

Life Ascending The Ten Great Inventions Of Evolution Nick Lane

Life Ascending The Vital Question Oxygen The Vital Question Promise Of Science, The: Essays And Lectures From Modern Scientific Pioneers Language in Deep Human History Transformer A World From Dust The Web of Meaning The Origin and Nature of Life on Earth Power, Sex, Suicide Cancer: An Integrative Approach New Scientist The Origins of Sociable Life: Evolution After Science Studies Science News The British National Bibliography The Spark Factor Dawkins Vs. Gould A Fine-Tuned Universe The Story of CO₂ Is the Story of Everything Nick Lane Nick Lane Nick Lane Nick Lane Lorie Karnath Richard J. Watts Nick Lane Ben McFarland Jeremy Lent Eric Smith Nick Lane Doru Paul Myra J. Hird Arthur James Wells Molly Maloof Kim Sterelny Alister E. McGrath Peter Brannen

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winner of the 2010 royal society prize for science books powerful new research methods are providing fresh and vivid insights into the makeup of life comparing

gene sequences examining the atomic structure of proteins and looking into the geochemistry of rocks have all helped to explain creation and evolution in more detail than ever before nick lane uses the full extent of this new knowledge to describe the ten greatest inventions of life based on their historical impact role in living organisms today and relevance to current controversies dna sex sight and consciousnesses are just four examples lane also explains how these findings have come about and the extent to which they can be relied upon the result is a gripping and lucid account of the ingenuity of nature and a book which is essential reading for anyone who has ever questioned the science behind the glories of everyday life

why is life the way it is bacteria evolved into complex life just once in four billion years of life on earth and all complex life shares many strange properties from sex to ageing and death if life evolved on other planets would it be the same or completely different in the vital question nick lane radically reframes evolutionary history putting forward a cogent solution to conundrums that have troubled scientists for decades the answer he argues lies in energy how all life on earth lives off a voltage with the strength of a bolt of lightning in unravelling these scientific enigmas making sense of life s quirks lane s explanation provides a solution to life s vital questions why are we as we are and why are we here at all this is ground breaking science in an accessible form in the tradition of charles darwin s the origin of species richard dawkins the selfish gene and jared diamond s guns germs and steel

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

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

this thought provoking publication covers a wide range of innovative areas of research and technologies that are unlocking groundbreaking new potentials in science it contains important scientific information gleaned from the lectures of some of the world's experts in their respective fields the book offers exceptional scientific insights oftentimes addressing challenges before they are even recognized as questions chronicling the revolutionary ideas of nobel laureates winners of wolf prize us national medal of science and other notable scientists

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

one of my favourite science writers bill gates hugely important jim al khalili a profound meditation on metabolism the krebs cycle the origin of life anil seth for decades biology has been dominated by information the power of genes yet there is no difference in information content between a living cell and one that died a moment ago a better question goes back to the formative years of biology what processes animate cells and set them apart from lifeless matter in transformer nick lane turns the standard view upside down capturing an extraordinary scientific renaissance that is hiding in plain sight at its core is an amazing cycle of reactions that uses energy to transform inorganic molecules into the building blocks of life and the reverse to understand this cycle is to fathom the deep coherence of the living world it connects the origin of life with the devastation of cancer the first photosynthetic bacteria with our own mitochondria sulphurous sludges with the emergence of consciousness and the trivial differences between ourselves with the large scale history of our planet

in a world from dust ben mcfarland brings together the latest genetic chemical mathematic and geological evidence to tell the story of how life has evolved on this planet over billions of years

the of meaning is both a profound personal meditation on human existence and a tour de force weaving together of historic and contemporary world wide secular and spiritual thought on the deepest question of all why are we here gabor mat  m d

author in the realm of hungry ghosts close encounters with addiction 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 as our civilization careens towards a precipice of climate breakdown ecological destruction and gaping inequality people are losing their existential moorings our 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 passed its expiration date yet another world is possible 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

uniting the foundations of physics and biology this groundbreaking multidisciplinary and integrative book explores life as a planetary process

