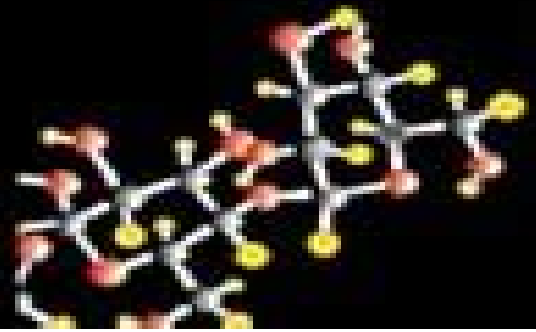
What is Life?

How Chemistry Becomes Biology



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What Is Life How Chemistry Becomes Biology

Tim Coulson

What Is Life How Chemistry Becomes Biology:

What is Life? Addy Pross,2012-09-27 Seventy years ago Erwin Schr dinger posed a profound question What is life and how did it emerge from non life This problem has puzzled biologists and physical scientists ever since Living things are hugely complex and have unique properties such as self maintenance and apparently purposeful behaviour which we do not see in inert matter So how does chemistry give rise to biology What could have led the first replicating molecules up such a path Now developments in the emerging field of systems chemistry are unlocking the problem Addy Pross shows how the different kind of stability that operates among replicating molecules results in a tendency for chemical systems to become more complex and acquire the properties of life Strikingly he demonstrates that Darwinian evolution is the biological expression of a deeper well defined chemical concept the whole story from replicating molecules to complex life is one continuous process governed by an underlying physical principle The gulf between biology and the physical sciences is finally becoming bridged This new edition includes an Epilogue describing developments in the concepts of fundamental forms of stability discussed in the book and their profound implications Oxford Landmark Science books are must read classics of modern science writing which have crystallized big ideas and shaped the way we think *What is Life?* Addy Pross,2012-09-27 Pross examines these issues from a chemical perspective providing a new understanding of how the sciences of chemistry and biology relate to one another *The Deeper Genome* John Parrington,2017-10-06 Over a decade ago as the Human Genome Project completed its mapping of the entire human genome hopes ran high that we would rapidly be able to use our knowledge of human genes to tackle many inherited diseases and understand what makes us unique among animals But things didn t turn out that way For a start we turned out to have far fewer genes than originally thought just over 20 000 the same sort of number as a fruit fly or worm What s more the proportion of DNA consisting of genes coding for proteins was a mere 2% So was the rest of the genome accumulated junk Things have changed since those early heady days of the Human Genome Project But the emerging picture is if anything far more exciting In this book John Parrington explains the key features that are coming to light some such as the results of the international ENCODE programme still much debated and controversial in their scope He gives an outline of the deeper genome involving layers of regulatory elements controlling and coordinating the switching on and off of genes the impact of its 3D geometry the discovery of a variety of new RNAs playing critical roles the epigenetic changes influenced by the environment and life experiences that can make identical twins different and be passed on to the next generation and the clues coming out of comparisons with the genomes of Neanderthals as well as that of chimps about the development of our species We are learning more about ourselves and about the genetic aspects of many diseases But in its complexity flexibility and ability to respond to environmental cues the human genome is proving to be far more subtle than we ever imagined **The Science of Why We Exist** Tim Coulson,2024-07-02 From the Big Bang and the evolution of the genetic code to the birth of

