Lluis Ribas de Pouplana

The Genetic Code and the Origin of Life





Genetic Code And The Origin Of Life

Joseph Seckbach

Genetic Code And The Origin Of Life:

The Genetic Code and the Origin of Life Lluis Ribas de Pouplana, 2007-04-03 Early Thoughts on RNA and the Origin of Life The full impact of the essential role of the nucleic acids in biological systems was forcefully demonstrated by the research community in the 1950s Although Avery and his collaborators had identified DNA as the genetic material responsible for the transformation of bacteria in 1944 it was not until the early 1950s that the Hershey Chase experiments provided a more direct demonstration of this role Finally the structural DNA double helix proposed by Watson and Crick in 1953 clearly created a structural frame work for the role of DNA as both information carrier and as a molecule that could undergo the necessary replication needed for daughter cells Research continued by Kornberg and his colleagues in the mid 1950s emphasized the biochemistry and enzymology of DNA replication At the same time there was a growing interest in the role of RNA The 1956 dis covery by David Davies and myself showed that polyadenylic acid and polyuridylic acid could form a double helical RNA molecule but that it differed somewhat from DN A A large number of experiments were subsequently carried out with synthetic polyribonucleotides which illustrated that RNA could form even more complicated helical structures in which the specificity of hydrogen bonding was the key element in determining the molecular conformation Finally in I960 1 could show that it was possible to make a hybrid helix The Genetic Mechanism and the Origin of Life Lawrence Dillon, 2012-12-06 As shown in the text there can be little doubt that the genetic mechanism is for all practical purposes equivalent to life itself Consequently it is unrealistic to seek knowledge of the origin of life and its subsequent evolution without si multaneously searching for an understanding of how this apparatus arose and evolved Fortunately the annual publication over the recent years of thousandS of papers dealing with the genetic processes has brought the state of knowledge to a level where a synthesis of their major details in relation to life s history is feasible Because of the voluminous body of literature no single book can pos sibly treat all the ramifications of this fundamental subject subdivision into multiple volumes is necessary. This volume the first of a trilogy explores the molecular aspects of the problem in connection with the precellular aspects up to the point of the origin of the cell The second currently in progress is con cerned with the subsequent evolution of the cell as revealed by the energy related organelles and their genetic apparatuses and by ultrastructural details of other cellular parts The third volume as presently planned deals with devel opmental immunological and other complexities at the organismic level and in so doing throws additional light on basic properties of the genetic processes themselves Thus the genetic apparatus provides the warp and evolution the woof of the intricate fabric that The Genetic Code and the Origin of Life Jorge R. (NA) Oksenberg, Llui's Ribas de Pouplana, 2002-01-01 emerges

Towards Revealing the Origin of Life Kenji Ikehara,2021-06-07 The origin of life has been investigated by many researchers from various research fields such as Geology Geochemistry Physics Chemistry Molecular Biology Astronomy and so on Nevertheless the origin of life remains unsolved One of the reasons for this could be attributed to the different

approaches that researchers have used to understand the events that happened on the primitive Earth The origins of the main three members of the fundamental life system as gene genetic code and protein could be only separately understood with these approaches Therefore it is necessary to understand the origins of gene the genetic code tRNA metabolism cell structure and protein not separately but comprehensively under a common concept in order to understand the origin of life because the six members are intimately related to each other In this monograph the author offers a comprehensive hypothesis to explain the origin of life under a common concept At the same time the author offers the GADV hypothesis contrasting it with other current hypotheses and discusses the results of analyses of genes proteins and the experimental data available in the exploration of the current knowledge in the field This book is of interest for science students researchers and the general public interested in the origin of life Origin of Life via Archaea Richard Gordon, 2024-10-01 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 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 Chemical Evolution and the Origin of Life Horst Rauchfuss, 2008-10-15 How did life begin on the early Earth We know that life today is driven by the universal laws of chemistry and physics By applying these laws over the past fty years en mous progress has been made in understanding the molecular mechanisms that are the foundations of the living state For instance just a decade ago the rst human genome was published all three billion base pairs Using X ray diffraction data from crystals we can see how an enzyme molecule or a photosynthetic reaction center steps through its catalytic function We can even visualize a ribosome central to all life translate netic information into a protein And we are just beginning to understand how molecular interactions regulate thousands of simultaneous reactions that continuously occur even in the simplest forms of life New words have appeared that give a sense of this wealth of knowledge The genome the proteome the metabolome the interactome But we can t be too smug We must avoid the mistake of the physicist who as the twentieth century began stated con dently that we knew all there was to know about physics that science just needed to clean up a few dusty corners Then came relativity quantum theory the Big Bang and now dark matter dark energy and string theory Similarly in the life sciences the more we learn the better we understand how little we really know There remains a vast landscape to explore with great questions remaining Origin of Life Jerry Darson, To understand the origin of life we must begin long before Earth itself existed with the birth of the universe The story starts nearly 13 8 billion years ago with the Big Bang a cosmic event that marked the beginning of time and space In its aftermath the universe was a seething mass of energy and fundamental particles As it expanded and cooled these particles combined to form hydrogen and helium the simplest elements and the primary building blocks for stars Over hundreds of millions of years gravity gathered these gases into massive clouds that collapsed under their own weight to form stars Within these stellar furnaces nuclear fusion gave rise to heavier elements like carbon nitrogen oxygen and iron the essential ingredients for life When massive stars exhausted their fuel they exploded as supernovae scattering these life enabling elements across the cosmos These cosmic events seeded the interstellar medium with the raw materials from which new stars and planetary systems would emerge Around 4 6 billion years ago in a relatively quiet corner of the Milky Way one such cloud of gas and dust began to collapse From this swirling disk our Sun was born at its center while the remaining material coalesced into planets moons asteroids and comets Among these was Earth a rocky planet positioned at just the right distance from the Sun to allow liquid water a crucial component for life as we know it Cosmochemical Evolution and the Origins of Life J. Oró, S. L. Miller, C. Ponnamperuma, R. S. Young, 2013-04-17 This publication in two volumes includes most of the scientific papers presented at the first meeting of the International Society for the Study of the Origin of Life ISSOL held on June 25 28 1973

