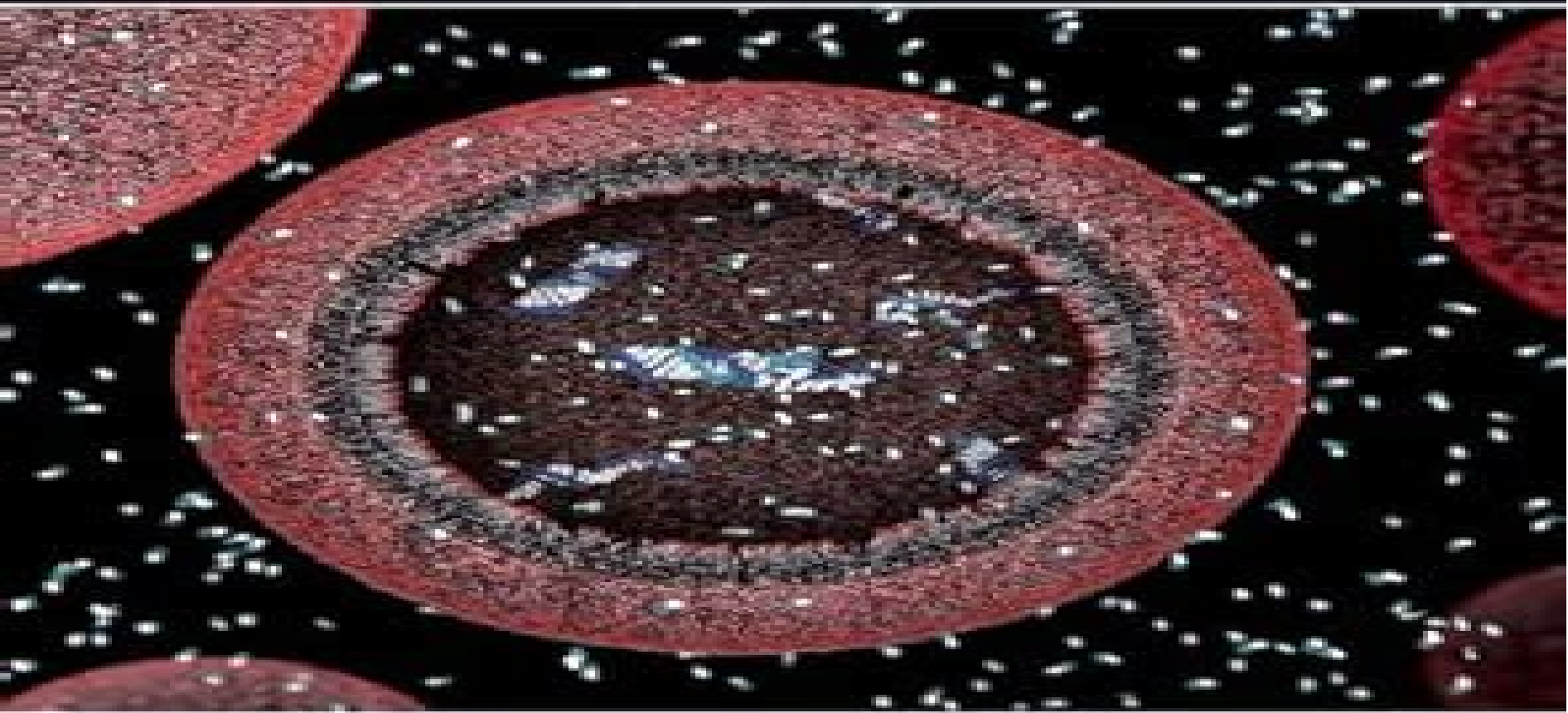


COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY

The Origins of Life



EDITED BY David Deamer
Jack W. Szostak

The Origins Of Life Cold Spring Harbor Perspectives In Biology

**Henderson James Cleaves, Antonio
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Negrón-Mendoza, Juli Peretó, Ervin
Silva**

The Origins Of Life Cold Spring Harbor Perspectives In Biology:

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 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

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

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 Revolutionary Origins of Life and Death** Pierre M.

