

# Beginning Of Life On Earth

J. William Schopf

*The Emergence of Life on Earth* Iris Fry, 2000 How did life emerge on Earth? Is there life on other worlds? These questions, until recently confined to the pages of speculative essays and tabloid headlines, are now the subject of legitimate scientific research. This book presents a unique perspective--a combined historical, scientific, and philosophical analysis, which does justice to the complex nature of the subject. The book's first part offers an overview of the main ideas on the origin of life as they developed from antiquity until the twentieth century. The second, more detailed part of the book examines contemporary theories and major debates within the origin-of-life scientific community. Topics include: Aristotle and the Greek atomists' conceptions of the organism Alexander Oparin and J.B.S. Haldane's 1920s breakthrough papers Possible life on Mars?

**Science and Creationism** National Academy of Sciences (U.S.), 1999 This edition of Science and Creationism summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a broader audience the case against presenting religious concepts in science classes. The document covers the origin of the universe, Earth, and life; evidence supporting biological evolution; and human evolution. (Contains 31 references.) (CCM)

The Search for Life's Origins National Research Council, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Planetary Biology and Chemical Evolution, 1990-02-01 The field of planetary biology and chemical evolution draws together experts in astronomy, paleobiology,

biochemistry, and space science who work together to understand the evolution of living systems. This field has made exciting discoveries that shed light on how organic compounds came together to form self-replicating molecules-the origin of life. This volume updates that progress and offers recommendations on research programs-including an ambitious effort centered on Mars-to advance the field over the next 10 to 15 years. The book presents a wide range of data and research results on these and other issues: The biogenic elements and their interaction in the interstellar clouds and in solar nebulae. Early planetary environments and the conditions that lead to the origin of life. The evolution of cellular and multicellular life. The search for life outside the solar system. This volume will become required reading for anyone involved in the search for life's beginnings-including exobiologists, geoscientists, planetary scientists, and U.S. space and science policymakers.

**The Origin and Nature of Life on Earth** Eric Smith, Harold J. Morowitz, 2016-03-31 Uniting the foundations of physics and biology, this groundbreaking multidisciplinary and integrative book explores life as a planetary process.

*The Origin of Life* Paul Davies, 2006-09-28 The origins of life remains one of the great unsolved mysteries of science. Growing evidence suggests that the first organisms lived deep underground, in environments previously thought to be uninhabitable, and that microbes carried inside rocks have travelled between Earth and Mars. But the question remains: how can life spring into being from non-living chemicals? **THE FIFTH MIRACLE** reveals the remarkable new theories and discoveries that seem set to transform our understanding of life's role in the unfolding drama of the cosmos.

*The First Cell* Ulrich C. Schreiber, Christian Mayer, 2020-06-05 This book introduces a fresh perspective on the conditions for the genesis of the first cell. An important possible environment of the prehistoric Earth has long been overlooked as a host to the perfect biochemical conditions for this process. The first complexes of continental crust on the early Earth must have already contained systems of interconnected cracks and cavities, which were filled with volatiles like water, carbon dioxide and nitrogen. This book offers insights into how these conditions may have provided the ideal physical and chemical setting for the formation of protocells and early stages of life. The authors support their hypothesis with a number of astonishing findings from laboratory experiments focusing on a variety of organic compounds, and on the formation of key cellular ingredients and of primitive cell-like structures. Moreover, they discuss the principles of prebiotic evolution regarding the aspects of order and complexity. Guiding readers through various stages of hypotheses and re-created evolutionary processes, the book is enriched with personal remarks and experiences throughout, reflecting the authors' personal quest to solve the mystery surrounding the first cell.

*A (Very) Short History of Life on Earth* Henry Gee, 2021-11-09 The Royal Society's Science Book of the Year [A]n exuberant romp through evolution, like a modern-day Willy Wonka of genetic space. Gee's grand tour enthusiastically details the narrative underlying life's erratic and often whimsical exploration of biological form and function." —Adrian Woolfson, The Washington Post In the tradition of Richard Dawkins, Bill Bryson, and Simon Winchester—An entertaining and uniquely informed narration of Life's life story. In the beginning, Earth was an inhospitably alien place—in constant chemical flux, covered with

churning seas, crafting its landscape through incessant volcanic eruptions. Amid all this tumult and disaster, life began. The earliest living things were no more than membranes stretched across microscopic gaps in rocks, where boiling hot jets of mineral-rich water gushed out from cracks in the ocean floor. Although these membranes were leaky, the environment within them became different from the raging maelstrom beyond. These havens of order slowly refined the generation of energy, using it to form membrane-bound bubbles that were mostly-faithful copies of their parents—a foamy lather of soap-bubble cells standing as tiny clenched fists, defiant against the lifeless world. Life on this planet has continued in much the same way for millennia, adapting to literally every conceivable setback that living organisms could encounter and thriving, from these humblest beginnings to the thrilling and unlikely story of ourselves. In *A (Very) Short History of Life on Earth*, Henry Gee zips through the last 4.6 billion years with infectious enthusiasm and intellectual rigor. Drawing on the very latest scientific understanding and writing in a clear, accessible style, he tells an enlightening tale of survival and persistence that illuminates the delicate balance within which life has always existed.

