

Search for the Universal Ancestors

The Origins of Life

Edited by H. Hartman, J.G. Lawless, and P. Morrison



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NASA, J. G. Lawless



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Search for the Universal Ancestors H. Hartman,1985 **Search for the Universal Ancestors** H. Hartman,James G. Lawless,Philip Morrison,1987-01-01 **Search for the Universal Ancestors** ,1987 **Informational Biopolymers of Genes and Gene Expression** R.D. Blake,2005-03-23 This new text examines thebiophysics and biochemistry of nucleic acids and proteins carving outthe dynamic interface between chemistry and molecular biology and providing adetailed picture of nucleic acids and proteins their structures biologicalproperties and origins and evolution **Origins of Life Volume II** Vladivoj Valkovic,2024-09-27 In Origins of Life Volume II life and its origin are inspected from traditional and unexpected points of view The book takes an interdisciplinary approach discussing astrobiology chemical evolution and how the Universe accommodates life molecular biology and philosophy It is an open minded approach fully referenced throughout and each chapter includes a further reading section for anyone wishing to learn more about that perspective on the origins of life First everything started with the Big Bang from nothing It appears now that everything was aiming toward our existence some 13 75 109 years later being capable of understanding it all We did it using powerful tools science philosophy and religion Although we appreciate the contributions made by philosophy and religion our contemplations and doubts are based on the plentiful scientific evidence provided The reader will be guided from make up of the life stage Universe tools and materials needed for the living matter to be formed in the small part of the Universe which one could call Human Neighborhood or the Local Universe It contains galaxies galaxy clusters and voids and the Milky Way and its satellites influencing each other during this time span The book is easy to read accompanied by numerous references it could be of use to the expert in the field as well as for curious minds with a scientific philosophical or religious background U.S. Government Books ,1985

Our Cosmic Origins A. H. Delsemme,1998 Our Cosmic Origins first published in 1998 traces the remarkable story of the emergence of life and intelligence right through the complex evolutionary history of the Universe Armand Delsemme weaves together a rich tapestry of science bringing together cosmology astronomy geology biochemistry and biology in this wide ranging book In following the complex chronological story we discover how the first elements formed in the early Universe how stars and planets were born how the first bacteria evolved towards a plethora of plants and animals and how the coupling of the eye and brain led to the development of self awareness and ultimately intelligence Professor Delsemme concludes with the tantalising suggestion that the existence of alien life and intelligence is likely and examines our chances of contacting it This provocative book provides the general reader with an accessible and wide ranging account of how life evolved on Earth and how likely it is to exist elsewhere in the Universe **The Scientist** ,1987 **Microbial Diversity** Oladele Ogunseitan,2008-04-15 This book offers the first comprehensive in depth treatment of microbial diversity for undergraduate and graduate students Using a global approach Microbial Diversity illustrates the impact of microorganisms on ecological and Earth system phenomena Accompanied by a devoted website with resources for both instructors and

students www.blackwellpublishing.com/ogunseitan Uses key ecological and global phenomena to show the continuity of microbial contribution Illustrates the importance of microbial diversity for the understanding of global physiochemical and biological processes Presents analyses of microscopic culture molecular and phylogenetic systematic methods Shows the relevance of microbial diversity to global environmental problems such as climate change and ozone depletion Features numerous illustrations including over 60 4 color photographs of microbes The Sex Imperative Kenneth E.

Maxwell,2013-11-11 The sex imperative the irresistible impulse to engage in sexual relations has enabled animals to share their genes and evolve Maxwell traces the progress of sex from the simple sharing of genes between cells to the elaborate courtship rituals that developed so sperm could merge with egg In the effort to join sperm and egg species have developed some astounding and unusual sexual adaptations As Maxwell vividly describes the sex lives of various creatures he attests to the resiliency and amazing adaptability of life to its everchanging environment By focusing on the diversity of animal sexual relationships Maxwell enables us to question the very basis of sexuality What is sex Why did it evolve How does sexuality and survival shape the social behavior of animals and humans The sex imperative is indeed the driving force behind Darwin s theory of random variation and natural selection better known as survival of the fittest Maxwell goes so far as to investigate our latest accomplishment in the science of begetting offspring genetic engineering This awe inspiring and unique work celebrates the power and wonder of life and sexuality of all creatures including humans After reading this engrossing and illuminating work no one will ever think of evolution in the same way Jacket **Search for the Universal Ancestors**

