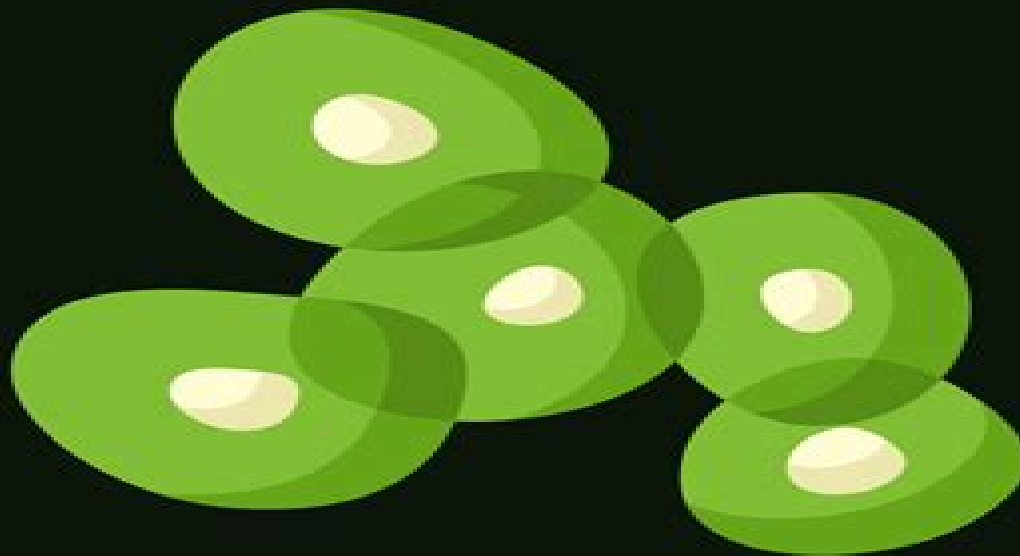


NICK LANE

THE VITAL QUESTION



The Vital Question By Nick Lane

Clayton Crockett



The Vital Question By Nick Lane:

The Vital Question Nick Lane, 2016 A game changing book on the origins of life called the most important scientific discovery since the Copernican revolution in *The Observer*

Vital Question Nick Lane, 2015-07-13 One of the deepest most illuminating books about the history of life to have been published in recent years *The Economist* The Earth teems with life in its oceans forests skies and cities Yet there s a black hole at the heart of biology We do not know why complex life is the way it is or for that matter how life first began In *The Vital Question* award winning author and biochemist Nick Lane radically reframes evolutionary history putting forward a solution to conundrums that have puzzled generations of scientists For two and a half billion years from the very origins of life single celled organisms such as bacteria evolved without changing their basic form Then on just one occasion in four billion years they made the jump to complexity All complex life from mushrooms to man shares puzzling features such as sex which are unknown in bacteria How and why did this radical transformation happen The answer Lane argues lies in energy all life on Earth lives off a voltage with the strength of a lightning bolt Building on the pillars of evolutionary theory Lane s hypothesis draws on cutting edge research into the link between energy and cell biology in order to deliver a compelling account of evolution from the very origins of life to the emergence of multicellular organisms while offering deep insights into our own lives and deaths Both rigorous and enchanting *The Vital Question* provides a solution to life s vital question why are we as we are and indeed why are we here at all

The Vital Question Nick Lane, 2015 A biochemist building on the pillars of evolutionary theory and drawing on cutting edge research into the link between energy and genes argues that the evolution of multicellular life was the result of a single event

