



Origin And Evolution Of Life

Henry F. Osborn



Origin And Evolution Of Life:

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.

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 appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant.

Environmental Evolution Lynn Margulis, Clifford Matthews, Aaron Haselton, 2000 Fifteen distinguished scientists discuss the effects of life past and present on planet Earth.

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 co operative 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

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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

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 and Evolution of Life, on the Theory of Action, Reaction and Interaction of Energy Henry Fairfield Osborn,1917 **The Origin and Evolution of Life** Henry Fairfield Osborn,1925 *The Origin and Evolution of Life* Henry Fairfield Osborn,1928 **The Origin and Evolution of Life, on the Theory of Action, Reaction and Interaction of Energy** Henry Fairfield Osborn,2015-06-16 Excerpt from The Origin and Evolution of Life on the Theory of Action Reaction and Interaction of Energy In these lectures we may take some of the initial steps toward an energy conception of Evolution and an energy conception of Heredity and away from the matter and form conceptions which have prevailed for over a century The first half of this volume is therefore devoted to what we know of the capture storage release and reproduction of energy in its simplest and most elementary living phases the second half is devoted to the evolution of matter and form in plants and animals also interpreted largely in terms of energy and mechanics Lest the reader imagine that through the energy conception I am at present even pretending to offer an explanation of the miracles of adaptation and of heredity some of these miracles are recited in the second part of this volume to show that the germ evolution is the most incomprehensible phenomenon which has yet been discovered in the universe for the greater part of what we see in animal and plant forms is only the visible expression of the invisible evolution of the heredity germ We are not ready for a clearly developed energy conception of the origin of life still less of evolution and of heredity yet we believe our theory of the actions reactions and interactions of living energy will prove to be a step in the right direction About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books Find more at www.forgottenbooks.com This book is a reproduction of an important historical work Forgotten Books uses state of the art technology to digitally reconstruct the work preserving the original format whilst repairing imperfections present in the aged copy In rare cases an imperfection in the original such as a blemish or missing page may be replicated in our edition We do however repair the vast majority of imperfections successfully any imperfections that remain are intentionally left to preserve the state of such historical works

The Book of Life Stephen Jay Gould,2001 The Book of Life builds a bridge of knowledge bringing the frontiers of science and what we know of life s history to all of us who wish to come closer to our beginnings and know more of who we are BOOK JACKET **The Origin and Evolution of Life** Henry F. Osborn,2014-03 This Is A New Release Of The Original 1917 Edition **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 and Evolution of Life - Scholar's Choice Edition Henry Fairfield Osborn, 2015-02-20 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 was reproduced from the original artifact and remains as true to the original work as possible Therefore you will see the original copyright references library stamps as most of these works have been housed in our most important libraries around the world and other notations in the work 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 As a reproduction of a historical artifact this work may contain missing or blurred pages poor pictures errant marks etc Scholars believe and we concur that this work is important enough to be preserved reproduced and made generally available to the public We appreciate your support of the preservation process and thank you for being an important part of keeping this knowledge alive and relevant **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 the 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 *Origins and Evolution of Life* , 2011 Devoted to exploring questions about the origin and evolution of life in our Universe this highly interdisciplinary book brings together a broad array of scientists Thirty chapters assembled in eight major sections convey the knowledge accumulated and the richness of the debates generated by this challenging theme The text explores the latest research on the conditions and processes that led to the emergence of life on Earth and by extension perhaps on other planetary bodies Diverse sources of knowledge are integrated from astronomical

and geophysical data to the role of water the origin of minimal life properties and the oldest traces of biological activity on our planet This text will not only appeal to graduate students but to the large body of scientists interested in the challenges presented by the origin of life its evolution and its possible existence beyond Earth **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 of Life** John Desmond Bernal,1967

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