Durand,2020-12-09 The question of why an individual would actively kill itself has long been an evolutionary mystery Pierre M Durand s ambitious book answers this question through close inspection of life and death in the earliest cellular life As Durand shows us cell death is a fascinating lens through which to examine the interconnectedness in evolutionary terms of life and death It is a truism to note that one does not exist without the other but just how does this play out in evolutionary history These two processes have been studied from philosophical theoretical experimental and genomic angles but no one has yet integrated the information from these various disciplines In this work Durand synthesizes cellular studies of life and death looking at the origin of life and the evolutionary significance of programmed cellular death The exciting and unexpected outcome of Durand s analysis is the realization that life and death exhibit features of coevolution The evolution of more complex cellular life depended on the coadaptation between traits that promote life and those that promote death In an ironic twist it becomes clear that in many circumstances programmed cell death is essential for sustaining life **Herrera's 'Plasmogenia' and Other Collected Works** Henderson James Cleaves, Antonio Lazcano, Ismael Ledesma Mateos, Alicia Negrón-Mendoza, Juli Peretó, Ervin Silva, 2014-06-21 This book collects three outstanding examples of the work of Mexican biologist Alfonso Luis Herrera 1868 1943 a pioneer in experimental origins of life research Two of the collected works appear here in English for the first time Herrera s works represent the attempt to deal experimentally with the issue of an autotrophic origin of life a possibility that was widely accepted prior to Alexander I Oparin s ideas regarding the possibility of organic synthesis and the origin of life in an early Earth environment An active promoter of Darwinian ideas in Latin America Herrera was also among the first 20th century researchers to attempt to create life in a test tube This collection shows the remarkable prescience of researchers in Mexico with regards to laboratory approaches to the problem of the origin of life It also includes a modern commentary by researchers actively engaged in research in prebiotic evolution and the origins of life and deeply concerned with the historical development of ideas in these fields The list includes H James Cleaves Antonio Lazcano Alicia Negrón-Mendoza and Juli Peretó who discuss in detail the relevance of Herrera s ideas to modern theory and their historical context The book will expose modern readers and researchers to currents of thinking that have been lost largely to time and language inaccessibility of a seminal early theoretical biologist What is Life? On Earth and Beyond

Andreas Losch, 2017-07-13 Approaches from the sciences philosophy and theology including the emerging field of astrobiology can provide fresh perspectives to the age old question what is life Has the secret of life been unveiled and is it nothing more than physical chemistry Modern philosophers will ask if we can even define life at all as we still don't know much about its origins here on Earth Others regard life as something that cannot simply be reduced to just physics and chemistry while biologists emphasize the historical component intrinsic to life on Earth How can theology constructively interpret scientific findings Can it contribute constructively to scientific discussions Written for a broad interdisciplinary audience this probing volume discusses life intelligence and more against the background of contemporary biology and the wider contexts of astrobiology and cosmology It also considers the challenging implications for science and theology if extraterrestrial life is discovered in the future

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

The Evolution of Life Graham Bell, 2015 The Evolution of Life stands alone amongst the major textbooks by focusing on key principles to offer a truly accessible unintimidating treatment of evolutionary biology

The Comprehensive Guide to Science and Faith William A. Dembski, Casey Luskin, Joseph M. Holden, 2021-10-05 Science and Faith Can and Do Support Each Other Science and Christianity are often presented as opposites when in fact the order of the universe and the complexity of life powerfully testify to intelligent design With this comprehensive resource that includes the latest research you'll witness how the findings of scientists provide compelling reasons to acknowledge the mind and presence of a creator Featuring more than 45 entries by top caliber experts you'll better understand how scientific concepts like intelligent design are supported by evidence the scientific findings that support the history and accounts found in the Bible the biases that lead to scientific information being presented as a challenge rather than a complement to Christianity Whether you're looking for answers to your own questions or seeking to explain the case for intelligent design to others The

Comprehensive Guide to Science and Faith is an invaluable apologetic tool that will help you explore and analyze the relevant facts research and theories in light of biblical truth Fungal Biology in the Origin and Emergence of Life David

Moore,2013-01-24 Contents 1 **Conflicting Models for the Origin of Life** Stoyan K. Smoukov,Joseph Seckbach,Richard Gordon,2023-03-14 Conflicting Models for the Origin of Life 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 emerge d 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 **Encyclopedia of Astrobiology** Muriel Gargaud,Ricardo Amils,2011-05-26 Astrobiology is a remarkably interdisciplinary field This reference serves as a key to understanding technical terms from the different subfields of astrobiology including astronomy biology chemistry the geosciences and the space sciences *DNA Nanoscience* Kenneth Douglas,2016-10-14 DNA Nanoscience From Prebiotic Origins to Emerging Nanotechnology melds two tales of DNA One is a look at the first 35 years of DNA nanotechnology to better appreciate what lies ahead in this emerging field The other story looks back 4 billion years to the possible origins of DNA which are shrouded in mystery The book is divided into three parts comprised of 15 chapters and two Brief Interludes Part I includes subjects underpinning the book such as a primer on DNA the broader discipline of nanoscience and experimental tools used by the principals in the narrative Part II examines the field of structural DNA nanotechnology founded by biochemist crystallographer Nadrian Seeman that uses DNA as a construction material for nanoscale structures and devices rather than as a genetic material Part III looks at the work of physicists Noel Clark and Tommaso Bellini who found that short DNA nanoDNA forms liquid crystals that act as a structural gatekeeper orchestrating a series of self assembly processes using nanoDNA This led to an explanation of the polymeric structure of