Transformer Nick Lane, 2022-07-12 From the renowned biochemist and author of *The Vital Question* an illuminating inquiry into the Krebs cycle and the origins of life Nick Lane s exploration of the building blocks that underlie life s big fundamental questions the origin of life itself aging and disease have shaped my thinking since I first came across his work He is one of my favorite science writers Bill Gates What brings the Earth to life and our own lives to an end For decades biology has been dominated by the study of genetic information Information is important but it is only part of what makes us alive Our inheritance also includes our living metabolic network a flame passed from generation to generation right back to the origin of life In *Transformer* biochemist Nick Lane reveals a scientific renaissance that is hiding in plain sight how the same simple chemistry gives rise to life and causes our demise Lane is among the vanguard of researchers asking why the Krebs cycle the perfect circle at the heart of metabolism remains so elusive more than eighty years after its discovery *Transformer* is Lane s voyage as a biochemist to find the inner meaning of the Krebs cycle and its reverse why it is still spinning at the heart of life and death today Lane reveals the beautiful violent world within our cells where hydrogen atoms are stripped from the carbon skeletons of food and fed to the ravenous beast of oxygen Yet this same cycle spinning in reverse also created the chemical building blocks that enabled the emergence of life on our planet Now it does both How can

the same pathway create and destroy What might our study of the Krebs cycle teach us about the mysteries of aging and the hardest problem of all consciousness Transformer unites the story of our planet with the story of our cells what makes us the way we are and how it connects us to the origin of life Enlivened by Lane s talent for distilling and humanizing complex research Transformer offers an essential read for anyone fascinated by biology s great mysteries Life is at root a chemical phenomenon this is its deep logic *The Reality Frame* Brian Clegg,2017-04-06 Weaving together the great ideas of science The Reality Frame takes us on a thrilling journey from empty space all the way to the human mind Acclaimed science writer Brian Clegg builds up reality piece by piece from space to time to matter movement the fundamental forces life and the massive transformation that life itself has wrought on the natural world He reveals that underlying it all is not as we might believe a system of immovable absolutes but the ever shifting amorphous world of relativity From religion to philosophy humanity has traditionally sought out absolutes to explain the world around us but as science has developed relativity has swept away many of these certainties leaving only a handful of unchangeable essentials such as absolute zero nothingness light leading to better science and a new understanding of the essence of being human This is an Ascent of Man for the 21st century the gripping story of modern science that will fill you with wonder and give you a new insight into our place in the universe *The Web of Meaning* Jeremy Lent,2021-07-12 A profound personal meditation on human existence weaving together historic and contemporary thought on the deepest question of all why are we here Gabor Mat M D author In the Realm of Hungry Ghosts As our civilization careens toward climate breakdown ecological destruction and gaping inequality people are losing their existential moorings The dominant worldview of disconnection which tells us we are split between mind and body separate from each other and at odds with the natural world has been invalidated by modern science Award winning author Jeremy Lent investigates humanity s age old questions Who am I Why am I How should I live from a fresh perspective weaving together findings from modern systems thinking evolutionary biology and cognitive neuroscience with insights from Buddhism Taoism and Indigenous wisdom The result is a breathtaking accomplishment a rich coherent worldview based on a deep recognition of connectedness within ourselves between each other and with the entire natural world It offers a compelling foundation for a new philosophical framework that could enable humanity to thrive sustainably on a flourishing Earth The Web of Meaning is for everyone looking for deep and coherent answers to the crisis of civilization One of the most brilliant and insightful minds of our age Jeremy Lent has written one of the most essential and compelling books of our time David Korten author When Corporations Rule the World and The Great Turning From Empire to Earth Community We need now more than ever to figure out how to make all kinds of connections This book can help and therefore it can help with a lot of the urgent tasks we face Bill McKibben author Falter Has the Human Game Begun to Play Itself Out **Language in Deep Human History** Richard J. Watts,2024-02-19 Understanding the evolution of language within the context of deep human history requires interdisciplinary work between linguists and scientists from a wide range of

academic disciplines e g archaeology molecular biology anthropology genetics biochemistry etc The book aims to calibrate work on human evolution with current linguistic theory in an attempt to trace out a scientific story of how human language emerged and developed that has plausibility while remaining open to change through new linguistic and non linguistic research

