



Origin Evolution Of Life

J. William Schopf



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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

Life's Origin J. William Schopf, 2002-10-21 This volume explores the historical and current theories about the origin of life addressing in particular the three key puzzles of how and when life began on Earth and in what form

The Origin and Evolution of Life Henry Fairfield Osborn, 2023-07-18 A classic scientific work that explores the origins and evolution of life on Earth drawing on the latest discoveries in biology geology and paleontology This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we know it This work is in the public domain in the United States of America and possibly other nations Within the United States you may freely copy and distribute this work as no entity individual or corporate has a copyright on the body of the work Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We

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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

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

Extraterrestrial Life NASA Scientific and Technical Information Facility, 1965

The Origins of Life Anna-Teresa Tymieniecka, 2013-03-09 Life appears ungraspable yet its understanding lies at the heart of current preoccupations In our attempt to understand life through its origins the ambition of the present collection is to unravel the network of the origin of the various spheres of sense that carry it onwards The

primogenital matrix of generation Tymieniecka elaborated as the fulcrum of this collection elucidates the main riddles of the scientific philosophical controversies concerning the status of various spheres that seek to make sense of life Workshop on the Origins of Solar Systems Joseph A. Nuth,1988 Topics addressed include interstellar chemistry and primitive bodies astronomical measurements and nebula models solar nebula models and meteorite and planetary accumulation and evolution

Vital Dust Christian De Duve,1995-12-22 Is the emergence of life on Earth the result of a single chance event or combination of lucky accidents or is it the outcome of biochemical forces woven into the fabric of the universe And if inevitable what are these forces and how do they account not only for the origin of life but also for its evolution toward increasing complexity Vital Dust is a groundbreaking history of life on Earth a history that only someone of Christian de Duve's stature and erudition could have written **The Origin and Evolution of Life** Henry Fairfield Osborn,1925 The Origin and Evolution of Life Henry Fairfield Osborn,1917 **Planetary Astrobiology** Victoria Meadows, Giada Arney, Britney Schmidt, David J. Des Marais,2020-07-07 Are we alone in the universe How did life arise on our planet How do we search for life beyond Earth These profound questions excite and intrigue broad cross sections of science and society Answering these questions is the province of the emerging strongly interdisciplinary field of astrobiology Life is inextricably tied to the formation chemistry and evolution of its host world and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability informing the search for life in our solar system and beyond Planetary Astrobiology brings together current knowledge across astronomy biology geology physics chemistry and related fields and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions Planetary Astrobiology represents the combined efforts of more than seventy five international experts consolidated into twenty chapters and provides an accessible interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology planetary science and exoplanet communities enabling a new era of comparative planetology that encompasses conditions and processes for the emergence evolution and detection of life *Origins of Life* Vlado Valkovic,2021-11-09 The primary purpose of this book is to prepare the ground for coordinated efforts aiming to answer the question where and when life originated The appearance of life involves three successive stages i the formation of chemical elements and their combination to simple molecules which is the concern of physicists ii the evolution of organized complexity in biomolecules and their reactions which falls within the field of chemistry iii the onset of Darwinian evolution after the appearance of the first cell like structure which is studied by biologists This book focuses on the first two steps of this process with chapters exploring topics such as chemical element abundances galaxies galactic magnetic fields and

cosmic rays galactic chemical evolution Key Features Contains extensive lists of reference and additional reading Includes new hypotheses concerning the origin of life Combines consideration from nuclear physics astrophysics astro and geochemistry Despite its interdisciplinary nature this book remains accessible to nonexperts and would be a valuable companion for both experts and laypeople *The Nature of Life* Mark A. Bedau, Carol E. Cleland, 2018-11-22 Introduces a broad range of scientific and philosophical issues about life through the original historical and contemporary sources

Planets and Life Woodruff T. Sullivan, III, John Baross, 2007-09-13 Astrobiology involves the study of the origin and history of life on Earth planets and moons where life may have arisen and the search for extraterrestrial life It combines the sciences of biology chemistry palaeontology geology planetary physics and astronomy This textbook brings together world experts in each of these disciplines to provide the most comprehensive coverage of the field currently available Topics cover the origin and evolution of life on Earth the geological physical and chemical conditions in which life might arise and the detection of extraterrestrial life on other planets and moons The book also covers the history of our ideas on extraterrestrial life and the origin of life as well as the ethical philosophical and educational issues raised by astrobiology Written to be accessible to students from diverse backgrounds this text will be welcomed by advanced undergraduates and graduates who are taking astrobiology courses