DNA and of how life may have emerged from the prebiotic clutter *Vital Question* Nick Lane, 2015-07-13 One of the deepest most illuminating books about the history of life to have been published in recent years The Economist The Earth teems with life in its oceans forests skies and cities Yet there s a black hole at the heart of biology We do not know why complex life is the way it is or for that matter how life first began In *The Vital Question* award winning author and biochemist Nick Lane radically reframes evolutionary history putting forward a solution to conundrums that have puzzled generations of scientists For two and a half billion years from the very origins of life single celled organisms such as bacteria evolved without changing their basic form Then on just one occasion in four billion years they made the jump to complexity All complex life from mushrooms to man shares puzzling features such as sex which are unknown in bacteria How and why did this radical transformation happen The answer Lane argues lies in energy all life on Earth lives off a voltage with the strength of a lightning bolt Building on the pillars of evolutionary theory Lane s hypothesis draws on cutting edge research into the link between energy and cell biology in order to deliver a compelling account of evolution from the very origins of life to the emergence of multicellular organisms while offering deep insights into our own lives and deaths Both rigorous and enchanting *The Vital Question* provides a solution to life s vital question why are we as we are and indeed why are we here at all

Prebiotic chemistry and the origin of life Giovanni Occhipinti, 2024-01-15 Born from twenty five years of experimental research and a decade of bibliographic studies this publication delves into the fascinating theory of life s abiotic origins It begins with simple amino acids the building blocks of proteins revealing how these compounds present from the prebiotic era and discovered in ancient meteorites may have been pivotal in life s evolutionary journey Focusing particularly on amino acids chirality that is their existence in mirror image right and left forms the author probes the critical enigma of their separation and why the left L form dominates in all known living beings The book sparks a compelling discussion about how this bifurcation might have occurred at life s very inception and the ultimate fate of the right form The text further extends its reach proposing theories on the genetic code s origins the selection of the 20 natural amino acids from many known and a physical theory of consciousness in bacteria *Prebiotic Chemistry and the Origin of Life* is more than a trek through the complexities of chemistry and molecular biology it s an enthralling journey into some of life s most profound existential questions

Astrobiology Kevin W. Plaxco, Michael Gross, 2021-08-03 What is life Origins of a habitable universe Origins of a habitable planet Primordial soup The spark of life From molecules to cells A concise history of life on Earth Life on the edge Habitable worlds in the solar system and beyond The search for ET *An Astrobiology Strategy for the Search for Life in the Universe* National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, Space Studies Board, Committee on Astrobiology Science Strategy for the Search for Life in the Universe, 2019-03-20 Astrobiology is the study of the origin evolution distribution and future of life in the universe It is an inherently interdisciplinary field that encompasses astronomy biology geology heliophysics and planetary science including

complementary laboratory activities and field studies conducted in a wide range of terrestrial environments Combining inherent scientific interest and public appeal the search for life in the solar system and beyond provides a scientific rationale for many current and future activities carried out by the National Aeronautics and Science Administration NASA and other national and international agencies and organizations Requested by NASA this study offers a science strategy for astrobiology that outlines key scientific questions identifies the most promising research in the field and indicates the extent to which the mission priorities in existing decadal surveys address the search for life s origin evolution distribution and future in the universe This report makes recommendations for advancing the research obtaining the measurements and realizing NASA s goal to search for signs of life in the universe [The First Steps of Life](#) Ernesto Di Mauro,2024-02-28

Origin of Life studies have a nearly impossible goal understanding nature through the comprehension of its origins and its complexities As a growing field with poorly defined borders Origin of Life studies profit from progress in other disciplines This book proposes both an overview of this large area and an in depth look at the opinions and results obtained by some of the active contributors of this fascinating and deeply thought provoking matter The topics are presented in a bottom up order first touching on the habitability of the universe then the rationale behind meaningful prebiotic chemistry the possible or probable prebiotic chemical frames the problem of chirality and moving on through the role of minerals in biogenesis biogenic fertile environments the in and out problem as solved by vesicles physics the evolution of the codes the structure of LUCA and its proto metabolisms and the meaning of complex extant biological biomorphs as exemplified by viroids These topics and the reasoning within the chapters are provided against the backdrop of the evolution of information and complexity

Dictionary of Christianity and Science Zondervan,2017-04-25 The definitive reference work on science and Christian belief How does Christian theology relate to scientific inquiry What are the competing philosophies of science and do they work with a Christian faith based on the Bible No reference work has covered this terrain sufficiently until now Featuring entries from over 140 international contributors the Dictionary of Christianity and Science is a deeply researched peer reviewed fair minded work that illuminates the intersection of science and Christian belief In one volume you get reliable summaries and critical analyses of over 450 relevant concepts theories terms movements individuals and debates You will find answers to your toughest questions about faith and science from the existence of Adam and Eve to the age of the earth evolution and string theory FEATURES INCLUDE Over 450 entries that will help you think through some of today s most challenging scientific topics including climate change evolution bioethics and much more Essays from over 140 leading international scholars including Francis Beckwith Michael Behe Darrell Bock William Lane Craig Hugh Ross Craig Keener Davis Young John Walton and many more Multiple view essays on controversial topics allow you to understand and compare differing Christian viewpoints Learn about flesh and blood figures who have shaped the interaction of science and religion Augustine Aquinas Bacon Darwin and Stephen Hawking are just the beginning Fully cross referenced entries include

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