mitochondria are tiny structures within all our cells believed to have once evolved from bacteria living independent lives drawing on cutting edge research this book explores the fundamental role they play in some of the biggest themes in biology evolution the origin of the sexes in growth ageing disease and in death

this book represents the synthesis of many current cancer theories which combined offers a novel and innovative approach in the diagnosis prevention and treatment of cancer it introduces a new and different paradigm in the diagnosis prevention and treatment of cancer by taking into account the organism as a whole which is very different from the current cellular tissular approach toward cancer in this new paradigm cancer involves dynamic interactions with the entire body and its internal

milieu focusing on these interactions will permit pre clinical cancer diagnosis and novel treatment approaches this onco holobiont model integrates most of the current malignant process models and it is intended for the use of practitioners clinicians cancer researchers and students with a particular interest in cancer the goal of this book is to inspire scientists to go beyond the current methods in the treatment of cancer and discover new paradigms

this ambitious book considers social scientific topics such as identity community sexual difference self and ecology from a microbial perspective harnessing research and evidence from earth systems science and microbiology and particularly focusing on symbiosis and symbiogenesis the book argues for the development of a microontology of life

foreword by dave asprey a breakthrough program for women to revive their lost energy and vitality developed by a leading biohacker and physician inside of you there is a spark it s what animates you and without it you could not live this energy creation isn t mystical nor is it spiritual it is science we know from research that our cellular machinery transforms the food we eat and the air we breathe into the electricity that fuels us with the right lifestyle inputs we glow with energy but when the demands on our bodies exceed our capacity as is true for so many of us we become burned out mentally and physically now in the spark factor dr molly maloof shares a program uniquely tailored to the biology of women a plan that targets the mitochondria the power source of the cells as dr maloof shows the intense all or nothing approaches commonly used by biohackers to optimize health including sustained fasting ultra low carb diets and intense training can be harmful especially for women because they create excessive stress in an already stressed body which can make us tired weak and prone to illness dr maloof s innovative program which has been used successfully by her patients offers lifestyle changes that target the unique biology of women and provide immediate and long term benefits instead of denying our bodies we need to listen to what they are telling us once we become

aware of our physical needs we can give ourselves the resources to become more connected nourished safe and strong at both the micro and the macro level with cutting edge biohacking insights strategies for personalized nutrition hormonal health and stress management the spark factor is the book women have been waiting for to help them reclaim their vitality and achieve lasting health

already an international bestseller this completely revised edition updates the story of science s most bitter argument

exploring a wide range of physical and biological phenomena and drawing on the latest research in biochemistry and evolutionary biology mcgrath draws out the implications of our new understanding of the natural world for traditional debates about the existence of god from publisher description

carbon dioxide this seemingly simple and ubiquitous substance is fundamental to how our planet works all life is made from co₂ and its behavior on this planet has kept it bizarrely habitable for hundreds of millions of years in its workings lie both the splendor of our world and the potential for life s destruction in short it is the most important substance in earth s history but why is co₂ as essential to life on earth as it is capable of destroying it in the story of co₂ is the story of everything award winning science journalist peter brannen reveals carbon dioxide s fundamental role in the operation and maintenance of planet earth starting at the beginning of time and working all the way up to our present reality he illuminates how co₂ has been responsible for the planet s many deaths and rebirths for the evolution of life and for the development of modern human society carbon dioxide s movement through the rocks the air the oceans and life has kept our planet s climate livable its air breathable and its oceans hospitable to complex life for more than 500 million years and only by understanding co₂ in the context of deep earth history can we see how it gave rise to today s industrial economy and more clearly recognize what it means to be churning through hundreds of millions of years of old life in the form

of fossil fuels and converting it all to carbon dioxide with groundbreaking research and a clear eyed perspective brannen shows how a deep exploration into the mechanics of the carbon cycle and the history of our planet can provide hope for averting environmental catastrophe in the future it all starts with a richer understanding of the essential role of one substance

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Introduction

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