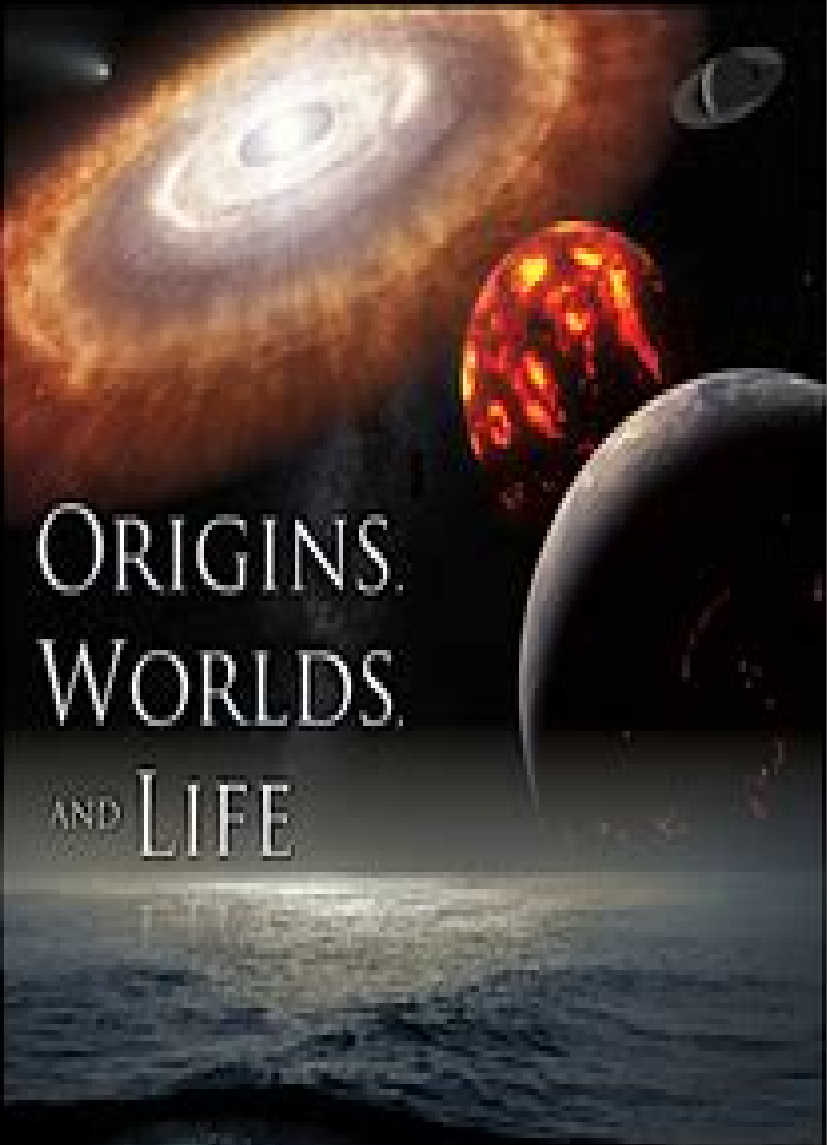


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A vertical rectangular panel featuring a cosmic scene. At the top, a large, glowing orange and yellow spiral galaxy dominates the left side. To its right, a smaller ringed planet is visible. Below the galaxy, a bright, fiery orange-red planet is shown. In the foreground on the right, a large, dark, crescent-shaped planet or moon is partially visible. The bottom of the panel shows a dark, rippling body of water reflecting the light from the celestial bodies above.

