THE PHOTOCHEMICAL ORIGIN OF LIFE

by A. Dauvillier

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Photochemical Origin Of Life

Stoyan K. Smoukov,Joseph Seckbach,Richard Gordon

Photochemical Origin Of Life:

The Photochemical Origin of Life Alexandre Dauvillier,1965 **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 lSSOL 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 **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

Marine Hydrothermal Systems and the Origin of Life N.G. Holm,2012-12-06 Research of the origins of life in connection with a marine environment started at the end of the seventies when the black smokers in the Pacific were discovered and the Red Sea deep hydrothermal brines were found to be a fruitful environment for abiotic synthesis of life precursors For a while this research was categorised under the heading chemistry but in less than a decade the topic became fully integrated into the science of oceanography The Scientific Committee on Oceanographic Research SCOR initiated

Working Group 91 Chemical Evolution and Origin of Life in Marine Hydrothermal Systems This volume contains the final report of this working group *Origin of Life* Y. Wolman,2012-12-06 This volume is a record of the 6th International Conference on the Origins of Life and the 3rd Meeting of the International Society for the Study of the Origins of Life The conference was held under the auspices of the Israel Academy of Sciences and Humanities at Jerusalem from June 22nd to June 27th 1980 A few weeks prior to the conference Academician Aleksander Ivanovich Oparin passed away Oparin the father and founder of the study of the origins of life proposed over 50 years ago that modern biological molecules had abidogical origins in the past thus the beginning of life on Earth was preceded by a long period of abiogenic molecular evolution Oparin was planning to report on his latest work in the opening session of the meeting Natural Selection A Leading Factor in Transition from the Non Living Matter to Life This lecture will never be delivered In Hebrew we say of those who have died may their memory be bound with the bonds of eternal life For Aleksander Ivanovich Oparin those words have particular significance for surely his pioneering work will endure as long as the spirit of scientific enquiry prevails This meeting was dedicated to the memory of Aleksander Ivanovich Oparin Chemical Evolution: Origin Of Life Julian Chela-Flores, PhD,Cyril Ponnamperuma, PhD,1992-12-31 This book addresses some important open questions in this interdisciplinary field of research In spite of its broad scope ranging from the earliest evidence of life on earth to the search for extraterrestrial intelligence the main focus is on chemical evolution Once the macromolecules of life were formed the evolution of the earliest life forms enhanced the importance of chirality This led to the highly asymmetric environment of the macromolecules of the living cell the hallmark of life itself The subject of chirality in particular is discussed in depth the status of the weak force as the only true chiral influence is presented A substantial number of papers review both the theoretical as well as the experimental basis of the origin of biochirality A second broad area discussed in detail is the RNA world Some successes of this hypothesis are highlighted the hierarchy of previous evolutionary stages leading to the origin of life such as the pyrophosphate world are considered The question is raised whether useful hints may still be inferred from molecular fossils existing in contemporary cells Contents The Origin Evolution and Distribution of Life in the Universe C Ponnamperuma Chemical Origin and Early Evolution of Biological Energy Conversion H Baltscheffsky Phosphate in Models for Chemical Evolution G Arrhenius B Gedulin and Mojzsis Evolution in an RNA World P Schuster Small Pathogenic RNAs of Plants Living Fossils of the RNA World T O Diener The Weak Force and the Origin of Life A J MacDermott The Origin of Chirality the Role of Phase Transitions and Their Induction in Amino Acids A Salam Spontaneous Regulating Mechanisms That May Have Led to the Origin of Life J Chela Flores Chirality and the Origin of Life R Navarro Gonzalez R K Khanna and C Ponnamperuma Search for Phase Transitions Changing Molecular Chirality A Figureau E Duval and A Boukenter Theoretical and Experimental Studies on the Possibility of Chirality Dependent Time Direction in Molecules A S Garay Extraterrestrial Intelligences J Heidmann Discussion Sessions Biochemical Markers in Precambian Sediments Indian Subcontinent S S Rane

