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The Hierarchical Genome and Differentiation Waves

Novel Unification of Development,
Genetics and Evolution

Volume I

Richard Gordon



World Scientific

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Hierarchical Genome And Differentiation Waves Novel Unification Of Development Genetics And Evolution

S. Barry Cooper, Andrew Hodges



Hierarchical Genome And Differentiation Waves Novel Unification Of Development Genetics And Evolution:

The Hierarchical Genome and Differentiation Waves Richard Gordon,1999 **Hierarchical Genome And Differentiation Waves, The: Novel Unification Of Development, Genetics And Evolution (In 2 Volumes)** Richard Gordon,1999-07-12 Over the past few decades numerous scientists have called for a unification of the fields of embryo development genetics and evolution Each field has glaring holes in its ability to explain the fundamental phenomena of life In this book the author shows how the phenomenon of cell differentiation considered in its temporal and spatial aspects during embryogenesis provides a starting point for a unified theory of multicellular organisms plants fungi and animals including their evolution and genetics This unification is based on the recent discovery of differentiation waves by the author and his colleagues described in the appendices and illustrated by a flip movie prepared by a medical artist To help the reader through the many fields covered a glossary is included This book will be of great value to the researcher and practicing doctors scientists alike The research students will receive an in depth tutorial on the topics covered The seasoned researcher will appreciate the applications and the gold mine of other possibilities for novel research topics **The Hierarchical**

Genome and Differentiation Waves, Vol. 1 Richard Gordon,1999 *Hierarchical Genome and Differentiation Waves* R. Gordon,1996-08-01 Embryogenesis Explained Natalie K Gordon,Richard Gordon,2016-09-15 The greatest mystery of life is how a single fertilized egg develops into a fully functioning sometimes conscious multicellular organism Embryogenesis Explained offers a new theory of how embryos build themselves and combines simple physics with the most recent biochemical and genetic breakthroughs based on the authors prediction and then discovery of differentiation waves They explain their ideas in a form accessible to the lay person and a broad spectrum of scientists and engineers The diverse subjects of development genetics and evolution and their physics are brought together to explain this major previously unanswered scientific question of our time As a follow up on The Hierarchical Genome this book is a shorter but conceptually expanded work for the reader who is interested in science It is useful as a starting point for the curious layman or the scientist or professional encountering the problem of embryogenesis without the formal biology background There is also material useful for the seasoned biologist caught up in the new rush of information about the role of mechanics in developmental biology and cellular level mechanics in medicine **Biocommunication: Sign-mediated Interactions**

Between Cells And Organisms Richard Gordon,Joseph Seckbach,2016-11-01 All coordination between cells organs and organisms depends on successful biocommunicative processes There are abundant cases of communication in the biological world both within intraspecific and between interspecific single cell and multicellular microorganisms and higher animal forms Split into two parts this book first looks at the history development and progress within the field of biocommunication The second part presents real life case studies and investigation into examples of biocommunication in the biological world Among the organisms covered are bacteria fungi plants terrestrial and marine animals including bonobos chimpanzees and

dolphins as well as a new theory of communication between parts in developing embryos cybernetic embryos Contributions from international experts in the field provide up to date research and results while in depth analysis expands on these findings to pave the way for future discoveries As the first comprehensive review of its kind it is perfect for undergraduates graduates professionals and researchers in the field of life sciences Pathways to the Origin and Evolution of Meanings in the Universe Alexei A. Sharov, George E. Mikhailovsky, 2024-03-26 Pathways to the Origin and Evolution of Meanings in the Universe The book explains why meaning is a part of the universe populated by life and how organisms generate meanings and then use them for creative transformation of the environment and themselves This book focuses on interdisciplinary research at the intersection of biology semiotics philosophy ethology information theory and the theory of evolution Such a broad approach provides a rich context for the study of organisms and other semiotic agents in their environments This methodology can be applied to robotics and artificial intelligence for developing robust adaptable learning devices In this book leading interdisciplinary scholars reveal their vision on how to integrate natural sciences with semiotics a theory of meaning making and signification Developments in biology indicate that the capacity to create and understand signs is not limited to humans or vertebrate animals but exists in all living organisms the fact that inspired the integration of biology and semiotics into biosemiotics The authors discuss the nature of semiotic agents organisms and other autonomous goal directed units meaning signs information memory evolution and consciousness Also discussed are issues including the origin of life potential meaning and its actualization top down causality in physics and biology capacity of organisms to encode their functions the strategy of organisms to combine homeostasis with direct adaptation to new life cycle phases or new environments multi level memory systems increase of freedom via enabling constraints creative modeling in evolution and learning communication in animals and humans the origin and function of language and the distribution and transfer of life in space This is the first book on biosemiotics in its global conceptual and spatial scope Biosemiotics is presented using the language of natural sciences which supports the scientific grounding of semiotic terms Finally the cosmic dimension of life and meaning making leads to a reconsideration of ethical principles and ecological mentality here on earth and in space exploration Audience Theoretical biologists ethologists astrobiologists ecologists evolutionary biologists philosophers phenomenologists semioticians biosemioticians molecular biologists linguists system scientists and engineers **Origin of Life via Archaea** Richard Gordon, 2024-10-01 This book surveys the models for the origin of life and presents a new model starting with shaped droplets and ending with life as polygonal Archaea it collects the most published micrographs of Archaea discovered only in 1977 which support this conclusion and thus provides the first visual survey of Archaea Origin of Life via Archaea s purpose is to add a new hypothesis on what are called shaped droplets as the starting point for flat polygonal Archaea supporting the Vesicles First hypothesis The book contains over 6000 distinct references and micrographs of 440 extant species of Archaea 41% of which exhibit polygonal phenotypes It surveys the intellectual battleground of the