# ORIGINS. WORLDS. AND LIFE

A Decadal Strategy for  
Planetary Science and Astrobiology  
2023-2032

# The Origins Of Life The Story Of Science

**Clemens Wendtner**



## **The Origins Of Life The Story Of Science:**

*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

**Creation** Adam Rutherford, 2013-04-04 You will not find a better more balanced or up to date take on either the origin of life or synthetic biology Essential reading Observer Creation by Adam Rutherford tells the entire spellbinding story of life in two gripping narratives Prepare to be astounded There are moments when this book is so gripping it reads like a thriller Mail on Sunday The Origin of Life is a four billion year detective story that uses the latest science to explain what life is and where it first came from dealing with life's biggest questions and arriving at a thrilling answer A superbly written explanation Brian Cox The Future of Life introduces an extraordinary technological revolution synthetic biology the ability to create entirely new life forms within the lab Adam Rutherford explains how this remarkable innovation works and presents a powerful argument for its benefit to humankind The reader's sense of awe at the well nigh inconceivable nature of nature is suitably awakened The extraordinary science and Rutherford's argument are worth every reader's scrutiny Fascinating Sunday Telegraph One of the most eloquent and genuinely thoughtful books on science over the past decade You will not find a better more balanced or up to date take on the origin of life or synthetic biology Essential reading for anyone interested in the coming revolution which could indeed rival the Industrial Revolution or the internet Observer The perfect primer on the past and future of DNA Guardian Sensesful erudite and thrilling Prospect A witty engaging and eye opening explanation of the basic units of life right back to our common ancestors and on to their incredible synthetic future The mark of a really good science book it shows that the questions we still have are just as exciting as the answers we already know Dara O Briain This is a quite delightful two books in one Rutherford's lightness of touch in describing the dizzying complexity of life at the cellular level in The Origin of Life only serves to emphasise the sheer scale and ambition of the emerging field of synthetic biology Jim Al Khalili A fascinating glimpse into our past and future Rutherford's illuminating book is full of optimism about what we might be able to achieve Sunday Times Fresh original and excellent An eye opening look at how we are modifying and constructing life Totally fascinating PopularScience.co.uk In this book of two halves Rutherford tells the epic history of life on earth and eloquently argues the case for embracing technology which allows us to become biological designers Alice Roberts An engaging account of both the mystery of life's origin and its impending resolution as well as a fascinating glimpse

of the impending birth of a new synthetic biology Matt Ridley author of *Genome* I warmly recommend Creation Rutherford s academic background in genetics gives him a firm grasp of the intricacies of biochemistry and he translates these superbly into clear English Financial Times Dr Adam Rutherford is a geneticist writer and broadcaster He presents BBC Radio 4 s weekly programme Inside Science and his documentaries include the award winning series The Cell BBC4 The Gene Code BBC4 Horizon Playing God BBC2 as well as numerous other programmes for BBC Radio 4 This is his first book

TGTCGTGAAGCTACTATTTTAAATGCCACAGTGAAAGATTAAACGCCCCGAAAACGGGGTGATAAATGGACGGTAAGTTCCCGACTAAACGTGTAAATG *Origin of Life* David W. Deamer,2020 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* R 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 **Discovering Life's Story** Joy Hakim,2024 In the second volume of the *Discovering Life s Story* series by best selling author Joy Hakim the theory of evolution takes hold transforming ideas about survival extinction and life itself Can species change Or go extinct In the eighteenth century most people answer no to both questions But in the century that follows that certainty gets challenged as some people in Europe question the common belief that all creatures are the same as they ve been since life s creation The *Evolution of an Idea* the second volume of *Discovering Life s Story* opens with the Swedish naturalist Carl Linnaeus who attempts to create an organizing system for the myriad forms of life on earth It continues into the late 1800s when two Englishmen Charles Darwin and Alfred Russel Wallace each develop their own version of a startling new theory of how life forms change over time This evolutionary idea will alter the understanding of our place in the great web of life on earth In this remarkable volume author Joy Hakim continues charting the path of human discovery and shows how groundbreaking thinkers began to unlock the biological secrets of our own existence **Discovering Life's Story: Biology's Beginnings** Joy Hakim,2023-09 This first of a four part MITEen series charts the evolution of life science up to the late 1800s when the origins of the virus was discovered by a baffled Dutch biologist who found a tiny infectious particle destroying tobacco crops