consciousness this is the extraordinary story of the chain of events that led to human life on earth Have you ever wondered why you exist What had to happen for you to be alive and conscious Scientists have come a long way in answering this question and this book describes what they have found out It also examines whether our existence was inevitable at the universe s birth 13 77 billion years ago or whether we are just incredibly lucky The book is aimed at readers who are interested in science but are not experts Written in an entertaining and accessible style the narrative begins by describing how scientists discover facts before taking the reader on a journey from the Big Bang to the creation of the human genome Covering physics astronomy chemistry earth sciences the emergence of life evolution consciousness the rise of humanity and how our personalities are moulded by genes chance and the environment the journey explains how the universe started as point of intense energy that over time in our corner of the universe resulted in our wonderful planet and in you **Genetics and the Novel** Paul Hamann-Rose,2024-03-13 Genetics and the Novel Reimagining Life Through Fiction argues that literary fiction has reimagined life in the age of genetics The new genetic paradigm has proposed to rewrite core assumptions about such fundamental aspects of life as the nature of kinship and biological connection human environmental relations or the link between biology and art Investigating major texts of genetic fiction by A S Byatt Ian McEwan Simon Mawer and Margaret Atwood this monograph offers the first systematic study of how these assumptions about life itself have been renegotiated through the contemporary novel s engagement with genetic science This book identifies a significant new phase in the novel s aesthetic exploration of life and demonstrates that the novel emerges as the cultural form uniquely positioned to engage both the imaginative and concrete challenges raised by genetic science for the lifeworlds of the new millennium **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** Anna Neubeck,Sean McMahon,2022-01-03 This book presents an overview of current views on the origin of life and its earliest evolution Each chapter describes key processes environments and transition on the long road from geochemistry and astrochemistry to biochemistry and finally to the ancestors of today s organisms This book combines the bottom up and the top down approaches to life including the origin of key chemical and structural features of living cells and the nature of abiotic factors that shaped these features in primordial environments The book provides an overview of the topic as well as its state of the art for graduate students and newcomers to the field It also serves as a reference for researchers in origins of life on Earth and beyond **Chemical Biology of Nucleic Acids** Volker A. Erdmann,Wojciech T. Markiewicz,Jan Barciszewski,2014-04-22 This volume contains 29 engrossing chapters contributed by worldwide leading research groups in the field of chemical biology Topics include pre biology the establishment of the genetic code isomerization of RNA damage of nucleobases in RNA the dynamic structure of nucleic acids and their analogs in DNA replication extra and intra cellular transport molecular crowding by the use of ionic liquids new technologies enabling the modification of gene expression via editing of therapeutic genes the use of riboswitches the modification of mRNA cap regions new approaches to detect appropriately modified RNAs with EPR spectroscopy and the use of parallel and high throughput techniques for the analysis of the structure and new functions of nucleic acids This volume discusses how chemistry can add new frontiers to the field of nucleic acids in molecular medicine biotechnology and nanotechnology and is not only an invaluable source of information to chemists biochemists and life scientists but will also stimulate future research **Experiences in the Biocontinuum** Richard L. Summers,2020-08-10 The central question in the biological sciences for the past 100 years has concerned an understanding of how living systems differ from other general physical phenomena and what makes these systems unique With new developments in the fields of nonequilibrium thermodynamics systems theory chaos and information theory over the past few decades there has been growing interest in finally answering the question first posed by Erwin Schr dinger in the 1940s concerning the true scientific nature of living systems Similarly there is also increasing interest within the biologic community for a more holistic and non reductionist methodology The approach followed in this book builds on a foundation of information theory and semiotics while integrating basic thermodynamic considerations and systems theory to form a singular unifying concept that is proposed to be the essential process of living systems However the premise presented is much more than simply the exposition of a new hypothesis This book describes the logical progression of thought incorporating a diverse array of established scientific ideas that were used in the conceptualization of a dynamic mathematical framework that can be employed as a novel analytic means for the study of living systems and their fundamental processes 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 **Applied Geography: The Formulation Of A New Ecological Science** John J. Moran,2019-02-07 Dedicated since ancient times to the study of interactions between Life processes and the environmental influences of our Earth world home and recognized by Charles Darwin as the Queen of Sciences Geography has provided an epistemological store of knowledge relating to past human experiences whether propitious or doleful in nature This pool of wisdom recorded in the Language of Geographical connectivity could be of great potential value in guiding decisions and the formulation of remedial strategies required to redress the pernicious effects of human cupidity and reckless exploitation of human and physical resources But the discipline of Geography has become an isolated and fractured science at a time when it could be called upon to counter the destructive effects of systemic problems such as climate change The world is at a crossroads reeling in shock from the traumatic effects of war clouded with anxiety about the future *Domains and Major Transitions of Social Evolution* Jacobus J. Boomsma,2023-05-24 Evolutionary change is usually incremental and continuous but some increases in organizational complexity have been radical and divisive Evolutionary biologists who refer to such events as major transitions have not always appreciated that these advances were novel forms of pairwise commitment that subjugated previously independent agents Inclusive fitness theory convincingly explains cooperation and conflict in societies of animals and free living cells but to deserve its eminent status it should also capture how major transitions originated from prokaryote cells to eukaryote cells via differentiated multicellularity to colonies with specialized queen and worker castes As yet no attempt has

