lñaki Ruiz-Trillo Aurora M. Nedelcu *Editors*

Evolutionary Transitions to Multicellular Life

Principles and mechanisms



Matthew D. Herron, Peter L. Conlin, William C. Ratcliff

Evolutionary Transitions to Multicellular Life Iñaki Ruiz-Trillo, Aurora M. Nedelcu, 2015-03-27 The book integrates our understanding of the factors and processes underlying the evolution of multicellularity by providing several complementary perspectives both theoretical and experimental and using examples from various lineages in which multicellularity evolved Recent years marked an increased interest in understanding how and why these transitions occurred and data from various fields are providing new insights into the forces driving the several independent transitions to multicellular life as well as into the genetic and molecular basis for the evolution of this phenotype. The ultimate goal of this book is to facilitate the identification of general and unifying principles and mechanisms 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 Chapter 13 of this book is freely available as a downloadable Open Access PDF at http www taylorfrancis com under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4 0 license The Units of Life Ellen Clarke, 2025-05-15 Where are the edges of a tree What makes arms different from daughters What have corals got in common with Necker cubes Biological individuality has become a dizzying topic since researchers began at the turn of the millennium to realize that we can t go on taking organisms for granted as basic particles of the living world Ellen Clarke takes us on a disorienting romp through the natural world and argues that our way of conceptualizing living things of understanding life as carved up into separate chunks is best understood as an idealization Vivid examples animate some fairly arcane philosophical topics concerning identity over time natural kinds and the fundamental furniture of reality as well as serious biological issues concerning natural selection the emergence of compositional hierarchies and the evolution of cooperation Readers will come away with newfound respect for humankind s ingenuity in engineering concepts that make sense of the complex and ever changing wonders of life on earth The Zoological Record ,1990 Zoological Record Introduction to Marine Genomics J. Mark Cock, Kristin Tessmar-Raible, Catherine Boyen, Frédérique ,1990 Viard, 2010-04-27 Marine biology has always played an important role in biological research being at the origin of many key advances To a certain extent the influence of marine biology on the biological sciences was overshadowed over a period of

several years by the remarkable advances that were made using powerful model organisms from terrestrial environments This situation is now changing again however due primarily to spectacular developments in genomic methodologies that have significantly accelerated research in a broad spectrum of marine biology disciplines ranging from biodiversity to developmental biology to biotechnology The data generated by marine genomics projects have had an impact on questions as diverse as understanding planetary geochemical cycles the impact of climate change on marine fauna and flora the functioning of marine ecosystems the discovery of new organisms and novel biomolecules and investigation of the evolution of animal developmental complexity This book represents the first attempt to document how genomic technologies are revolutionising these diverse domains of marine biology Each chapter of this book looks at how these technologies are being employed in a specific domain of marine research and provides a summary of the major results obtained to date The book as a whole provides an overview of marine genomics as a discipline and represents an ideal starting point for exploring this rapidly developing domain Multicellularity Karl J. Niklas, Stuart A. Newman, 2022-06-07 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 amoebozoa 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 Ben tez Adriano Bonforti John Tyler Bonner Peter L Conlin A Keith Dunker Salva Duran Nebreda Ana E Escalante Valeria Hern ndez Hern ndez Kunihiko Kaneko Andrew H Knoll Stephan G K nig Daniel J G Lahr Ottoline Leyser Alan C Love Raul Monta ez Emilio Mora van Cauwelaert Alvaro Moreno Vidyanand Nanjundiah Aurora M Nedelcu Stuart A Newman Karl J Niklas William C Ratcliff I aki Ruiz Trillo Ricard Sol Marine Genomics Cinzia Verde, Daniela Giordano, 2022-06-21 This detailed volume provides an overview of recent advances in the application of genomic technologies in several domains of marine biology raising awareness of various DNA and RNA based technologies Genomic methods are essential in identifying previously undetected taxonomic e g DNA barcoding genetic e g sequencing and

functional e g gene expression analysis of metabolites diversity as shown in the chapters of this book with sections focusing on next generation sequencing NGS technologies bioinformatics in marine genomics research marine biotechnology as well as a variety of methods successfully applied in fish Written for the highly successful Methods in Molecular Biology series chapters include introductions to their respective topics lists of the necessary materials and reagents step by step readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls Authoritative and practical Marine Genomics Methods and Protocols highlights the utility of numerous lab protocols and their potential to provide deeper insight into physiological and ecological mechanisms in marine life Advances in Marine Genomics ,2010 Tyler Bonner, 2009-09-11 The enormous recent success of molecular developmental biology has yielded a vast amount of new information on the details of development So much so that we risk losing sight of the underlying principles that apply to all development To cut through this thicket John Tyler Bonner ponders a moment in evolution when development was at its most basic the moment when signaling between cells began Although multicellularity arose numerous times most of those events happened many millions of years ago Many of the details of development that we see today even in simple organisms accrued over a long evolutionary timeline and the initial events are obscured The relatively uncomplicated and easy to grow cellular slime molds offer a unique opportunity to analyze development at a primitive stage and perhaps gain insight into how early multicellular development might have started Through slime molds Bonner seeks a picture of the first elements of communication between cells He asks what we have learned by looking at their developmental biology including recent advances in our molecular understanding of the process He then asks what is the most elementary way that polarity and pattern formation can be achieved To find the answer he uses models including mathematical ones to generate insights into how cell to cell cooperation might have originated Students and scholars in the blossoming field of the evolution of development as well as evolutionary biologists generally will be interested in what Bonner has to say about the origins of multicellular development and thus of the astounding biological complexity we now observe and how best to study it

Molecular Evolution and Population Genetics for Marine Biologists YURI. KARTAVTSEV,2020-12-18 Research in modern experimental and theoretical population genetics has been strengthened by advances in molecular techniques for the analysis of genetic variability The evolutionary relationships of organisms may be investigated by comparing DNA sequences This book covers chapters on population genetics DNA polymorphism genetic homeostasis and biochemical genetics plus a chapter on phylogenetic tree construction In addition each chapter contains training materials with numerical examples

Marine Genomics Kim Berg,2024-04 Marine genomics is a vast field that encompasses various disciplines reflecting the immense diversity of marine environments and the organisms that inhabit them Given that the world s oceans cover 70% of the planet and are home to an estimated 2 2 million eukaryotic marine species this diversity comes as no surprise Marine genomics tackles a wide range of fundamental questions by employing cutting edge genomic approaches tailored to marine

species This book explores these approaches delving into topics such as evolutionary development in basal marine animals population connectivity adaptation to environmental change and the integration of genomic data with functional concepts. The book provides comprehensive coverage of these topics shedding light on the exciting discoveries enabled by genome based research in marine and freshwater organisms. It emphasizes the significance of genomic approaches within the broader framework of environmental science showcasing how genomic insights contribute to our understanding of marine ecosystems. The researchers and scholars from various disciplines such as marine biology genomics evolutionary biology environmental science and related fields will find this book valuable. It appeals to individuals seeking a comprehensive overview of the current state of marine genomics and its applications. The book is valuable to both experts in the field who wish to deepen their understanding of specific topics and newcomers who seek an introduction to the subject. Its interdisciplinary nature makes it suitable for professionals interested in the intersection of genomics ecology and marine sciences.

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