Energy and Change Clayton Crockett, 2022-09-27 As humanity continues to consume planetary resources at an unsustainable rate we require not only new and renewable forms of energy but also new ways of understanding energy itself Clayton Crockett offers an innovative philosophy of energy that cuts across a number of leading edge disciplines Drawing from contemporary philosophies of New Materialism non Western traditions and the sciences he develops a comprehensive vision of energy as a material process spanning physics biology politics ecology and religion Crockett argues that change is foundational to material reality which is ceaselessly self organizing We can observe energy s effects in the operations of natural selection as well as those at work in human societies Matter and energy are not an oppositional binary rather they are expressions of how change functions in the universe Ultimately Crockett argues we can conceive of God neither as a deity nor as a being but as the principle of change Informed by cutting edge theoretical discourses in thermodynamics science studies energy humanities systems theory continental philosophy and radical theology Energy and Change draws on theorists such as Gilles Deleuze Catherine Malabou Slavoj i ek Karen Barad Bruno Latour and Kojin Karatani as well as ideas about spirituality society and nature from Amerindian Vodou and Neo Confucian traditions A foundational work in New Materialist philosophy of religion this book offers compelling new insights into the structure of the cosmos and our place in it

The Song of the Cell Siddhartha Mukherjee, 2022-10-30 From Pulitzer Prize winning and 1 New York Times bestselling author of *The Emperor of All Maladies* and *The Gene* *The Song of the Cell* is the third book in this extraordinary writer s exploration of what it means to be human rich with Siddhartha Mukherjee s revelatory and exhilarating stories of scientists doctors and all the patients whose lives may be saved by their work In the late 1600s a distinguished English polymath Robert Hooke and an eccentric Dutch cloth merchant Antonie van Leeuwenhoek look down their handmade microscopes What they see introduces a radical concept that sweeps through biology and medicine touching virtually every aspect of the two sciences and altering both forever It is the fact that complex living organisms are assemblages of tiny self contained self regulating units Our organs our physiology our selves hearts blood brains are built from these compartments Hooke christens them cells The discovery of cells and the reframing of the human body as a cellular ecosystem announced the birth of a new kind of medicine based on the therapeutic manipulations of cells A hip fracture a cardiac arrest Alzheimer s dementia AIDS pneumonia lung cancer kidney failure arthritis COVID all could be viewed as the results of cells or systems of cells functioning abnormally And all could be perceived as loci of cellular therapies In *The Song of the Cell* Mukherjee tells the story of how scientists discovered cells began to understand them and are now using that knowledge to create new humans He seduces readers with writing so vivid lucid and suspenseful that complex science becomes thrilling Told in six parts laced

with Mukherjee's own experience as a researcher, doctor and prolific reader. *The Song of the Cell* is both panoramic and intimate, a masterpiece.

Symbolism 2020 Rüdiger Ahrens, Florian Klaefer, Klaus Stierstorfer, 2020-12-07 This special anniversary volume of *Symbolism* explores the nexus between symbolic signification and the future from an interdisciplinary perspective. How do contributors ask: has the future been variously rendered in symbolic terms? How do symbols and symbolic reference shape our ideas of the future? To what extent are symbols constitutive of futures and to what extent do they restrain communication about what is possible and the imagination of fundamental change? Moreover, how have symbolic practices shaped not only artistic representations of the future but also scientific attempts at forecasting and modelling it? What then is the relevance of symbolism for negotiations of the future in cultural and academic production? In essays ranging from literary and film studies to the philosophy of art and ecological modelling, the volume seeks to lay groundwork in theorizing and historicising symbols of the future as much as the future of symbolism.

Life Ascending Nick Lane, 2010-06-14 Original and awe-inspiring, an exhilarating tour of some of the most profound and important ideas in biology. *New Scientist* Where does DNA come from? What is consciousness? How did the eye evolve? Drawing on a treasure trove of new scientific knowledge, Nick Lane expertly reconstructs evolution's history by describing its ten greatest inventions: from sex and warmth to death, resulting in a stunning account of nature's ingenuity.