A V Patankar M S Chadha B Udayraj and S M Naqvi Practicabilities and Limits of Stereospecific Autocatalysis An Experimental Approach T Buhse W Thiemann D Lavabre and J C Micheau Ionizing Radiation and Chemical Processing of Waters on Early Earth I G Draganic and S I Vujosevic Chemical Effects of Ionizing Radiation and Sonic Energy in the Context of Chemical Evolution A Negron Mendoza and G Albarran Differences in Radiolysis Behavior of D L Amino Acid in Primary Stage and Thermodynamic Equilibrium State W Q Wang J L Wu and J Jiang Experimental Searches for the Origin of Biomolecular Asymmetry L Keszthelyi True and False Chirality L D Barron Chiral Interaction and Biomolecular Evolution G Gilat Chiral Forces and Molecular Dissymmetry R Mohan Viroids and Viruses at the Origin of Organized Life L J Boya and P Boya The Role of Neoteny and Sociogenesis in the Evolution of Cell Structure V J A Novak **Biochemical origin of life** Herbert Schriefers,Margarete Rehm,1976 **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 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 emerges *Cosmochemical Evolution and the Origins of Life* John Oró,S.L. Miller,Cyril Ponnamperuma,2012-12-06 Proceedings of the Fourth International Conference on the Origin of Life and the First Meeting of the International Society for the Study of the Origin of Life ISSOL Barcelona June 25 28 1973 Vol II Contributed Papers Origin of Chirality in the Molecules of Life Albert Guijarro,2022-06-10 This book provides an interdisciplinary review of one of the great unsolved mysteries that has fascinated scientists for over 150 years the origin of chirality in biomolecules Current advances in fields as diverse as space exploration prebiotic chemistry and high energy physics may help to provide an answer Important pieces of information will come from observations at the two frontiers of science outer space and the subatomic world Observation of distant planets galaxies and even actual sampling of celestial objects from beyond the solar system are projects currently underway At the other end of the spectrum there are experiments that study the elemental properties of matter such as symmetry and interactions with the fundamental forces Completely revised and updated this new edition once again unifies all the theories of the origin of biomolecular homochirality together in a single source This complete interdisciplinary review of an intriguing subject condenses a large and disparate range of contributions from journals in almost every scientific field The various theories have been organized interrelated and explained in a unified way It is fundamental comprehensive and structured to be accessible for educational purposes **Cosmochemical Evolution and the Origins of Life: Invited papers** J. Oró,1974 Exobiology: Matter, Energy, and Information in the Origin and Evolution of Life in the Universe Julian Chela-Flores,François Raulin,2012-12-06 Leading researchers in the area of the origin evolution and distribution of life in the universe contributed to Exobiology Matter Energy and Information in the Origin and Evolution of Life in the Universe This volume provides a review of this interdisciplinary field In 50 chapters many aspects that contribute to exobiology are reviewed by 90 authors These include historical perspective of biological evolution cultural aspects of exobiology cosmic chemical and biological evolution molecular biology geochronology biogeochemistry biogeology and planetology Some of the current missions are discussed Other subjects in the frontier of exobiology are reviewed such as the search for planets outside the solar system and the possible manifestation of intelligence in those new potential environments The SETI research effort is well represented in this general overview of exobiology This book is the proceedings of the Fifth Trieste Conference on Chemical Evolution that

took place in September 1997 The volume is dedicated to the memory of Nobel Laureate Abdus Salam who suggested the initiation of the Trieste conferences on chemical evolution and the origin of life Audience Graduate students and researchers in the many areas of basic earth and life sciences that contribute to the study of chemical evolution and the origin evolution and distribution of life in the universe First Steps in the Origin of Life in the Universe Julian Chela-Flores,Tobias Owen,François Raulin,2011-06-28 Proceedings of the Sixth Trieste Conference on Chemical Evolution Trieste Italy 18 22 September 2000 **The Chemistry of Life's Origins** J. Mayo Greenberg,C.X. Mendoza-Gómez,Valerio Pirronello,2012-12-06 This volume contains the lectures presented at the second course of the International School of Space Chemistry held in Erice Sicily from October 20 30 1991 at the E Majorana Centre for Scientific Culture The course was attended by 58 participants from 13 countries The Chemistry of Life s Origins is well recognized as one of the most critical subjects of modem chemistry Much progress has been made since the amazingly perceptive contributions by Oparin some 70 years ago when he first outlined a possible series of steps starting from simple molecules to basic building blocks and ultimate assembly into simple organisms capable of replicating catalysis and evolution to higher organisms The pioneering experiments of Stanley Miller demonstrated already forty years ago how easy it could have been to form the amino acids which are critical to living organisms However we have since learned and are still learning a great deal more about the primitive conditions on earth which has led us to a rethinking of where and how the condition for prebiotic chemical processes occurred We have also learned a great deal more about the molecular basis for life For instance the existence of DNA was just discovered forty years ago **The Origin of Life on the Earth** A. I. Oparin,A. E. Braunshteĭn,A. G. Pasynskiĭ,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 **Systems Biology** Isidore Rigoutsos,Gregory Stephanopoulos,2006-09-14 The advent of genome sequencing and associated technologies has

transformed biologists ability to measure important classes of molecules and their interactions This expanded cellular view has opened the field to thousands of interactions that previously were outside the researchers reach The processing and interpretation of these new vast quantities of interconnected data call for sophisticated mathematical models and computational methods Systems biology meets this need by combining genomic knowledge with theoretical experimental and computational approaches from a number of traditional scientific disciplines to create a mechanistic explanation of cellular systems and processes Systems Biology I Genomics and Systems Biology II Networks Models and Applications offer a much needed study of genomic principles and their associated networks and models Written for a wide audience each volume presents a timely compendium of essential information that is necessary for a comprehensive study of the subject The chapters in the two volumes reflect the hierarchical nature of systems biology Chapter authors world recognized experts in their fields provide authoritative discussions on a wide range of topics along this hierarchy Volume I explores issues pertaining to genomics that range from prebiotic chemistry to noncoding RNAs Volume II covers an equally wide spectrum from mass spectrometry to embryonic stem cells The two volumes are meant to provide a reliable reference for students and researchers alike **Hearings, Reports and Prints of the House Committee on Science and Astronautics** United States. Congress. House. Committee on Science and Astronautics,1969 1970 NASA Authorization, Hearings... United States. Congress. House Science and Astronautics,1969 *Earth's Early Atmosphere and Oceans, and The Origin of Life* George H. Shaw,2015-10-07 This book provides a comprehensive treatment of the chemical nature of the Earth s early surface environment and how that led to the origin of life This includes a detailed discussion of the likely process by which life emerged using as much quantitative information as possible The emergence of life and the prior surface conditions of the Earth have implications for the evolution of Earth s surface environment over the following 2 2 5 billion years The last part of the book discusses how these changes took place and the evidence from the geologic record that supports this particular version of early and evolving conditions

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