many ideas of the origin of life on earth chemical equilibrium autocatalysis and biotic polymers This book contains 17 chapters some coauthored on a wide range of topics on the origin of life including Archaea s origin patterns and species It shows how various aspects of the origin of life may have occurred at chemical equilibrium not requiring an energy source contrary to the general assumption For the reader s value its compendium of Archaea micrographs might also serve many other interesting questions about Archaea One chapter presents a theory for the shape of flat polygonal Archaea in terms of the energetics at the surface edges and corners of the S layer Another shows how membrane peptides may have originated The book also includes a large table of most extant Archaea that is searchable in the electronic version It ends with a chapter on problems needing further research Audience This book will be used by astrobiologists origin of life biologists physicists of small systems geologists biochemists theoretical and vesicle chemists *How the Snake Lost its Legs* Lewis I. Held, Jr, 2014-01-09 How did the zebra really get its stripes and the giraffe its long neck What is the science behind camel humps leopard spots and other animal oddities Such questions have fascinated us for centuries but the expanding field of evo devo evolutionary developmental biology is now providing for the first time a wealth of insights and answers Taking inspiration from Kipling s Just So Stories this book weaves emerging insights from evo devo into a narrative that provides startling explanations for the origin and evolution of traits across the animal kingdom Held s unique and engaging style makes this narrative both enlightening and entertaining guiding students and researchers through even complex concepts and encouraging a fuller understanding of the latest developments in the field The first five chapters cover the first bilaterally symmetric animals flies butterflies snakes and cheetahs A final chapter surveys recent results about a menagerie of other animals *The Mathematical Biology of Diatoms* Janice L. Pappas, 2023-05-31 THE MATHEMATICAL BIOLOGY OF DIATOMS This book contains unique advanced applications using mathematics algorithmic techniques geometric analysis and other computational methods in diatom research Historically diatom research has centered on taxonomy and systematics While these topics are of the utmost importance other aspects of this important group of unicells have been increasingly explored in the biological sciences While mathematical applications are still rare they are starting take hold and provide an extensive avenue of new diatom research including applications in multidisciplinary fields The work contained in this volume is an eclectic mix of analytical studies on diatoms Mathematical treatment of the various biological disciplines covered in this book range from implicit but succinct studies to more elaborate detailed computational studies Topics include growth models nanostructure nanoengineering cell growth araphid diatoms valve ontogeny diatom metabolism diatom motility synchronization diatom kinematics photonics biogenic sensors photochemistry diatom light response colony growth siliceous unicells algal kinetics diatom structure diatom imaging functional morphology geometric structure biomineralization high resolution imaging non destructive imaging and 3D structure This wide ranging volume provides an introductory as well as an advanced treatment of recent interests in diatom research The mathematical research in this volume may be applicable to

studies of other unicells biomechanics biological processes physio chemical analyses or nanoscience *Biased Embryos and Evolution* Wallace Arthur, 2004-05-27 What determines the direction of evolutionary change This book provides a revolutionary answer to this question Many biologists from Darwin s day to our own have been satisfied with the answer natural selection Professor Wallace Arthur is not He takes the controversial view that biases in the ways that embryos can be altered are just as important as natural selection in determining the directions that evolution has taken including the one that led to the origin of humans This argument forms the core of the book However in addition the book summarizes other important issues relating to how embryonic and post embryonic development evolves Written in an easy conversational style this is the first book for students and the general reader that provides an account of the exciting new field of Evolutionary Developmental Biology Evo Devo to its proponents **The Once and Future Turing** S. Barry Cooper, Andrew Hodges, 2016-03-24 Original essays by world leading researchers reveal Alan Turing s lasting contributions to modern research Divine Action and Natural Selection Joseph Seckbach, Richard Gordon, 2009 The debate between divine action or faith and natural selection or science is garnering tremendous interest This book ventures well beyond the usual contrasting American Protestant and atheistic points of view and also includes the perspectives of Jews Muslims and Roman Catholics It contains arguments from the various proponents of intelligent design creationism and Darwinism and also covers the sensitive issue of how to incorporate evolution into the secondary school biology curriculum Comprising contributions from prominent award winning authors the book also contains dialogs following each chapter to provide extra stimulus to the readers and a full picture of this hot topic which delves into the fundamentals of science and religion **Morphomechanics of Development** Lev V. Beloussov, 2014-12-27 This book outlines a unified theory of embryonic development assuming morphogenesis to be a multi level process including self organizing steps while also obeying general laws It is shown how molecular mechanisms generate mechanical forces which in the long run lead to morphological changes Questions such as how stress mediated feedback acts at the cellular and supra cellular levels and how executive and regulatory mechanisms are mutually dependent are addressed while aspects of collective cell behavior and the morphogenesis of plants are also discussed The morphomechanical approach employed in the book is based on the general principles of self organization theory The Diatoms John P. Smol, Eugene F. Stoermer, 2010-09-30 This much revised and expanded edition provides a valuable and detailed summary of the many uses of diatoms in a wide range of applications in the environmental and earth sciences Particular emphasis is placed on the use of diatoms in analysing ecological problems related to climate change acidification eutrophication and other pollution issues The chapters are divided into sections for easy reference with separate sections covering indicators in different aquatic environments A final section explores diatom use in other fields of study such as forensics oil and gas exploration nanotechnology and archaeology Sixteen new chapters have been added since the first edition including introductory chapters on diatom biology and the numerical approaches used by diatomists The extensive

