

CHEMICAL EVOLUTION

STEPHEN F. MASON



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Chemistry in Britain

Chemical Evolution Origin Of The Elements Molecules And Living Systems

**Ivano Bertini, Harry B. Gray, Edward
Stiefel, Joan Valentine**



Chemical Evolution Origin Of The Elements Molecules And Living Systems:

Chemical Evolution. Origin of the Elements, Molecules, and Living Systems.[Mit Fig., Diagr. U. Tab.] Stephen Finney Mason,1991 *Chemical Evolution* Stephen Finney Mason,1992 Recent accounts of the chemical history of the universe have tended to emphasize either the inorganic or the organic aspects of chemical evolution looking for example at the nucleosynthesis of the chemical elements on the one hand or the origin and development of living organisms on the other This book takes the chemistry as the central science of all materials inorganic and organic at the molecular level and brings together both aspects in a clear account of the development of ideas of chemical evolution This fascinating survey covers the generation of the light chemical elements in the Big Bang their transformation into heavier elements in the stars the origin of the solar system and the molecular evolution of minerals and organisms on the earth Spanning the range from nuclear chemistry and radioactivity through mineral and organic chemistry to biochemistry and molecular biology it adopts a historical approach to show how recent research has modified and extended earlier conclusions and conjectures The book is essential reading for all those interested in the development of scientific ideas on the origins of the universe chemical matter and life on earth **Chemical Evolution: Origin Of Life** Julian Chela-Flores, PhD, Cyril Ponnampereuma, 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 Ponnampereuma 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 Ponnampereuma 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 Precambrian 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 Chemical Evolution: Structure and Model of the First Cell Cyril

Ponnamperuma, Julian Chela-Flores, 1995-07-31 This interdisciplinary book consists of the proceedings of the Alexander Ivanovich Oparin 100th Anniversary Conference The Third Trieste Conference on Chemical Evolution which took place at the International Centre for Theoretical Physics from 29 August till 2 September 1994 A general overview of Oparin's life and work is followed by a review of Alfonso Herera another pioneer in the studies of the origin of life The subject matter is organized in ten sections corresponding to various aspects of our current understanding of the subject that was initiated by Oparin These subjects were covered by fifty three speakers There were sixty seven participants from a wide geographical distribution twenty seven countries were represented We have included the invited lecture of Professor Igor Kulaev who was unable to be present at the conference for reasons beyond his control The conference was generously supported by the International Centre for Theoretical Physics the Commission of the European Communities the International Centre for Genetic Engineering and Biotechnology the International Centre for Science and High Technology and UNESCO Cyril Ponnamperuma University of Maryland U S A Julian Chela Flores ICTP Italy and IDEA Venezuela xi FOREWORD As this volume was going to press we learnt of the untimely death of Cyril Ponnamperuma who died of cardiac arrest on December 20 1994 **Handbook of Astrobiology** Vera M. Kolb, 2018-12-07 Choice Recommended Title August 2019 Read an

exclusive interview with Professor Vera Kolb here Astrobiology is the study of the origin evolution distribution and future of life on Earth This exciting and significant field of research also investigates the potential existence and search for extra terrestrial life in the Solar System and beyond This is the first handbook in this burgeoning and interdisciplinary field Edited by Vera Kolb a highly respected astrobiologist this comprehensive resource captures the history and current state of the field Rich in information and easy to use it assumes basic knowledge and provides answers to questions from practitioners and specialists in the field as well as providing key references for further study Features Fills an important gap in the market providing a comprehensive overview of the field Edited by an authority in the subject with chapters written by experts in the many diverse areas that comprise astrobiology Contains in depth and broad coverage of an exciting field that will only grow

