

THE ORIGIN OF LIFE



Origins Of Life

J. William Schopf



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The Origin of Life John Desmond Bernal,1967 The Origin of Life John Keosian,1964 Origin of Life David W. Deamer,2020-08-01 It seems likely that scientists will someday discover how life can emerge on habitable planets like the early Earth and Mars In Origin of Life What Everyone Needs to Know David W Deamer has written a comprehensive guide to the origin of life that is organized in three sections The first section addresses questions such as Where do the atoms of life come from How old is Earth What was the Earth like before life began Where does water come from After each question is answered there is a follow up How do we know This expands the horizon of the book explaining how scientists reach conclusions and why we can trust these answers The second section describes how certain organic molecules can spontaneously assemble into populations of protocells that can undergo selection and evolve toward primitive living systems Here Deamer proposes a truly novel concept that life did not begin in the ocean but instead in fresh water hot springs on volcanic land masses resembling Hawaii today True knowledge is not just what we know but equally important is what we don't yet know In the third section Deamer lists the outstanding questions that must be addressed before we can finally answer a fundamental question of biology How can life begin

Origins of Life Geoffrey Zubay,2000-01-04 Origin of the Universe Formation of the Elements Beginnings of Chemistry Element Abundances of the Planets Geologic Hydrologic and Atmospheric Evolution of the Earth Cells Organelles and Biomolecules Metabolic Strategies and Pathway Design Biochemical Catalysis Storage Replication and Utilization of Biochemical Information General Considerations Concerning the Origin of Life on the Earth Biochemical Pathways Involving Carbohydrates Prebiotic Pathways Involving Carbohydrates Similarities Between the Biosynthesis of Nucleotides and the Prebiotic Synthesis of Nucleotides RNA Metabolism and the Prebiotic Synthesis of RNA Amino Acid Synthesis Now and Then Chemistry of Translation Early Developments in Polypeptide Synthesis Lipid Metabolism and the Prebiotic Synthesis of Lipids Properties of Membranes and Their Evolution Possible Roles of Clays and Minerals in the Origin of Life Evolution of Organisms Evol

Life's Origin J. William Schopf,2002 **The Origins of Life: Molecules and Natural Selection** Leslie E. Orgel,1973 **The Molecular Origins of Life** André Brack,1998-12-28 This 199 book reviews discoveries in astronomy paleontology biology and chemistry to help us to understand the likely origin of life on Earth

The Origin of Life on the Earth Aleksandr Ivanovich Oparin,1957 First Steps in the Origin of Life in the Universe Julian Chela-Flores,Tobias Owen,François Raulin,2011-06-28 Proceedings of the Sixth Trieste Conference on Chemical Evolution Trieste Italy 18 22 September 2000

A New History of Life Peter Ward,Joe Kirschvink,2015-01-01 Charles Darwin's theories first published more than 150 years ago still set the paradigm of how we understand the evolution of life but scientific advances of recent decades have radically altered that Now two pioneering scientists draw on their years of experience in paleontology biology chemistry and astrobiology to deliver an eye opening narrative using a generation's worth of insights culled from new research Writing with zest humor and clarity Ward and Kirschvink show that many of our

long held beliefs about the history of life are wrong Three central themes emerge First Ward and Kirschvink argue that catastrophe shaped life s history more than all other forces combined from notorious events like the sudden extinction of dinosaurs to the recently discovered Snowball Earth and the Great Oxygenation Event Second life consists of carbon but oxygen carbon dioxide and hydrogen sulfide determined how it evolved Third ever since Darwin we have thought of evolution in terms of species Yet it is the evolution of ecosystems from deep ocean vents to rainforests that has formed the living world as we know it Ward and Kirschvink tell a story of life on Earth that is at once fabulous and familiar And in a provocative coda they assemble discoveries from the latest cutting edge research to imagine how the history of life might unfold deep into the future

Seven Clues to the Origin of Life Alexander Graham Cairns-Smith,1990-09-13 The mysteries surrounding the origins of life on earth are written in detective story fashion by a world famous scientist in this popular version of Genetic Takeover originally published in 1982

Origins of Life on the Earth and in the Cosmos Geoffrey L. Zubay,1996 This introductory text describes key events in the evolution of life starting from the origin of the universe The emphasis is on experimentation with a discussion of past and current scientific research and experiments used to explain the origins of life The text is designed to attract a wide variety of students and is appropriate for use in a number of different disciplines as it requires little knowledge of biology or geology in the reader

Comets and the Origin and Evolution of Life Paul J. Thomas,Christopher F. Chyba,Christopher P. McKay,2013-03-09 This volume considers the role comets may have played in the origins and evolution of life particularly in light of recent investigations of Halley s comet of new insights into organic synthesis in meteorites and comets and of new results of numerical simulations of cometary orbits and impacts on Earth The book is intended as a comprehensive review of current research accessible to graduate students and others new to the field Each chapter was prepared by an expert to give an overview of an aspect of the field and carefully revised by the editors for uniformity in style and presentation