**The Origin and Nature of Life on Earth** Eric Smith, Harold J. Morowitz, 2016-03-31 Uniting the conceptual foundations of the physical sciences and biology, this groundbreaking multidisciplinary book explores the origin of life as a planetary process. Combining geology, geochemistry, biochemistry, microbiology, evolution and statistical physics to create an inclusive picture of the living state, the authors develop the argument that the emergence of life was a necessary cascade of non-equilibrium phase transitions that opened new channels for chemical energy flow on Earth. This full colour and logically

structured book introduces the main areas of significance and provides a well-ordered and accessible introduction to multiple literatures outside the confines of disciplinary specializations, as well as including an extensive bibliography to provide context and further reading. For researchers, professionals entering the field or specialists looking for a coherent overview, this text brings together diverse perspectives to form a unified picture of the origin of life and the ongoing organization of the biosphere.

**Life's Origin** J. William Schopf, 2002-10-21 Always a controversial and compelling topic, the origin of life on Earth was considered taboo as an area of inquiry for science as recently as the 1950s. Since then, however, scientists working in this area have made remarkable progress, and an overall picture of how life emerged is coming more clearly into focus. We now know, for example, that the story of life's origin begins not on Earth, but in the interiors of distant stars. This book brings a summary of current research and ideas on life's origin to a wide audience. The contributors, all of whom received the Oparin/Urey Gold Medal of the International Society for the Study of the Origin of Life, are luminaries in the fields of chemistry, paleobiology, and astrobiology, and in these chapters they discuss their life's work: understanding the what, when, and how of the early evolution of life on Earth. Presented in nontechnical language and including a useful glossary of scientific terms, *Life's Origin* gives a state-of-the-art encapsulation of the fascinating work now being done by scientists as they begin to characterize life as a natural outcome of the evolution of cosmic matter.

**The Story of Earth** Robert M. Hazen, 2013-07-30 Hailed by The New York Times for writing “with wonderful clarity about science . . . that effortlessly teaches as it zips along,” nationally bestselling author

Robert M. Hazen offers a radical new approach to Earth history in this intertwined tale of the planet's living and nonliving spheres. With an astrobiologist's imagination, a historian's perspective, and a naturalist's eye, Hazen calls upon twenty-first-century discoveries that have revolutionized geology and enabled scientists to envision Earth's many iterations in vivid detail—from the mile-high lava tides of its infancy to the early organisms responsible for more than two-thirds of the mineral varieties beneath our feet. Lucid, controversial, and on the cutting edge of its field, *The Story of Earth* is popular science of the highest order. A sweeping rip-roaring yarn of immense scope, from the birth of the elements in the stars to meditations on the future habitability of our world. -Science A fascinating story. -Bill McKibben

**Origin and Evolution of Earth** National Research Council, Division on Earth and Life Studies, Board on Earth Sciences and Resources, Committee on Grand Research Questions in the Solid-Earth Sciences, 2008-08-04 Questions about the origin and nature of Earth and the life on it have long preoccupied human thought and the scientific endeavor. Deciphering the planet's history and processes could improve the ability to predict catastrophes like earthquakes and volcanic eruptions, to manage Earth's resources, and to anticipate changes in climate and geologic processes. At the request of the U.S. Department of Energy, National Aeronautics and Space Administration, National Science Foundation, and U.S. Geological Survey, the National Research Council assembled a committee to propose and explore grand questions in geological and planetary science. This book captures, in a series of questions, the essential scientific challenges that constitute the frontier of Earth science at the start of the 21st century.

**Origins of the Earth, Moon, and Life** Akio Makishima, 2017-01-27 Origins of the Earth, Moon, and Life

in the Solar System: An Interdisciplinary Approach presents state-of-the-art knowledge that is based on theories, experiments, observations, calculations, and analytical data from five astro-sciences, astronomy, astrobiology, astrogeology, astrophysics, and cosmochemistry. Beginning with the origin of elements, and moving on to cover the formation of the early Solar System, the giant impact model of the Earth and Moon, the oldest records of life, and the possibility of life on other planets in the Solar System, this interdisciplinary reference provides a complex understanding of the planets and the formation of life. Synthesizing concepts from all branches of astro-sciences into one, the book is a valuable reference for researchers in astrogeology, astrophysics, cosmochemistry, astrobiology, astronomy, and other space science fields, helping users better understand the intersection of these sciences. Includes extensive figures and tables to enhance key concepts Uses callout boxes throughout to provide context and deeper explanations Presents up-to-date information on the universe, stars, planets, moons, and life in the solar system Combines knowledge from the fields of astrogeology, astrophysics, cosmochemistry, astrobiology, and astronomy, helping readers understand the origins of the Earth, the moon, and life in our solar system

*Beginnings of Cellular Life* Harold J. Morowitz, 1993-01-01 Develops a model of the origin of life in which cells originate first, proteins follow, and genes evolve last, which is supported by evidence mustered from biology, biochemistry, and biophysics. This work explores the origins of life and is for anyone who has ever thought seriously about the origin of life.