NASA,J. G. Lawless,2005 CONTENTS LIST OF CONTRIBUTORS PROLOGUE I TOWARD THE ORIGINS OF LIFE A Definition of Life Life on a Tape The Localization of Order The Chemistry of Life Why Carbon What Else Water Suggestions for Further Reading II THE ORIGINS OF LIFE A BRIEF HISTORY OF THE SEARCH The Early Questioners The Evolutionary Synthesis The Experimental Era Origins Enter the Laboratory The Space Age Suggestions for Further Reading III THE TWO RECORDS IN THE ROCKS AND IN THE CELL The Age of the Earth Visible Traces in the Rocks The Carbon Chemistry of Ancient Rocks An Opportunity The Record in Living Forms The Kingdoms of Life Suggestions for Further Reading IV THE NATURAL EVIDENCE The Birth of the Solar System Comets and Meteorites Comparative Planetology Ancient Atmospheres The Ancient Surfaces Suggestions for Further Reading V THE LABORATORY EXPERIENCE Introduction Extraterrestrial Evidence The Experimental Era Inorganic Aspects Polypeptides Polynucleotides and the Beginnings of Natural Selection Membranes Suggestions for Further Reading VI RECOMMENDATIONS Introduction Solar System The Earth The Cell Chemical Evolution Models for Early Life Forms The Replication of Surface Patterns An Alternative Entry for Life Summary Next Organizational Steps APPENDIX MOLECULAR STRUCTURES OF IMPORTANT BIOLOGICAL COMPOUNDS **WHERE WHEN AND HOW ANCESTRAL (LUCA) TO ALL LIFE ORIGINATED** Jagjit Singh

Rawat,2021-12-06 The book is all about the living beings All living beings including humans have originated and evolved from

the Last Universal Common Ancestor LUCA that was possible as a result of spontaneous step by step chemical origin in about 3 750 billion years ago from the elements consisting of life body such as nitrogen bases adenine thymine cytosine guanine and uracil which are made up off the elements C H O N and ribose sugar This life originated in the sediments of the palaeo floodplains at the palaeo mouths of fresh water flows rivers on the Hadean surface in the Archaean Eon This was a global phenomenon The life on the rocky planet like our Earth was possible because of existence of fresh water bodies over minerals metals and clay deposits which rested on Hadean surface and active geological processes and active environments The book also makes an attempt to explain as to how do the simple elements like C H O N S and P first change to simple chemistry H₂ O NH₃ followed by CH₄ HCN and monomers monosaccharides amino acids glycerol s fatty acids nucleotides and polymers carbohydrates proteins lipids and nucleic acids There was not much development for about 3210 million years from 3750 million years to 540 million years and suddenly changed jumped to complex life forms in about 541 million years ago Here the life originated and evolved without head and heart from 3750 million years ago to 522 million years ago i e for about 3228 million years The head was originated and evolved in about 521million years ago However consciousness emerged along with bonding of carbon with hydrogen and other elements which were finally converted into nucleosides having nitrogenous base and ribose sugar The gravity and gravitational force intertwined with electromagnetic force were the reason there were bonding of carbon and hydrogen and other elements to originate and evolve LUCA which stayed away from thermodynamic equilibrium *Whitaker's Book List* ,1987 *Ways of Being* James Bridle,2022-06-21 Artist technologist and philosopher James Bridle s *Ways of Being* is a brilliant searching exploration of different kinds of intelligence plant animal human artificial and how they transform our understanding of humans place in the cosmos What does it mean to be intelligent Is it something unique to humans or shared with other beings beings of flesh wood stone and silicon The last few years have seen rapid advances in artificial intelligence But rather than a friend or companion AI increasingly appears to be something stranger than we ever imagined an alien invention that threatens to decenter and supplant us At the same time we re only just becoming aware of the other intelligences that have been with us all along even if we ve failed to recognize or acknowledge them These others the animals plants and natural systems that surround us are slowly revealing their complexity agency and knowledge just as the technologies we ve built to sustain ourselves are threatening to cause their extinction and ours What can we learn from them and how can we change ourselves our technologies our societies and our politics to live better and more equitably with one another and the nonhuman world The artist and maverick thinker James Bridle draws on biology and physics computation literature art and philosophy to answer these unsettling questions Startling and bold *Ways of Being* explores the fascinating strange and multitudinous forms of knowing doing and being that make up the world and that are essential for our survival Includes illustrations

