

SEVEN CLUES TO THE ORIGIN OF LIFE

A SCIENTIFIC DETECTIVE STORY

A · G · CAIRNS-SMITH

Seven Clues Origin Li

Alexander G. Cairns-Smith



Seven Clues Origin Li:

Seven Clues to the Origin of Life Alexander G. Cairns-Smith, 1986 This amusing lively book explains in language comprehensible to the layman the author's somewhat controversial views about the possible origin of life *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 **Origin of Life via Archaea** Richard Gordon, 2024-08-26 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* 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

How Blind is the Watchmaker? Neil Broom, 2019-01-15 First published in 1998 this book shows that modern materialistic science for all its ability to analyse in truly impressive detail the workings of the living world remains powerless to explain the phenomenon of life itself Drawing on a variety of examples from experience of the biological world as a practising scientist the author shows that the qualities of purpose intentionality and mind suffuse almost every aspect of the living realm yet these same qualities remain totally unaccounted for by science itself The author argues that the all too common humanistic dismissal of these crucial components of reality undermines the integrity of science itself and is intellectually perverse He argues that scientific materialism despite its enormous influence in shaping today's high tech world actually presents a gross trivialization of the concept of life Further while unable of itself to provide ultimate answers to the mystery of life this science uncovers facts that point beyond these to a transcendent theistic dimension or in the words of the title to a Watchmaker who indeed is not blind

How Molecular Forces and Rotating Planets Create Life Jan Spitzer, 2021-02-09 A reconceptualization of origins research that exploits a modern understanding of non covalent molecular forces that stabilize living prokaryotic cells Scientific research into the origins of life remains exploratory and speculative Science has no definitive answer to the biggest questions What is life and How did life begin on earth In this book Jan Spitzer reconceptualizes origins research by exploiting a modern understanding of non covalent molecular forces and covalent bond formation a physicochemical approach propounded originally by Linus Pauling and Max Delbrück Spitzer develops the Pauling Delbrück premise as a physicochemical jigsaw puzzle that identifies key stages in life's emergence from the formation of first oceans tidal sediments and proto biofilms to progenotes proto cells and the first cellular organisms

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

Genesis - In The Beginning Joseph Seckbach, 2012-03-19 Genesis In The Beginning deals with the origin

and diversity of Life and early biological evolution and discusses the question of where hot or cold sources and when the beginning of Life took place Among the sections are chapters dealing with prebiotic chemical processes and considering self replication of polymers in mineral habitats One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life This volume covers the role of symmetry information and order homochiral biomolecules in the beginning of Life The models of protocells and the genetic code with gene transfer are important topics in this volume Three chapters discuss the Panspermia hypothesis to answer Are we from outer Space Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere and its connection to Earth We conclude with the history and frontiers of Astrobiology **New Views on an Old Planet** Tjeerd H. van

Andel, 1994-10-28 In this 1994 revised edition of his award winning book on the Earth's history Professor van Andel updates and expands his earlier text drawing on a wealth of new knowledge that has become available in the last decade This book examines the major changes in the Earth's history the evolution of the solid Earth the changing oceans and atmospheres and the progression of life to render a historical account of the Earth's evolution Much knowledge was gained in the previous decade and while little material has been deleted this new edition has grown to cover the key topics including a chapter on how we can improve our grasp on geological time Mindful of the current interest in global change new sections describe the green house effect and address its possible future ramifications In prose that is both concise and compelling *New Views on an Old Planet A History of Global Change* makes Earth history appealing to the general reader It will serve as an excellent text for introductory courses in the earth and environmental sciences *Intracellular Calcium* Anthony K.

Campbell, 2014-10-14 Thousands of imaginative scientists over more than a century have revealed the fascinating story of intracellular calcium through a pathway of ingenious invention and discovery *Intracellular Calcium* the definitive book on this topic reveals The pathway of discovery and invention of intracellular calcium over more than 100 years The evidence for intracellular calcium as a universal switch in all animal plant fungal and microbial cells How the components required for calcium signalling are named and classified The ingenious technology which has been developed to study intracellular calcium How calcium is regulated inside cells and how it works to trigger an event The role of intracellular calcium in disease cell injury and cell death How many drugs work through the calcium signalling system How intracellular calcium is involved in the action of many natural toxins How the intracellular calcium signalling system has evolved over 4000 million years showing why it was crucial to the origin of life A key principle presented throughout the book is the molecular variation upon which the intracellular calcium signalling system depends This variation occurs within the same cell type and between cells with different functions providing the invisible matrix upon which Darwin and Wallace's Natural Selection depends Featuring more than 100 figures including detailed chemical structures as well as pictures of key pioneers in the field a bibliography of more than 1500 references as well as detailed subject and organism indices this definitive work provides a unique source of

scholarship for teachers and researchers in the biomedical sciences and beyond

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