**A History of the Life Sciences, Revised and Expanded** Lois N. Magner,2002-08-13 A clear and concise survey of the

major themes and theories embedded in the history of life science this book covers the development and significance of scientific methodologies the relationship between science and society and the diverse ideologies and current paradigms affecting the evolution and progression of biological studies The author d **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 **Cowen's History of Life** Michael J. Benton,2019-08-07 A newly revised and fully updated edition of the market leading introduction to paleontology Designed for students and anyone else with an interest in the history of life on our planet the new edition of this classic text describes the biological evolution of Earth s organisms and reconstructs their adaptations and the ecology and environments in which they functioned Cowen s History of Life 6th Edition includes major updates including substantial rewrites to chapters on the origins of eukaryotes the Cambrian explosion the terrestrialization of plants and animals the Triassic recovery of life the origin of birds the end Cretaceous mass extinction and human evolution It also features new chapters on plants soils and transformation of the land the Mesozoic marine revolution and the evolution of oceans and climates Beginning with the origin of the Earth and the earliest life on earth the book goes on to offer insightful contributions covering the evolution of Metazoans the early vertebrates life of vertebrates on land and early amniotes and thermoregulation The book also looks at dinosaur diversity as well as their demise early mammals the rise of modern mammals the Neogene Savannas primates life in the ice ages and more Covers the breadth of the subject in a concise yet specific way for undergrads with no academic background in the topic Reorganizes all chapters to reflect the geological series of events enabling a new focus on big events Updated with three brand new chapters and numerous revised ones Put together by a new editorial team internationally recognized as the global leaders in paleontology Filled with illustrations and photographs throughout Includes diagrams to show internal structures of organisms cladograms time scales and events and paleogeographic maps Supplemented with a dedicated website that explores additional enriching information and discussion and which features images for use in visual presentations Cowen s History of Life 6th Edition is an ideal book for undergraduate students taking courses in introductory paleontology as well those on global change and earth systems 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 [A New History of Life](#) Peter Ward,Joe Kirschvink,2020-10-27

**New Perspectives on the History of Life Sciences and Agriculture** Denise Phillips,Sharon Kingsland,2015-02-12 This volume explores problems in the history of science at the intersection of life sciences and agriculture from the mid eighteenth to the mid twentieth century Taking a comparative national perspective the book examines agricultural practices in a broad sense including the practices and disciplines devoted to land management forestry soil science and the improvement and management of crops and livestock The life sciences considered include genetics microbiology ecology entomology forestry and deal with US European Russian Japanese Indonesian Chinese contexts The book shows that the investigation of the border zone of life sciences and agriculture raises many interesting questions about how science develops In particular it challenges one to re examine and take seriously the intimate connection between scientific development and the practical goals of managing and improving perhaps even recreating the living world to serve human ends Without close attention to this zone it is not possible to understand the emergence of new disciplines and transformation of old disciplines to evaluate the role and impact of such major figures of science as Humboldt and Mendel or to appreciate how much of the history of modern biology has been driven by national ambitions and imperialist expansion in competition with rival nations **Reader's Guide to the History of Science** Arne Hessenbruch,2013-12-16 The Reader s Guide to the History of Science looks at the literature of science in some 550 entries on individuals Einstein institutions and disciplines Mathematics general themes Romantic Science and central concepts Paradigm and Fact The history of science is construed widely to include the history of medicine and technology as is reflected in the range of disciplines from which the international team of 200 contributors are drawn [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

*Women in the History of Science* Hannah Wills, Sadie Harrison, Erika Lynn Jones, Farrah Lawrence-Mackey, Rebecca Martin, 2023-03-06 Women in the History of Science brings together primary sources that highlight women's involvement in scientific knowledge production around the world Drawing on texts images and objects each primary source is accompanied by an explanatory text questions to prompt discussion and a bibliography to aid further research Arranged by time period covering 1200 BCE to the twenty first century and across 12 inclusive and far reaching themes this book is an invaluable companion to students and lecturers alike in exploring women's history in the fields of science technology mathematics medicine and culture While women are too often excluded from traditional narratives of the history of science this book centres on the voices and experiences of women across a range of domains of knowledge By questioning our understanding of what science is where it happens and who produces scientific knowledge this book is an aid to liberating the curriculum within schools and universities

*RNA World Hypothesis and the Origin of Life: Astrochemistry Perspective* Ashraf - Ali, André Canosa, David Leisawitz, 2022-09-26

