the relationship between Aristotelianism and science that cut across interdisciplinary boundaries The chapters in this volume are divided into two main sections covering the philosophy of physics and the philosophy of the life sciences Featuring original contributions from distinguished and early career scholars this book will be of interest to specialists in analytical metaphysics and the philosophy of science *Developmental Approaches to Human Evolution* Julia C. Boughner, Campbell Rolian, 2016-01-22 Developmental Approaches to Human

Evolution encapsulates the current 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

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Modularity In Development And Evolution Introduction

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