

Hildegard Meyer-Ortmanns
Stefan Thurner (Eds.)

PRINCIPLES OF EVOLUTION

From the Planck Epoch to
Complex Multicellular Life

Principles Of Evolution From The Planck Epoch To Complex Multicellular Life

Brigitte Falkenburg, Margaret Morrison



Principles Of Evolution From The Planck Epoch To Complex Multicellular Life:

Principles of Evolution Hildegard Meyer-Ortmanns, Stefan Thurner, 2011-04-11 With contributions from a team of leading experts this volume provides a comprehensive survey of recent achievements in our scientific understanding of evolution The questions it asks concern the beginnings of the universe the origin of life and the chances of its arising at all the role of contingency and the search for universal features in the plethora of evolutionary phenomena Rather than oversimplified or premature answers the chapters provide a clear picture of how these essential problems are being tackled enabling the reader to understand current thinking and open questions The tools employed stem from a range of disciplines including mathematics physics biochemistry and cell biology Self organization as an overarching concept is demonstrated in the most diverse areas from galaxy formation in the universe to spindle and aster formation in the cell Chemical master equations population dynamics and evolutionary game theory are presented as suitable frameworks for understanding the universal mechanisms and organizational principles observed in a wide range of living units ranging from cells to societies This book will provide engaging reading and food for thought for all those seeking a deeper understanding of the science of evolution

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Navigating Complexity in Big History David J. LePoire, Leonid Grinin, Andrey Korotayev, 2025-05-08 This book explores periodization in Big History against the background of complexity growth across the Universe on our planet and in biological social and cultural systems It traces the accelerating rise in complexity throughout history and the major historical transformations involved in the evolution of life humans and civilization It draws on concepts from physics and evolutionary biology to offer potential models of the underlying mechanisms driving this acceleration along with potential clues to how it might end In the editors introduction Chapter 1 the effort to periodize is placed within the historical context along with considerations from complexity science Subsequent chapters explore various aspects of periodization and complexity by a

identifying symmetrical cosmic and biosocial trends b testing rigor and criteria for evaluating periodization c attempting to integrate different approaches through multiple perspectives d proposing different strategies for determining geometric patterns in terrestrial bio social evolution and e applying the traditional threshold model to gain insights into possible future pathways A concluding chapter identifies commonalities research gaps and possible approaches to integration as the current state of the world system rapidly evolves while also offering a deeper understanding of complexity dynamics and historical processes Each chapter includes an extensive bibliography allowing a deeper and more detailed examination of the issues covered

Chemical Complexity Alexander S. Mikhailov, Gerhard Ertl, 2017-08-10 This book provides an outline of theoretical concepts and their experimental verification in studies of self organization phenomena in chemical systems as they emerged in the mid 20th century and have evolved since Presenting essays on selected topics it was prepared by authors who have made profound contributions to the field Traditionally physical chemistry has been concerned with interactions between atoms and molecules that produce a variety of equilibrium structures or the dead order in a stationary state But biological cells exhibit a different living kind of order prompting E Schrödinger to pose his famous question What is life in 1943 Through an unprecedented theoretical and experimental development it was later revealed that biological self organization phenomena are in complete agreement with the laws of physics once they are applied to a special class of thermodynamically open systems and non equilibrium states This knowledge has in turn led to the design and synthesis of simple inorganic systems capable of self organization effects These artificial living organisms are able to operate on macroscopic to microscopic scales even down to single molecule machines In the future such research could provide a basis for a technological breakthrough comparable in its impact with the invention of lasers and semiconductors Its results can be used to control natural chemical processes and to design artificial complex chemical processes with various functionalities The book offers an extensive discussion of the history of research on complex chemical systems and its future prospects

Energy, Complexity and Wealth Maximization Robert Ayres, 2016-07-14 This book is about the mechanisms of wealth creation or what we like to think of as evolutionary progress The massive circular flow of goods and services between producers and consumers is not a perpetual motion machine it has been dependent for the past 150 years on energy inputs from a finite storage of fossil fuels In this book you will learn about the three key requirements for wealth creation and how this process acts according to physical laws and usually after some part of the natural wealth of the planet has been exploited in an episode of creative destruction Knowledge and natural capital particularly energy will interact to power the human wealth engine in the future as it has in the past Will it sputter or continue along the path of evolutionary progress that we have come to expect Can the new immaterial wealth of information and ideas which makes up the so called knowledge economy replace depleted natural wealth These questions have no simple answers but this masterful book will help you to understand the grand challenge of our time Praise for *Energy Complexity and Wealth Maximization* people who run the

modern world politicians economists and lawyers have a very poor grasp of how it really works because they do not understand the fundamentals of energy exergy and entropy those decision makers would greatly benefit from reading this book Vaclav Smil Distinguished Professor Emeritus University of Manitoba A grandiose design impressive worth reading and reflecting Prof Dr Ernst Ulrich von Weizsäcker Founder of Wuppertal Institute Co President of the Club of Rome Former Member of the German Bundestag co chair of the UN s Resource Panel The book is a must read for concerned citizens and decision makers across the globe RK Pachauri Founder and Executive Vice Chairman The Energy and Resources Institute TERI and ex chair International Panel on Climate Change IPCC

