



# THE ORIGIN OF LIFE

# The Origin Of Life

**J. William Schopf**



## **The Origin Of Life:**

**The Origin of Life** John Desmond Bernal,1967      **Origins of Life** Geoffrey Zubay,2000-01-18 Origins of Life on the Earth and in the Cosmos Second Edition suggests answers to the age old questions of how life arose in the universe and how it might arise elsewhere This thorough revision of a very successful text describes key events in the evolution of living systems starting with the creation of an environment suitable for the origins of life Whereas one may never be able to reconstruct the precise pathway that led to the origin of life on earth one can certainly make some plausible reconstructions of it Such discussions have greatly expanded our understanding of the principles of chemical evolution and how they compare and contrast with the principles of biological evolution The text is strong on biochemistry and its recent applications to origins research Provides an excellent review of basic biochemistry an evolution Written in a clear concise style for scientists students and readers interested in a scientific inquiry into the origins of life Written by an authority in the field and brought fully up to date in light of new research Pulls together valuable information not found in a single source Organized and presented in a manner conducive for use in a college course Heavily illustrated to make difficult concepts concrete

*The Origin of Life* John Keosian,1968      **The Origin of Life on the Earth** A. I. Oparin,A. E. Braunshtein,A. G. Pasynskii,2013-09-03 The Origin of Life on the Earth covers the proceedings of the First International Symposium of The Origin of Life on the Earth held at Moscow on August 19 24 1957 This symposium brings together numerous scientific studies on the evolutionary principles and the different stages in the evolutionary development of matter This book is organized into seven parts encompassing 60 chapters The first parts discuss evidence that on the formation of hydrocarbons and their derivatives on the surface of the Earth even before the emergence of life The subsequent parts are devoted to the many asymmetrical syntheses under the influence of circularly polarized ultraviolet light by catalytic reactions occurring on the surface of quartz crystals and spontaneously by slow crystallization from solutions These topics are followed by reviews on the possible means of abiogenic formation of amino acids porphyrins protein like polymers polynucleotides and other high molecular organic compounds Considerable chapters explore the complete possibility of the primary formation of these compounds on the surface of the Earth even before life was present on it Other general topics covered include nucleic acids nucleoproteins and viruses The last part considers general biochemical problems connected with the further development of metabolism This book will be of value to astronomers physicists geologists chemists and biologists      *The Origin of Life*

Aleksandr Ivanovich Oparin,1938      **Origins of Life** ,2000-03-16 Living organisms are astonishingly complex And the more we know about them their biochemistry their anatomy their behaviour the more astonishing are the detailed adaptations that we discover How could this complexity have arisen Most of us are familiar with Darwin s theory of evolution by natural selection The idea behind it being that in nature those individuals best able to survive and reproduce will transmit the characteristics that enabled them to do so to their offspring leading to the evolution of traits beneficial to the organism

Although Darwin's idea is simple perhaps because it is so simple it is hard to believe that it is able to explain the complexity of the living world. We can breed cows that produce more milk compared with earlier generations, say, but we cannot breed pigs that fly or horses that can talk; there would be no promising variants that we could select and breed from. Where then does the variation come from that has made possible the evolution of ever increasing complexity in the wonderfully adapted organisms we see around us? In answering this central question, John Maynard Smith and Eors Szathmary present for a general readership a novel picture of evolution. Their basic idea is that evolution depends on changes in the information that is passed between generations and that there have been a number of major transitions in the way that information is stored and transmitted. These transitions include the appearance of the first replicating molecules, the origin of life itself, the origin of cells, reproduction by sexual means, the appearance of multicellular plants and animals, the emergence of cooperation and of animal societies, and the unique language ability of humans. Here then is an accessible account of contemporary biology on the grandest scale, from the birth of life to the origin of language. Containing many original ideas and covering many of the most fundamental ideas in biology, this important and deeply interesting book will appeal both to readers with little prior knowledge of science and to biologists themselves.

**The Origins of Life** John Maynard Smith, Eors Szathmary, 2000-03-16

In this fascinating book, John Maynard Smith and Eors Szathmary present an original picture of evolution. They propose that during evolution there have been a number of major transitions in the way in which information is passed between generations. These transitions include the appearance of the first replicating molecules, the emergence of cooperative animal societies, and the unique language ability of humans. Containing many new ideas, this book is contemporary biology on the grandest scale, from the birth of life to the origin of language.

**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.

**The Origins of Life on the Earth** Stanley L. Miller, Leslie E. Orgel, 1974

**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.

*Genesis and Evolutionary Development of Life* A. I. Oparin, 2013-10-22

*Genesis and Evolutionary Development of Life* discusses the present state of thought on the origin and development of life. The book contains six chapters and begins with a brief history of attempts to solve the problem of the origin of life. This is followed by separate chapters that discuss the following events: the initial stages in the evolution of carbon compounds, formation of the primitive soup, origin of prebiological systems, evolution of protobionts, and the origin of the first organisms and the further evolution of

the first organisms      **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

**Prebiotic Chemistry and the Origin of Life** Anna Neubeck, Sean McMahon, 2022-01-03 This book presents an overview of current views on the origin of life and its earliest evolution. Each chapter describes key processes, environments, and transition on the long road from geochemistry and astrochemistry to biochemistry and finally to the ancestors of today's organisms. This book combines the bottom-up and the top-down approaches to life, including the origin of key chemical and structural features of living cells and the nature of abiotic factors that shaped these features in primordial environments. The book provides an overview of the topic as well as its state of the art for graduate students and newcomers to the field. It also serves as a reference for researchers in origins of life on Earth and beyond.

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.

*Molecular Evolution and the Origin of Life* Sidney W. Fox, Klaus Dose, 1977

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

**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

*Origin of Life* C. H. Waddington, Theoretical biology is still in its early stages as an academic discipline There is even little agreement as to what topics it should deal with or in what manner it should precede and it is only recently that philosophers felt called upon to notice the relevance of biological topics as evolution or perception to their traditional problems This work is a publication of the International Union of Biological Sciences the central organization of all the branches of biology The main focus here is to explore the possibility of formulating some frame of concepts and methods around which theoretical biology can grow The intention of this collective effort was that discussions would be concerned not with the theory of particular biological processes such as membrane permeability genetics and neural activity but rather with an attempt to discover and formulate general concepts and logical relations characteristic of living as contrasted with inorganic systems Further this project is a consideration of implications these might have for general philosophy Many well known scientists contributed to this volume such as J Maynard Smith Ernst Mayr Brian Goodwin and Ren Thom The Origin of Life Toward a Theoretical Biology explores the character of the problems facing any theory of general biology It contains a series of chapters and exchanges discussing such topics as the origin of life cellular differentiation morphogenesis evolution and indeterminacy in biological and physical systems the organization of the brain the statistical mechanics of non linear oscillators and many other topics This is a pioneering volume by recognized leaders in an emerging field the first of four such works

*The Emergence of Life on Earth* Iris Fry, 2000 Essential reading for people in disciplines ranging from philosophy to biology It is simply the best general

book that I know on the question of the origin of life Michael Ruse author of *Mystery of Mysteries Is Evolution a Social Construction* Fry has fashioned a masterful account of the history philosophy and science of the origin of life and the possibility of extraterrestrial life Her story weaves profound Western ideas of who we are and where we came from from Aristotle to Gould from Kant to NASA Woodruff Sullivan University of Washington A rich source for the specialist and thought provoking reading for the lay person Gunter Wachtershauser University of Regensburg Germany 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 *Life's Origin* J. William Schopf, 2002

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### **The Origin Of Life Introduction**

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