A New History of Life Peter Ward, Joe Kirschvink, 2015-04-07 The history of life on Earth is, in some form or another, known to us all--or so we think. A New History of Life offers a provocative new account,



based on the latest scientific research, of how life on our planet evolved--the first major new synthesis for general readers in two decades. Charles Darwin's theories, first published more than 150 years ago, form the backbone of how we understand the history of the Earth. In reality, the currently accepted history of life on Earth is so flawed, so out of date, that it's past time we need a 'New History of Life.' In their latest book, Joe Kirschvink and Peter Ward will show that many of our most cherished beliefs about the evolution of life are wrong. Gathering and analyzing years of discoveries and research not yet widely known to the public, *A New History of Life* proposes a different origin of species than the one Darwin proposed, one which includes eight-foot-long centipedes, a frozen "snowball Earth", and the seeds for life originating on Mars. Drawing on their years of experience in paleontology, biology, chemistry, and astrobiology, experts Ward and Kirschvink paint a picture of the origins life on Earth that are at once too fabulous to imagine and too familiar to dismiss--and looking forward, *A New History of Life* brilliantly assembles insights from some of the latest scientific research to understand how life on Earth can and might evolve far into the future.

Life Richard Fortey, 2011-03-23 By one of Britain's most gifted scientists: a magnificently daring and compulsively readable account of life on Earth (from the big bang to the advent of man), based entirely on the most original of all sources--the evidence of fossils. With excitement and driving intelligence, Richard Fortey guides us from the barren globe spinning in space, through the very earliest signs of life in the sulphurous hot springs and volcanic vents of the young planet, the appearance of cells, the slow creation of an atmosphere and the evolution of myriad forms of plants and animals that could then be sustained,

including the magnificent era of the dinosaurs, and on to the last moment before the debut of Homo sapiens. Ranging across multiple scientific disciplines, explicating in wonderfully clear and refreshing prose their findings and arguments--about the origins of life, the causes of species extinctions and the first appearance of man--Fortey weaves this history out of the most delicate tracteries left in rock, stone and earth. He also explains how, on each aspect of nature and life, scientists have reached the understanding we have today, who made the key discoveries, who their opponents were and why certain ideas won. Brimful of wit, fascinating personal experience and high scholarship, this book may well be our best introduction yet to the complex history of life on Earth. A Book-of-the-Month Club Main Selection With 32 pages of photographs

*The Origin of Life* John Desmond Bernal,1967

Origin of Life David W. Deamer,2020 I'll begin with a challenging question: Why should anyone want to know about the origin of life? The answers will vary from one person to the next, but the simplest answer is curiosity. Anyone reading this introduction is curious because they wonder how life could have begun on the Earth, but there is more to it than that. My friend Stuart Kauffman wrote a book with the title *At Home in the Universe*. The title refers to a deep sense of satisfaction that comes when we begin to understand how our lives on Earth are connected to the rest of the universe. There are surprises and revelations as we discover those connections--

*Vital Dust* Christian De Duve,1995-01-03 A sweeping portrait--covering four billion years--of the possible origins and evolution of life on earth, written by a Nobel Prize-winning biochemist on the cutting edge of research into these issues.

**Life's Origin** J. William Schopf, 2002 Exploring the origin of life on Earth, this text presents, in nontechnical language, an encapsulation of the work being done by scientists as they begin to characterize life as a natural outcome of the evolution of cosmic matter.

**Cradle of Life** J. William Schopf, 2021-10-12 One of the greatest mysteries in reconstructing the history of life on Earth has been the apparent absence of fossils dating back more than 550 million years. We have long known that fossils of sophisticated marine life-forms existed at the dawn of the Cambrian Period, but until recently scientists had found no traces of Precambrian fossils. The quest to find such traces began in earnest in the mid-1960s and culminated in one dramatic moment in 1993 when William Schopf identified fossilized microorganisms three and a half billion years old. This startling find opened up a vast period of time--some eighty-five percent of Earth's history--to new research and new ideas about life's beginnings. In this book, William Schopf, a pioneer of modern paleobiology, tells for the first time the exciting and fascinating story of the origins and earliest evolution of life and how that story has been unearthed. Gracefully blending his personal story of discovery with the basics needed to understand the astonishing science he describes, Schopf has produced an introduction to paleobiology for the interested reader as well as a primer for beginning students in the field. He considers such questions as how did primitive bacteria, pond scum, evolve into the complex life-forms found at the beginning of the Cambrian Period? How do scientists identify ancient microbes and what do these tiny creatures tell us about the environment of the early Earth? (And, in a related chapter, Schopf discusses his role in the controversy that swirls around recent claims of fossils in the famed meteorite from Mars.) Like all great teachers, Schopf teaches the non-

specialist enough about his subject along the way that we can easily follow his descriptions of the geology, biology, and chemistry behind these discoveries. Anyone interested in the intriguing questions of the origins of life on Earth and how those origins have been discovered will find this story the best place to start.

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