glossary has also been expanded and now includes over 1 000 detailed entries which will help non specialists to use the book effectively

Theology And Science: From Genesis To Astrobiology Joseph Seckbach, Richard Gordon, 2018-12-06 The age old debate between science and faith invites more players to the fore in this book Proponents of the origin of life as a natural process and natural selection as a mechanism of evolution come face to face with advocates for the intervention of a creator while other scholars believe that the gulf between science and religion should be bridged At turns disconcerting revelatory and profound readers are invited to leave their preconceived notions at the door and join these writers in this curious journey of discovery

The Organic Codes Marcello Barbieri, 2003 The genetic code appeared on Earth with the first cells The codes of cultural evolution arrived almost four billion years later These are the only codes that are recognized by modern biology In this book however Marcello Barbieri explains that there are many more organic codes in nature and their appearance not only took place throughout the history of life but marked the major steps of that history A code establishes a correspondence between two independent worlds and the codemaker is a third party between those worlds Therefore the cell can be thought of as a trinity of genotype phenotype and ribotype The ancestral ribotypes were the agents which gave rise to the first cells The book goes on to explain how organic codes and organic memories can be used to shed new light on the problems encountered in cell signalling epigenesis embryonic development and the evolution of language

Multi-Agent-Based Simulations Applied to Biological and Environmental Systems Adamatti, Diana Francisca, 2016-12-12 The discovery and development of new computational methods have expanded the capabilities and uses of simulations With agent based models the applications of computer simulations are significantly enhanced Multi Agent Based Simulations Applied to Biological and Environmental Systems is a pivotal reference source for the latest research on the implementation of autonomous agents in computer simulation paradigms Featuring extensive coverage on relevant applications such as biodiversity conservation pollution reduction and environmental risk assessment this publication is an ideal source for researchers academics engineers practitioners and professionals seeking material on various issues surrounding the use of agent based simulations

Eukaryotic Microbes Moselio Schaechter, 2012 Eukaryotic Microbes presents chapters hand selected by the editor of the Encyclopedia of Microbiology updated whenever possible by their original authors to include key developments made since their initial publication The book provides an overview of the main groups of eukaryotic microbes and presents classic and cutting edge research on content relating to fungi and protists including chapters on yeasts algal blooms lichens and intestinal protozoa This concise and affordable book is an essential reference for students and researchers in microbiology mycology immunology environmental sciences and biotechnology Written by recognized authorities in the field Includes all major groups of eukaryotic microbes including protists fungi and microalgae Covers material pertinent to a wide range of students researchers and technicians in the field

Planet Formation and Panspermia Branislav Vukotic, Joseph Seckbach, Richard Gordon, 2021-09-27 An in depth view of the panspermia hypothesis

examined against the latest knowledge of planetary formation and related processes Panspermia is the concept that life can be passively transported through space on various bodies and seed habitable planets and moons which we are beginning to learn may exist in large numbers It is an old idea but not popular with those who prefer that life on Earth started on Earth an alternative also unproven hypothesis This book updates the concept of panspermia in the light of new evidence on planet formation molecular clouds solar system motions supernovae ejection mechanisms etc Thus it is to be a book about newly understood prospects for the movement of life through space The novel approach presented in this book gives new insights into the panspermia theory and its connection with planetary formation and the evolution of galaxies This offers a good starting point for future research proposals about exolife and a better perspective for empirical scrutiny of panspermia theory Also the key to understanding life in the universe is to understand that the planetary formation process is convolved with the evolution of stellar systems in their galactic environment The book provides the synthesis of all these elements and gives the readers an up to date insight on how panspermia might fit into the big picture Audience Given the intrinsic interdisciplinary nature of the panspermia hypothesis the book will have a wide audience across various scientific disciplines covering astronomy biology physics and chemistry Apart from scientists the book will appeal to engineers who are involved in planning and realization of future space missions

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