in importance in the decades ahead **Systems Approach to Astrobiology** Vera M. Kolb, Benton C. Clark, 2023-05-09 Systems thinking analysis is widely applied for solving complex problems in engineering and certain other fields Astrobiology which inherently involves complex problems can benefit from such an approach This book provides the background and methodology of this approach for professionals upper level undergraduate students and others with an interest in astrobiology topics In addition this book constitutes a valuable resource not only for astrobiology but also for its foundational disciplines e g chemistry physics astronomy biology biochemistry geology and planetary geology Features Surveys of the systems approach to analyzing and understanding multifaceted complex problems in astrobiology written by two scientists who also have engineering backgrounds Systems applications to areas important to astrobiology such as chemical evolution prebiotic chemistry geochemical geophysical settings conducive to emergence of life robotic space exploration and much more Wide appeal for all readers interested in the origin and occurrence of life in our Solar System and beyond Biological Inorganic Chemistry Ivano Bertini, Harry B. Gray, Edward Stiefel, Joan Valentine, 2007-01-01 Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The long awaited text for 21st century courses in biological inorganic chemistry is now available Organized and edited by Ivano Bertini Harry Gray Ed Stiefel and Joan Valentine with contributions from many other world leaders in the field this all new book is equally appropriate for graduate or senior undergraduate courses in bioinorganic chemistry The book has been extensively class tested at Princeton and UCLA and it includes tutorials in biology and biochemistry and in inorganic chemistry to aid students of varying backgrounds The main text is divided into two parts Part A Overviews of Biological Inorganic Chemistry sets forth the unifying principles of the field A full course in bioinorganic chemistry could be based entirely on this overview section which is a really a book within a book Part B Metal Ion Containing Biological Systems describes specific classes of systems in detail A special feature is the strong connection to the genomic revolution that has dramatically enhanced our ability to define the function of gene products in living organisms Throughout the book protein data bank codes are given for structures discussed in the text and students are encouraged to learn to use the PDB in their courses and research This exciting new book will be a must read for years to come for all students and researchers interested in the field of biological inorganic chemistry **Chirogenesis In Chemical Science** Victor Borovkov, Riina Aav, 2022-12-28 Chirogenesis in Chemical Science is an exciting new book that takes readers inside the world of chirality and chirogenesis guided by Victor Borovkov and Riina Aav both internationally renowned experts on chirality Chirality is a fundamental property of the universe and has significance in different organic inorganic materials living organisms and human beings The basic principle of chirality is existence of an object in two mirror image forms which are not superimposable This phenomenon is widely seen in various fields of knowledge including mathematics astronomy physics chemistry biology and ranging in scale from galaxies to

nuclear particles In chemical science chirality is generally associated with a single molecule or group of molecules which symmetry properties belonging to the C_n or D_n point groups with the simplest example of sp^3 carbon atom bonded to four different substituents The dynamic processes of chirality generation modulation transfer amplification etc are termed chirogenesis This is a fast growing and interdisciplinary field of research which is widely seen in many natural systems such as DNA double helix the secondary alpha helix structure of proteins lipid membranes saccharides heme proteins and other biological molecular objects and various artificial systems It is of prime importance not only for fundamental science but also for a number of practical applications in such areas as pharmacology and agrochemistry perfumery and food industry materials and polymer sciences enantioselective catalysis and nonlinear optics nanoscience and nanotechnology molecular devices and chemical sensors and others Therefore understanding the mechanisms and various influencing factors is of particular significance for smart control and further effective application of chirogenesis in chemistry

GEOPHYSICS AND GEOCHEMISTRY - Volume III Jan Lastovicka, 2009-11-28 Geophysics and Geochemistry is a component of Encyclopedia of Earth and Atmospheric Sciences in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias Geophysics and Geochemistry are two closely intertwined and collaborating branches of Earth's sciences The content of the Theme on Geophysics and Geochemistry is organized with state of the art presentations covering eight main topics Foundations of Geophysics and Geochemistry Geophysical Systems Seismology and Volcanology Geomagnetism and Geoelectricity Aeronomy and Magnetosphere Gravimetry Geochemistry and Cosmochemistry Planetology Comparative Planetology of Earth like Planets and Astrobiology which are then expanded into multiple subtopics each as a chapter These three volumes are aimed at the following a wide spectrum of audiences from the merely curious to those seeking in depth knowledge University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

Frontiers of Life J. Thanh Van Tran, 1992

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