Origins Joseph Seckbach,2004-06-30 In this book forty eminent scientists examine the astrobiological origins of life and the emergence of biodiversity in extreme environments The coverage includes extremophiles microbes living in hostile conditions of high temperature psychrophilic UV radiation and halophilic environments Also discussed are the origin and history of Martian water and the possible biogeochemistry inside Titan

The Origins of Life on the Earth Stanley L. Miller,Leslie E. Orgel,1974 **First Life** David Deamer,2011 The origin of life may have happened an inconceivably long time ago but scientists like David Deamer are making major advances in understanding how the first microbes began to seethe on our planet ultimately giving rise to all species alive today In First Life Deamer offers a delightful synthesis of research into life s dawn with his own vision for how it came to be Carl Zimmer author of The Tangled Bank An Introduction to Evolution No living scientist has had a greater impact on our understanding of life s origins than Dave Deamer In First Life his remarkably engaging constantly lucid and delightfully personal narrative Deamer takes us behind the scenes of origins research as no one else could What a story Robert M Hazen Senior Staff

Scientist Carnegie Institution and author of *Genesis: The Scientific Quest for Life's Origins* David Deamer has written a truly wonderful book. A preeminent scientist in the origin of life field he has produced a synoptic wise and warmly human discussion. Anyone interested in how we came to exist in our universe had best read this book. Stuart Kauffman author of *At Home in the Universe: The Search for the Laws of Self Organization and Complexity* and *Reinventing the Sacred: A New View of Science, Reason and Religion*

The Search for Life on Other Planets Bruce Jakosky, 1998-10-15 Does life exist on other planets? This 1998 book presents the scientific basis for thinking there may be life elsewhere in the Universe. It is the first to cover the entire breadth of recent exciting discoveries including the discovery of planets around other stars and the possibility of fossil life in meteorites from Mars. Suitable for the general reader, this authoritative book avoids technical jargon and is well illustrated throughout. It covers all the major topics including the origin and early history of life on Earth, the environmental conditions necessary for life to exist, the possibility that life might exist elsewhere in our Solar System, the occurrence of planets around other stars and their habitability, and the possibility of intelligent extraterrestrial life. For all those interested in understanding the scientific evidence for and likelihood of extraterrestrial life, this is the most comprehensive and readable book to date.

The Origins of Life Hoimar von Ditfurth, 1982 *The Origins of Life* David W. Deamer, Jack W. Szostak, 2010 Life arose on Earth more than three billion years ago. How the first self-replicating systems emerged from prebiotic chemistry and evolved into primitive cell-like entities is an area of intense research spanning molecular and cellular biology, organic chemistry, cosmology, geology, and atmospheric science. Written and edited by experts in the field, this collection from Cold Spring Harbor Perspectives in Biology provides a comprehensive account of the environment of the early Earth and the mechanisms by which the organic molecules present may have self-assembled to form replicating material such as RNA and other polymers. The contributors examine the energetic requirements for this process and focus in particular on the essential role of semi-permeable compartments in the containment of primitive genetic systems. Also covered in the book are new synthetic approaches for fabricating cellular systems, the potentially extraterrestrial origin of life's building blocks, and the possibility that life once existed on Mars. Comprising five sections: Setting the Stage, Components of First Life, Primitive Systems, First Polymers, and Transition to a Microbial World, it is a vital reference for all scientists interested in the origin of life on Earth and the likelihood that it has arisen on other planets.

Chemical Evolution and the Origin of Life Horst Rauchfuss, 2008-10-15 How did life begin on the early Earth? We know that life today is driven by the universal laws of chemistry and physics. By applying these laws over the past fifty years, enormous progress has been made in understanding the molecular mechanisms that are the foundations of the living state. For instance, just a decade ago the first human genome was published, all three billion base pairs. Using X-ray diffraction data from crystals, we can see how an enzyme molecule or a photosynthetic reaction center steps through its catalytic function. We can even visualize a ribosome central to all life, translating genetic information into a protein. And we are just beginning to understand how

molecular interactions regulate thousands of simultaneous reactions that continuously occur even in the simplest forms of life. New words have appeared that give a sense of this wealth of knowledge: The genome, the proteome, the metabolome, the interactome. But we can't be too smug. We must avoid the mistake of the physicist who, as the twentieth century began, stated confidently that we knew all there was to know about physics; that science just needed to clean up a few dusty corners. Then came relativity, quantum theory, the Big Bang, and now dark matter, dark energy, and string theory. Similarly, in the life sciences, the more we learn, the better we understand how little we really know. There remains a vast landscape to explore with great questions remaining.

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