

Origins of Life: The Primal Self-Organization

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Henry Charles Lea

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Origins of Life: The Primal Self-Organization Richard Egel,Dirk-Henner Lankenau,Armen Y. Mulkidjanian,2011-08-31 If theoretical physicists can seriously entertain canonical standard models even for the big bang generation of the entire universe why cannot life scientists reach a consensus on how life has emerged and settled on this planet Scientists are hindered by conceptual gaps between bottom up inferences from early Earth geological conditions and top down extrapolations from modern life forms to common ancestral states This book challenges several widely held assumptions and argues for alternative approaches instead Primal syntheses literally or figuratively speaking are called for in at least five major areas 1 The first RNA like molecules may have been selected by solar light as being exceptionally photostable 2 Photosynthetically active minerals and reduced phosphorus compounds could have efficiently coupled the persistent natural energy flows to the primordial metabolism 3 Stochastic uncoded peptides may have kick started an ever tightening co evolution of proteins and nucleic acids 4 The living fossils from the primeval RNA World thrive within modern cells 5 From the inherently complex protocellular associations preceding the consolidation of integral genomes eukaryotic cell organization may have evolved more naturally than simple prokaryote like life forms If this book can motivate dedicated researchers to further explore the alternative mechanisms presented it will have served its purpose well *Origins of Life: The Primal Self-Organization* Richard Egel,Dirk Lankenau,Armen Y. Mulkidjanian,2011-09-10 If theoretical physicists can seriously entertain canonical standard models even for the big bang generation of the entire universe why cannot life scientists reach a consensus on how life has emerged and settled on this planet Scientists are hindered by conceptual gaps between bottom up inferences from early Earth geological conditions and top down extrapolations from modern life forms to common ancestral states This book challenges several widely held assumptions and argues for alternative approaches instead Primal syntheses literally or figuratively speaking are called for in at least five major areas 1 The first RNA like molecules may have been selected by solar light as being exceptionally photostable 2 Photosynthetically active minerals and reduced phosphorus compounds could have efficiently coupled the persistent natural energy flows to the primordial metabolism 3 Stochastic uncoded peptides may have kick started an ever tightening co evolution of proteins and nucleic acids 4 The living fossils from the primeval RNA World thrive within modern cells 5 From the inherently complex protocellular associations preceding the consolidation of integral genomes eukaryotic cell organization may have evolved more naturally than simple prokaryote like life forms If this book can motivate dedicated researchers to further explore the alternative mechanisms presented it will have served its purpose well **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

Conflicting Models for the Origin of Life Stoyan K. Smoukov,Joseph Seckbach,Richard Gordon,2023-03-14

Conflicting Models for the Origin of Life Conflicting Models for the Origin of Life provides a forum to compare and contrast the many hypotheses that have been put forward to explain the origin of life There is a revolution brewing in the field of Origin of Life in the process of trying to figure out how Life started many researchers believe there is an impending second creation of life not necessarily biological Up to date understanding is needed to prepare us for the technological and societal changes it would bring Schrodinger s 1944 What is life included the insight of an information carrier which inspired the discovery of the structure of DNA In Conflicting Models of the Origin of Life a selection of the world s experts are brought together to cover different aspects of the research from progress towards synthetic life artificial cells and sub cellular components to new definitions of life and the unexpected places life could have emerged Chapters also cover fundamental questions of how memory could emerge from memoryless processes and how we can tell if a molecule may have emerged from life Similarly cutting edge research discusses plausible reactions for the emergence of life both on Earth and on exoplanets Additional perspectives from geologists philosophers and even roboticists thinking about the origin of life round out this volume The text is a state of the art snapshot of the latest developments on the emergence of life to be used both in graduate classes and by citizen scientists Audience Researchers in any area of astrobiology as well as others interested in the origins of life will find a modern and current review of the field and the current debates and obstacles This book will clearly illustrate the current state of the art and engage the imagination and creativity of experts across many disciplines

Symbiogenesis Werner Schwemmler,1989

The Chemical Evolution of Phosphorus Enrique Macia-Barber,2019-11-21

Here is a fascinating reader friendly exploration of the phosphorus enigma The volume attempts to answer the questions How did phosphorus atoms which are produced inside the inner cores of a handful of huge stars become concentrated in

relatively high proportions in the organisms composing Earth's biosphere. And how did these phosphate derivatives manage to be included in such a great variety of organic molecules playing essential biochemical roles in all known life forms? Due to the interdisciplinary nature of the topic the volume is arranged in three sections. The first section introduces the fundamental concepts and notions of physics chemistry and biology necessary for the proper understanding of the topics discussed within an astronomical framework. The author then focuses on the role of phosphorus and its compounds within the context of chemical evolution in galaxies considering its relevance in most essential biochemical functions as well as its peculiar chemistry under different physicochemical conditions. The third section provides an overall perspective on the role of phosphorus and its compounds in current areas of research of solid state physics materials engineering nanotechnology or medicine.

The Origin of Life and the Evolution of Living Things Olan R. Hyndman, 1952 *The Physical Origin of Homochirality in Life* David Cline, 1996 Annotation Papers from the February 1995 conference explore questions of the necessity of homochiral structure the homochiral prebiotic medium hypothesis the potential of homochirality to be used as a signature for existing or previous living systems beyond Earth and experiments seeking to clarify the origin of homochirality. Contains sections on historical perspective homochirality and life models of physical chiral symmetry breaking and future tests For chemists chemical physicists and astrophysicists No index Annotation c by Book News Inc Portland Or **The New Jerusalem Magazine**, 1884 Includes Journal of the Massachusetts Association of the New Jerusalem Church **Origins of Life** Marie-Christine Maurel, Maryvonne Gerin, Origins of planets and life (France), 2009 **The Scientist**, 2008 **The History of the American Episcopal Church, 1587-1883: The organization and progress of the American church, 1783-1883** William Stevens Perry, 1885 **A History of the Inquisition of the Middle Ages: Special fields of inquisitorial activity** Henry Charles Lea, 1888 **The Open Court** Paul Carus, 1887 **The Open Court**, 1887 **Seven Life Lessons of Chaos** John Briggs, F David Peat, 2009-05-26 Chaos theory is the first new science in two generations to change the way nonspecialists view the world. This fascinating work brings this science to the nonscientist exploring its implications about life spirituality and the nature of the universe. Clustered around the central principle of wholeness and interconnectivity the seven lessons described here temper our scientific knowledge with mystery. With these lessons working both independently and collectively Seven Life Lessons of Chaos shows budding philosophers that science has an important message Life is chaos and that's a very exciting thing.

The Growing World, Or Progress of Civilization and the Wonders of Nature, Science, Literature and Art, Interspersed with a Useful and Entertaining Collection of Miscellany by the Best Authors of Our Day, 1885 **The Growing World**, 1880 **Aerospace Medicine and Biology**, 1982 **The Reformed Presbyterian and Covenanter**, 1875

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