Protocells and the Origin of Life Roberto Serra, Marco Villani, 2025-08-28 How life can emerge in a lifeless environment is one of the major open scientific challenges This book pays particular attention to self organization phenomena that might have led to the appearance of the first protocells i e cell like structures much simpler than present day cells endowed with some primitive kinds of metabolism and heredity After a brief description of the known facts and main hypotheses mathematical and computational models of protocells are discussed they should complement laboratory experiments allowing rapid explorations of the dynamical properties of several alternative types of protocell architectures Given the great uncertainties about the actual origin of life it seems impossible to provide a detailed and complete reconstruction of the first life forms It is therefore necessary to identify plausible pathways highlighting the main physical and chemical processes towards life that can take place Generic models which are abstract enough to encompass different specific hypotheses are particularly relevant as they allow one to identify properties which are common to several different detailed scenarios They are widely discussed and a particular case is described in detail namely that of synchronization between the rate of molecular replication and that of reproduction of the whole protocell which is a necessary condition for sustainable growth of a population and a prerequisite for further evolution Using generic models it is shown that such synchronization spontaneously emerges in successive generations under very general assumptions The book also contains extensive descriptions of the emergence of long polymers of autocatalytic sets and of the interactions between protocells and their environments The book is not meant only for specialists but also for scientists working in different fields as well as for laymen with an interest in science It requires a basic knowledge of chemistry and biology and an interest in

simulation models *Encyclopedia of Science and Technology Communication* Susanna Hornig Priest, 2010-07-14 In the academic world the term science communication refers both to a set of professions such as science journalism and public information work and to an interdisciplinary scholarly research specialization Much of this research is aimed at improving our understanding of the best ways to communicate complex information especially to people who are not scientists Science communication specialists are concerned with giving people useful information about health environment and technology as well as science itself In order to do this we also need to improve our understanding of how people think form opinions and process information Additionally professional practitioners in science communication are engaged in strategic and ethical decisions every day such as How should reporters cover the issue of climate change Should the views of scientists who do not believe that climate change has been caused by human activity be included alongside the views of those who do in order to give a balanced story or does this mislead the public into thinking that both of these positions are equally accepted within the scientific community The Encyclopedia of Science and Technology Communication provides information on the entire range of interrelated issues in this interdisciplinary field in one place along with clear suggestions on where to begin the search for more Geared towards undergraduate and graduate students in journalism communication mass communication and media studies as well as towards working journalists public information officers and public relations specialists this encyclopedia introduces this vast fascinating field while challenging the reader to question assumptions inherent in communication across disciplinary boundaries Key Themes Associations and Organizations Audiences Opinions and Effects Challenges Issues and Controversies Changing Awareness Opinion And Behavior Critical Influences and Events Global and International Aspects Government Agencies US History Philosophy and Sociology of Science Important Figures Journal Publications Key Cases and Current Trends Law Policy Ethics and Beliefs Major Infrastructural Initiatives Practices Strategies and Tools Professional Roles and Careers Public Engagement Approaches Theory and Research Venues and Channels **Water Worlds in the Solar System** Antony Joseph, 2022-11-25 Water Worlds in the Solar System In Search of Habitable Environments and Life is a comprehensive reference on the formation availability habitability potential and astrobiological implications of water in the Solar System The book provides understanding of the importance of water on Earth to elucidate potential water and biosignature sources on other bodies in the Solar System It covers processes involved in the formation of Earth and its Moon genesis of water on those bodies events on early Earth and other processes that are applicable to celestial bodies in the Solar System directly correlating data available on water on other bodies to over 15 Earth analogue sites This book forms a comprehensive overview on water in the Solar System from formation to biosignature and habitability considerations It is ideal for academics researchers and students working in the field of planetary science extraterrestrial water research and habitability potential Presents a comprehensive reference on water in the Solar System developing readers understanding of the importance and occurrence of water on Earth and beyond all from an oceanographer s perspective Contrasts terrestrial

analogues in relation to their roles in understanding and exploring ocean worlds and habitability Includes numerous figures illustrations tables and videos to help readers better understand concepts covered **The Chinese Students' Monthly**, 1928

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