in Barcelona Spain The first volume contains the invited articles and the second volume the contributed papers which also appear in the 1974 and 1975 issues respectively of the new journal Origins of Life published by D Reidel A relatively large number of meetings on the subject of the origin of life have been held in different places since 1957 In terms of its organization scope and number and nationality of participants the Conference celebrated last year in Barcelona closely followed the three international conferences held earlier in Moscow U S S R 1957 Wakulla Springs U S A 1963 and Pont a Mousson France 1970 For this reason the first ISSOL meeting was also named the 4th International Conference on the Origin of Life Information Theory, Evolution, and the Origin of Life Hubert P. Yockey, 2005-04-18 Publisher Description

The Origin of Life and Evolutionary Biochemistry K. Dose, 2012-12-06 Historical Introduction A I Oparin and the Origin of Life Chapters in Honor of Proiskhozhdenie Zhizni and A I Oparin Protein Structure and the Molecular Evolution of Biological Energy Conversion Condensation Reactions of Lysine in the Presence of Polyadenylic Acid Considerations of the Origin of Spontaneous Mutations Pre Enzymic Emergence of Biochemical Metabolism The Methods of Science and the Origins of Life Phospholipid Monolayers As a Prototype of Biological Membranes Peptides and Amino Acids in the Primordial Hydrosphere Amino Acids and Carbohydrates in Precambria From Stardust to First Cells Sankar Chatterjee, 2023-09-20 This book presents a groundbreaking hypothesis to answer one of the greatest scientific mysteries How did life begin Like a detective piecing together seemingly disparate bits of evidence Dr Sankar Chatterjee combines the most recent discoveries in cosmology geology chemistry information systems and biology weaving a vast tapestry from the threads of current research Dr Chatterjee convincingly argues that the odyssey of life first began when the fundamental building blocks were brought to Earth by meteorites These cosmic compounds concentrated and simmered like a soup in hydrothermal crater caldrons Through a system of subterranean vent networks a biosynthetic rich variety of organic compounds mixed and matched into a recipe of rich biomolecules guided by prebiotic information systems Through symbiosis these complex biopolymers gradually assemble into membrane bound protocells At each stage of this evolutionary progression through natural selection they refined with increasing stability and complexity ultimately leading to the emergence of the first cells about four billion years ago In this book Dr Chatterjee tells this story in rigorous detail in language that is both accessible **Creating Life in the Lab** Fazale Rana, 2011-02-01 Each year brings to light new scientific discoveries that and engaging have the power to either test our faith or strengthen it most recently the news that scientists have created artificial life forms in the laboratory If humans can create life what does that mean for the creation story found in Scripture Biochemist and Christian apologist Fazale Rana for one isn t worried In Creating Life in the Lab he details the fascinating quest for synthetic life and argues convincingly that when scientists succeed in creating life in the lab they will unwittingly undermine the evolutionary explanation for the origin of life demonstrating instead that undirected chemical processes cannot produce a living entity Microbiology Australia ,2004-03 Genesis - In The Beginning Joseph Seckbach, 2012-03-21 Genesis In

The Beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where hot or cold sources and when the beginning of Life took place Among the sections are chapters dealing with prebiotic chemical processes and considering self replication of polymers in mineral habitats One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life This volume covers the role of symmetry information and order homochrial biomolecules in the beginning of Life The models of protocells and the genetic code with gene transfer are important topics in this volume Three chapters discuss the Panspermia hypothesis to answer Are we from outer Space Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere and its connection to Earth We conclude with the history and frontiers of Astrobiogy and the Origin of Life Alexander Graham Cairns-Smith, 1986-12-18 This volume is the edited proceedings of a conference seeking to clarify the possible role of clays in the origin of life on Earth At the heart of the problem of the origin of life lie fundamental questions such as What kind of properties is a model of a primitive living system required to exhibit and what would its most plausible chemical and molecular makeup be Answers to these questions have traditionally been sought in terms of properties that are held to be common to all contemporary organisms However there are a number of different ideas both on the nature and on the evolutionary priority of common vital properties notably those based on protoplasmic biochemical and genetic theories of life This is therefore the first area for consideration in this volume and the contributors then examine to what extent the properties of clay match those required by the substance which acted as the template for life

Phosphorus Chemistry Yufen Zhao, Yan Liu, Xiang Gao, Pengxiang Xu, 2018-12-17 The book is the first thorough study of the role of phosphorus chemistry in the origin of life This book starts with depiction of the phosphorus role in life creation and evolution Then it outlines in vital processes how different phosphorus containing compounds participate as biomarker in life evolution Written by renowned scientists it is suitable for researchers and students in organic phosphorus chemistry and biochemistry *From Suns to Life: A Chronological Approach to the History of Life on Earth* Muriel Gargaud, Philippe Claeys, Purificación López-García, Hervé Martin, Thierry Montmerle, Robert Pascal, Jacques Reisse, 2007-07-05 This review emerged from several interdisciplinary meetings and schools gathering a group of astronomers geologists biologists and chemists attempting to share their specialized knowledge around a common question how did life emerge on Earth Their ultimate goal was to provide some kind of answer as a prerequisite to an even more demanding question is life universal The resulting state of the art articles were written by twenty five scientists telling a not so linear story but on the contrary highlighting problems gaps and controversies Needless to say this approach yielded no definitive answers to both questions However by adopting a chronological approach to the question of the emergence of life on Earth the only place where we know for sure that life exists it was possible to break down this question into several sub topics that can be addressed by the different disciplines The main chapters of this review present the formation and evolution of the solar system 3 the building

of a habitable planet 4 prebiotic chemistry biochemistry and the emergence of life 5 the environmental context of the early Earth 6 and the ancient fossil record and early evolution 7 The concluding chapter 9 provides the highlights of the review and presents the different points of view about the universality of life Two pedagogical chapters are included one on chronometers 2 another in the form of a frieze 8 which summarizes in graphical form the present state of knowledge about the chronology of the emergence of life on Earth before the Cambrian explosion **Origins of Life: The Primal Self-Organization** Richard Egel, Dirk-Henner Lankenau, Armen Y. Mulkidjanian, 2011-08-31 If theoretical physicists can seriously entertain canonical standard models even for the big bang generation of the entire universe why cannot life scientists reach a consensus on how life has emerged and settled on this planet Scientists are hindered by conceptual gaps between bottom up inferences from early Earth geological conditions and top down extrapolations from modern life forms to common ancestral states This book challenges several widely held assumptions and argues for alternative approaches instead Primal syntheses literally or figuratively speaking are called for in at least five major areas 1 The first RNA like molecules may have been selected by solar light as being exceptionally photostable 2 Photosynthetically active minerals and reduced phosphorus compounds could have efficiently coupled the persistent natural energy flows to the primordial metabolism 3 Stochastic uncoded peptides may have kick started an ever tightening co evolution of proteins and nucleic acids 4 The living fossils from the primeval RNA World thrive within modern cells 5 From the inherently complex protocellular associations preceding the consolidation of integral genomes eukaryotic cell organization may have evolved more naturally than simple prokaryote like life forms If this book can motivate dedicated researchers to further explore the alternative mechanisms presented it will have served its purpose well The Cell's Design (Reasons to Believe) Fazale Rana, 2008-06-01 Armed with cutting edge techniques biochemists have unwittingly uncovered startling molecular features inside the cell that compel only one possible conclusion a supernatural agent must be responsible for life Destined to be a landmark apologetic work The Cell s Design explores the full scientific and theological impact of these discoveries Instead of focusing on the inability of natural processes to generate life s chemical systems as nearly all apologetics works do Fazale Rana makes a positive case for life s supernatural basis by highlighting the many biochemical features that reflect the Creator's hallmark signature This breakthrough work extends the case for design beyond irreducible complexity These never before discussed evidences for design will evoke awe and amazement at God s creative majesty in the remarkable elegance of the cell s chemistry

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