Astrobiology Akihiko Yamagishi,Takeshi Kakegawa,Tomohiro Usui,2019-02-27 This book provides concise and cutting

edge reviews in astrobiology a young and still emerging multidisciplinary field of science that addresses the fundamental questions of how life originated and diversified on Earth whether life exists beyond Earth and what is the future for life on Earth Readers will find coverage of the latest understanding of a wide range of fascinating topics including for example solar system formation the origins of life the history of Earth as revealed by geology the evolution of intelligence on Earth the implications of genome data insights from extremophile research and the possible existence of life on other planets within and beyond the solar system Each chapter contains a brief summary of the current status of the topic under discussion sufficient references to enable more detailed study and descriptions of recent findings and forthcoming missions or anticipated research Written by leading experts in astronomy planetary science geoscience chemistry biology and physics this insightful and thought provoking book will appeal to all students and scientists who are interested in life and space

The Ancestor's Tale Richard Dawkins, Yan Wong, 2010-12-16 One of the most brilliant scientists of our age gives us his definitive work a synthesis of his comprehensive vision of life THE ANCESTOR S TALE is a pilgrimage back through time a journey on which we meet up with fellow pilgrims as we and they converge on our common ancestors Chimpanzees join us at about 6 million years in the past orang utans at 14 million years as we stride on together a growing band The journey provides the setting for a collection of some 40 tales Each explores an aspect of evolutionary biology through the stories of characters met along the way The tales are interspersed with prologues detailing the journey route maps showing joining lineages and life like reconstructions of our common ancestors THE ANCESTOR S TALE represents a pilgrimage on an unimaginable scale our goal is four billion years away and the number of pilgrims joining us grows vast ultimately encompassing all living creatures At the end of the journey lies something remarkable in its simplicity and transformative power the first humble replicating molecules *National Aeronautics and Space Administration (NASA) C. V.*

Anderson, 2002 National Aeronautics Space Administration Nasa Background Issues Bibliography **Biological and Medical Research in Space** David Moore, Peter Bie, Heinz Oser, 2012-12-06 Life Science studies in space were initially driven by the need to explore how man could survive spaceflight conditions the effects of being launched under high accelerations exposed to weightlessness and radiation for different periods of time and returned to Earth in safety In order to substantiate the detailed knowledge of potentially adverse effects many model experiments were launched using organisms which ranged from bacteria plants invertebrates rodents and primates through to man Although no immediate life threatening effects were found these experiments can be considered today as the precursors to life science research in space Many unexplained effects on these life forms were attributed to the condition of weightlessness Most of them were poorly recorded poorly published or left simply with anecdotal information Only with the advent of Skylab and later Spacelab did the idea emerge and indeed the infrastructure permit weightlessness to be considered as an extended tool for research into some fundamental mechanisms or processes associated with the effect of gravity on organisms at all levels The initial hy

pothesis to extrapolate from hypergravity through 1 x g to near 0 x g effects could no longer be retained since many of the experiment results were seen to contradict the models or theories in the current textbooks of biology and physiology The past decade has been dedicated primarily to exploratory research *NASA Technical Memorandum* ,1987 **Are Souls Real?**

Jerome W. Elbert,2010-05-04 In an age dominated by science many traditional concepts are being reevaluated in light of current knowledge about the physical and biological world Among the many religious notions passed down from generation to generation belief in the soul may be the most in need of reconsideration Despite its slightly antiquated nuances and its fuzziness as a coherent idea people today still refer to the soul quite frequently We often hear such questions as Can the soul leave the body Does the soul survive death And if so do the souls of the departed occasionally appear to the living But given what we now know about the brain psychology and body chemistry the skeptic may well ask what meaning or relevance can this medieval term possibly have Physicist Jerome W Elbert takes up this intriguing issue in this informative yet accessible study He begins by reviewing the ancient origins of the soul concept looks at Christian beliefs and pagan parallels and then considers how the advance of science has changed our fundamental understanding of the brain and consciousness These new scientific insights he points out inevitably affect our traditional ideas about the soul Moreover many contemporary dilemmas have much to do with whether or not we posit the existence of a soul for example the question of free will and the debate over abortion Taking into consideration the views of many recognized experts he moves to the inescapable conclusion that we can account for the nature of life the mind and the human decision making process without any need for the now obsolete idea of a soul Insightful and absorbing *Are Souls Real* is popular science writing at its best Jerome W Elbert Ph D Tacoma WA now a self employed researcher and writer worked for many years as a research professor of physics at the University of Utah

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