been made to apply inclusive fitness principles to the origins of these events Domains and Major Transitions of Social Evolution develops the idea that major evolutionary transitions involved new levels of informational closure that moved beyond looser partnerships Early neo Darwinians understood this principle but later social gradient thinking obscured the discontinuity of life s fundamental organizational transitions The author argues that the major transitions required maximal kinship in simple ancestors not conflict reduction in already elaborate societies Reviewing more than a century of literature he makes testable predictions proposing that open societies and closed organisms require very different inclusive fitness explanations It appears that only human ancestors lived in societies that were already complex before our major cultural transition occurred We should therefore not impose the trajectory of our own social history on the rest of nature This thought provoking text is suitable for graduate level students taking courses in evolutionary biology behavioural ecology organismal developmental biology and evolutionary genetics as well as professional researchers in these fields It will also appeal to a broader interdisciplinary audience including the social sciences and humanities **The Genesis Quest** Michael Marshall,2021-09-17 Some have argued that life began in the chemical rich seas of the early Earth the famous primordial soup while others are convinced that life began in strange vents pumping hot water out of the sea floor where the chemical reactions that sustain living cells could get started Or perhaps life began in volcanic ponds on land or in meteorite impact zones or even in beds of clay Each idea has attracted staunch believers who promote it with an almost religious fervor But the story of life s origins is more than this it is a story that takes in some of the greatest discoveries in modern biology from cells to DNA and evolution to life s family tree This book is the first full history of the scientists who struggled to explain one of the greatest mysteries of all how and why life began **Evolution Reloaded** Taachal,2021-03-11 Every conscious person on the earth is curious to know how the species of human beings along with other living systems as well as the whole universe came into existence The theory of Darwin which ignited the imaginations of many generations of thinking people all over the world even to this day is no more than a hypothesis except for the concept of speciation which can be a working principle to understand about minor changes that a species undergoes over a period of time In this new theory of evolution in what can be called as a syncretism of the ideas of the East and the West the author takes a convincing turn from the realm of external attributes or the form of an organism to the realm of internal attributes or the life of an organism to unfurl a new hypothesis which can give more logical answers to the mysteries of evolution *Heidegger and the Human* Ingo Farin,Jeff Malpas,2022-10-01 The human being stands at the center of the humanities and social sciences In an age that some have dubbed the Anthropocene this book addresses Heidegger s conception of the human being and its role in the world Contributors discuss how Heidegger envisages and interprets the human being and what we can learn from his thought Pluralistic in outlook this volume covers a broad range of divergent views on Heidegger and his complex conception of the human A short introductory chapter orients the reader to the significance of the question of the human in Heidegger s works