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

Intelligent Systems Design and Applications Ajith Abraham,Niketa Gandhi,Thomas Hanne,Tzung-Pei Hong,Tatiane Nogueira Rios,Weiping Ding,2022-03-26 This book highlights recent research on intelligent systems and nature inspired computing It presents 132 selected papers from the 21st International Conference on Intelligent Systems Design and Applications ISDA 2021 which was held online The ISDA is a premier conference in the field of computational intelligence and the latest installment brought together researchers engineers and practitioners whose work involves intelligent systems and their applications in industry Including contributions by authors from 34 countries the book offers a valuable reference guide for all researchers students and practitioners in the fields of Computer Science and Engineering

Why More Is Different Brigitte Falkenburg,Margaret Morrison,2015-02-26 The physics of condensed matter in contrast to quantum physics or cosmology is not traditionally associated with deep philosophical questions

However as science largely thanks to more powerful computers becomes capable of analysing and modelling ever more complex many body systems basic questions of philosophical relevance arise Questions about the emergence of structure the nature of cooperative behaviour the implications of the second law the quantum classical transition and many other issues This book is a collection of essays by leading physicists and philosophers Each investigates one or more of these issues making use of examples from modern condensed matter research Physicists and philosophers alike will find surprising and stimulating ideas in these pages

The Dual Nature of Life Gennadiy Zhegunov, 2005-07-25 Life is a diverse and ubiquitous phenomenon on Earth characterized by fundamental features distinguishing living bodies from nonliving material Yet it is also so complex that it has long defied precise definition This book from a seasoned biologist offers new insights into the nature of life by illuminating a fascinating architecture of dualities inherent in its existence and propagation Life is connected with individual living beings yet it is also a collective and inherently global phenomenon of the material world It embodies a dual existence of cycles of phenotypic life and their unseen driver an uninterrupted march of genetic information whose collective immortality is guaranteed by individual mortality Although evolution propagates and tunes species of organisms the beings produced can be regarded merely as tools for the survival and cloning of genomes written in an unchanging code What are the physical versus informational bases and driving forces of life and how do they unite as an integrated system What does time mean for individuals life on the global scale and the underlying information This accessible examination of principles and evidence shows that a network of dualities lies at the heart of biological puzzles that have engaged the human mind for millennia

LIFE - AS A MATTER OF FAT Ole G. Mouritsen, Luis A. Bagatolli, 2015-10-08 The present book gives a multi disciplinary perspective on the physics of life and the particular role played by lipids fats and the lipid bilayer component of cell membranes The emphasis is on the physical properties of lipid membranes seen as soft and molecularly structured interfaces By combining and synthesizing insights obtained from a variety of recent studies an attempt is made to clarify what membrane structure is and how it can be quantitatively described Furthermore it is shown how biological function mediated by membranes is controlled by lipid membrane structure and organization on length scales ranging from the size of the individual molecule across molecular assemblies of proteins and lipid domains in the range of nanometers to the size of whole cells Applications of lipids in nanotechnology and biomedicine are also described The first edition of the present book was published in 2005 when lipidomics was still very much an emerging science and lipids about to be recognized as being as important for life as proteins sugars and genes This significantly expanded and revised edition takes into account the tremendous amount of knowledge gained over the past decade In addition the book now includes more tutorial material on the biochemistry of lipids and the principles of lipid self assembly The book is aimed at undergraduate students and young research workers within physics chemistry biochemistry molecular biology nutrition as well as pharmaceutical and biomedical sciences From the reviews of the first edition This is a highly interesting book and a pleasure

to read It represents a new and excellent pedagogical introduction to the field of lipids and the biophysics of biological membranes I reckon that physicists and chemists as well as biologists will benefit from this approach to the field and Mouritsen shows a deep insight into the physical chemistry of lipids G ran Lindblom Chemistry and Physics of Lipids 2005 vol 135 page 105 106 The book takes the reader on an exciting journey through the lipid world and Mouritsen attracts the attention with a lively style of writing a comprehensive view of the lipid sea can be easily achieved gaining the right perspectives for envisaging future developments in the nascent field of lipidomics Carla Ferreri ChemBioChem Vol 6 8 2005

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