[Understanding The Origin And Global Spread Of Covid-19](#) Nalin Chandra Wickramasinghe, Reginald M. Gorczynski, Edward J. Steele, 2022-06-29 This curated collection of scientific papers on the origin and global spread of COVID-19 is a unique project that offers explanations at odds with mainstream views. As the theme mainly focuses on Panspermia, viruses, microorganisms and their spores, and cometary arrival of even more complex cellular organisms, no other scientific group has paid attention to the temporal unfolding, scientific order, at the many required levels of understanding: astrobiological and astrophysical, geographical and the temporal order of global proportions, yet regional epidemics, the immunologic dimensions to the infection and epidemic data, the genetics of the SARS-CoV-2 virus as it adapted, varied and appeared in different human populations in the crucial first few months of the pandemic. This in-depth analysis over a two-year period allows a better understanding of what engulfed the world during the COVID-19 pandemic, how it happened and the most plausible way. There are many lessons for future generations that can be distilled from the contributions found in this book.

Braille Book Review, 2017

Power, Sex, Suicide Nick Lane, 2005-10-13 Mitochondria are tiny structures located inside our cells that carry out the essential task of producing energy for the cell. They are found in all complex living things and in that sense they are fundamental for driving complex life on the planet. But there is much more to them than that. Mitochondria have their own DNA with their own small collection of genes, separate from those in the cell nucleus. It is thought that they were once bacteria living independent lives. Their enslavement within the larger cell was a turning point in the evolution of life, enabling the development of complex organisms and, closely related, the origin of two sexes. Unlike the DNA in the nucleus, mitochondrial DNA is passed down exclusively or almost exclusively via

the female line That s why it has been used by some researchers to trace human ancestry daughter to mother to Mitochondrial Eve Mitochondria give us important information about our evolutionary history And that s not all Mitochondrial genes mutate much faster than those in the nucleus because of the free radicals produced in their energy generating role This high mutation rate lies behind our ageing and certain congenital diseases The latest research suggests that mitochondria play a key role in degenerative diseases such as cancer through their involvement in precipitating cell suicide Mitochondria then are pivotal in power sex and suicide In this fascinating and thought provoking book Nick Lane brings together the latest research findings in this exciting field to show how our growing understanding of mitochondria is shedding light on how complex life evolved why sex arose why don t we just bud and why we age and die This understanding is of fundamental importance both in understanding how we and all other complex life came to be but also in order to be able to control our own illnesses and delay our degeneration and death An extraordinary account of groundbreaking modern science The book abounds with interesting and important ideas Mark Ridley Department of Zoology University of Oxford

Oxygen Nick Lane,2002-09-26 Oxygen has had extraordinary effects on life Three hundred million years ago in Carboniferous times dragonflies grew as big as seagulls with wingspans of nearly a metre Researchers claim they could have flown only if the air had contained more oxygen than today probably as much as 35 per cent Giant spiders tree ferns marine rock formations and fossil charcoals all tell the same story High oxygen levels may also explain the global firestorm that contributed to the demise of the dinosaurs after the asteroid impact The strange and profound effects that oxygen has had on the evolution of life pose a riddle which this book sets out to answer Oxygen is a toxic gas Divers breathing pure oxygen at depth suffer from convulsions and lung injury Fruit flies raised at twice normal atmospheric levels of oxygen live half as long as their siblings Reactive forms of oxygen known as free radicals are thought to cause ageing in people Yet if atmospheric oxygen reached 35 per cent in the Carboniferous why did it promote exuberant growth instead of rapid ageing and death Oxygen takes the reader on an enthralling journey as gripping as a thriller as it unravels the unexpected ways in which oxygen spurred the evolution of life and death The book explains far more than the size of ancient insects it shows how oxygen underpins the origin of biological complexity the birth of photosynthesis the sudden evolution of animals the need for two sexes the accelerated ageing of cloned animals like Dolly the sheep and the surprisingly long lives of bats and birds Drawing on this grand evolutionary canvas Oxygen offers fresh perspectives on our own lives and deaths explaining modern killer diseases why we age and what we can do about it Advancing revelatory new ideas following chains of evidence the book ranges through many disciplines from environmental sciences to molecular medicine The result is a captivating vision of contemporary science and a humane synthesis of our place in nature This remarkable book will redefine the way we think about the world **Talking Book Topics** ,2016 4610222

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