its topicality and its relevance for interpreting Heidegger s oeuvre Chapters are divided into three thematic groups anthropology and philosophy human being otherness and world and life identity and finitude This organization facilitates discussions of the systematic interconnection between Heidegger s philosophy and his critical thoughts on anthropology and humanism as well as his relation to contemporary philosophers and their views on the subject Various problems in Heidegger s concept of the human are addressed and moral dimensions and practical imperatives implicit in Heidegger explored in discussions about intersectionality and oppression the frailty of the human and the embeddedness of the human being in nature society and history *The Climate of History in a Planetary Age* Dipesh Chakrabarty,2021-03-22 For the past decade historian Dipesh Chakrabarty has been one of the most influential scholars addressing the meaning of climate change Climate change he argues upends long standing ideas of history modernity and globalization The burden of The Climate of History in a Planetary Age is to grapple with what this means and to confront humanities scholars with ideas they have been reluctant to reconsider from the changed nature of human agency to a new acceptance of universals Chakrabarty argues that we must see ourselves from two perspectives at once the planetary and the global This distinction is central to Chakrabarty s work the globe is a human centric construction while a planetary perspective intentionally decenters the human Featuring wide ranging excursions into historical and philosophical literatures The Climate of History in a Planetary Age boldly considers how to frame the human condition in troubled times As we open ourselves to the implications of the Anthropocene few writers are as likely as Chakrabarty to shape our understanding of the best way forward **Principles of Human Locomotion** Thomas Rowland,2020-09-10 This book addresses how the general principles of biology influence the human capacity for locomotion and conversely how understanding the nature of muscular activity might provide insights into the basic nature of living beings Through a series of essays the book relates the evolutionary basis of animal locomotion to recognizing the determinants of exercise capacity While raising more questions than providing answers the discussions will assume that without knowing the correct questions to ask the answers will not be forthcoming At the root of this book lies the central query what is it that separates the principles governing the function of living beings from those that dictate the inanimate world The discussions here address this issue from the expectation that clues to the answer can be obtained through understanding adaptations to the stresses imposed by physical exercise As such the book provides thought provoking analyses of the biological basis of locomotion that will stimulate future efforts to understand these phenomena

Origins Jim Baggott,2018-06-06 What is life Where do we come from and how did we evolve What is the universe and how was it formed What is the nature of the material world How does it work How and why do we think What does it mean to be human How do we know There are many different versions of our creation story This book tells the version according to modern science It is a unique account starting at the Big Bang and travelling right up to the emergence of humans as conscious intelligent beings 13 8 billion years later Chapter by chapter it sets out the current state of scientific knowledge

the origins of space and time energy mass and light galaxies stars and our sun the habitable earth and complex life itself Drawing together the physical and biological sciences Baggott recounts what we currently know of our history highlighting the questions science has yet to answer *Science as Natural Philosophy and Finding Our Place in the Universe* Richard L. Summers,2023-11-21 The Scientific Revolution began with the publication of Copernicus heliocentric theory describing the Sun as the center of our solar system and all the known Universe That revolutionary idea began a rethinking of our place in the Universe and no longer were the affairs of humanity considered as the centerpiece of all that was known In the past century with the advent of the theories of Special and General Relativity the Copenhagen interpretation of quantum theory and a more sophisticated conception of living system dynamics there has been a new understanding of the central role of the observer or experiencer in the determination of natural phenomena and the actualization of reality Modern advancements in information theory semiotics and consciousness studies have also led to a better comprehension of the relationship between 1st person and 3rd person perspectives and the limits of the Scientific Method Science and religion have always had the common goal of trying to further our understanding of the world and its meaning for us This book explores a possible return of science to a role as natural philosophy and a pathway to better understanding our place in the Universe Prebiotic Chemistry and Life's Origin Michele Fiore,2022-06-29 How life originated from the inanimate mixture of organic and inorganic compounds on the priomordial earth remains one of the great unknowns in science This origin of life or abiogenesis continues to be examined in the context of the conditions and materials required for natural life to have begun on Earth both theoretically and experimentally This book provides a broad but in depth analysis of the latest discoveries in prebiotic chemsitry from the microscopic to the macroscopic scale utilising experimental insight to provide a bottom up approach to plausibly explaining how life arose With contributions from global leaders this book is an ideal reference for postgraduate students and a single source of comprehensive information on the latest technical and theoretical advancements for researchers in a variety of fields from astrochemistry and astrophysics to organic chemistry and evolution

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