**Relocating the History of Science** Theodore Arabatzis, Jürgen Renn, Ana Simões, 2015-05-19 This volume is put together in honor of a distinguished historian of science Kostas Gavroglu whose work has won international acclaim and has been pivotal in establishing the discipline of history of science in Greece its consolidation in other countries of the European Periphery and the constructive dialogue of these emerging communities with an extended community of international scholars The papers in the volume reflect Gavroglu's broad range of intellectual interests and touch upon significant themes in recent history and philosophy of science They include topics in the history of modern physical sciences science and technology in the European periphery integrated history and philosophy of science historiographical considerations and intersections with the history of mathematics technology and contemporary issues They are authored by eminent scholars whose academic and personal trajectories crossed with Gavroglu's The book will interest historians and philosophers of science and technology alike as well as science studies

scholars and generally readers interested in the role of the sciences in the past in various geographical contexts **Opinion formation : A life history study of the factors that influence the acceptance or rejection of the Big Bang theory and theory of biological evolution among lifelong learners.** Dr Ian S. G. Blagrove,2025-05-23 Abstract This book explores the factors that influence the acceptance or rejection of the Big Bang theory and the theory of biological evolution The rejection of either theory can occur despite the time that has elapsed since the original theories were proposed and their wider acceptance The study critically examines the biographies of individuals establishing the factors that influence their rejection or acceptance of either theory The book concludes that individuals are affected by multiple factors and explores how these findings may contradict other studies which identify religious belief as the driver for rejection The author proposes an original theory of opinion formation that is specific to both scientific theories and suggests the use of inclusive teaching methods and historical narrative within science lessons which may assist in explaining to students the story of discovery of each scientific theory as well as teaching the theory itself The study also concludes that the rejection of both theories particularly by older participants may be linked to past discredited theories including the Steady State theory and the theory of Panspermia **The History and Poetics of Scientific Biography** Thomas Söderqvist,2016-03-03 Biographies of scientists carry an increasingly prominent role in today s publishing climate Traditional historical and sociological accounts of science are complemented by narratives that emphasize the importance of the scientific subject in the production of science Not least is the realization that the role of science in culture is much more accessible when presented through the lives of its practitioners Taken as a genre such biographies play an important role in the public understanding of science In recent years there has been an increasing number of monographs and collections about biography in general and literary biography in particular However biographies of scientists engineers and medical doctors have rarely been the topic of scholarly inquiry As such this volume of essays will be welcomed by those interested in the genre of science biography and who wish to re examine its history foundational problems and theoretical implications Borrowing approaches and methods from cultural studies and the history philosophy and sociology of science the contributions cover a broad range of subjects periods and locations By presenting such a rich diversity of essays the volume is able to chart the reoccurring conceptual problems and devices that have influenced scientific biographies from classical antiquity to the present day In so doing it provides a compelling overview of the history of the genre suggesting that the different valuations given scientific biography over time have been largely fuelled by vested professional interests [The Life and Thought of Herbert Butterfield](#) Michael Bentley,2011-04-21 Once recalled only for The Whig Interpretation of History 1931 and Christianity and History 1949 Sir Herbert Butterfield s contribution to western culture has undergone an astonishing revaluation over the past twenty years What has been left out of this reappraisal is the man himself Yet the force of Butterfield s writings is weakened without some knowledge of the man behind them his temperament contexts and personal torments Previous authors have been unable to

supply a rounded portrait for lack of available material particularly a dearth of sources for the crucial period before the outbreak of war in 1939 Michael Bentley's original startling 2011 biography draws on sources never seen before They enable him to present a new Butterfield one deeply troubled by self doubt driven by an urgent sexuality and plagued by an unending tension between history science and God in a mind as hard and cynical as it was loving and charitable

**History, Memory and Public Life** Anna Maerker, Simon Sleight, Adam Sutcliffe, 2018-07-06 History Memory and Public Life introduces readers to key themes in the study of historical memory and its significance by considering the role of historical expertise and understanding in contemporary public reflection on the past Divided into two parts the book addresses both the theoretical and applied aspects of historical memory studies Approaches to history and memory introduces key methodological and theoretical issues within the field such as postcolonialism sites of memory myths of national origins and questions raised by memorialisation and museum presentation Difficult pasts looks at history and memory in practice through a range of case studies on contested complex or traumatic memories including the Northern Ireland Troubles post apartheid South Africa and the Holocaust Examining the intersection between history and memory from a wide range of perspectives and supported by guidance on further reading and online resources this book is ideal for students of history as well as those working within the broad interdisciplinary field of memory studies

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