



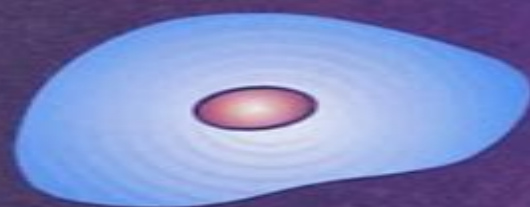
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symbiosis and the
evolution of complex life

JOHN ARCHIBALD

One Plus One Equals One Symbiosis And The Evolution Of Complex Life

John Archibald



One Plus One Equals One Symbiosis And The Evolution Of Complex Life:

One Plus One Equals One John Archibald, 2014-06-26 We are in the midst of a revolution It is a scientific revolution built upon the tools of molecular biology with which we probe and prod the living world in ways unimaginable a few decades ago Need to track a bacterium at the root of a hospital outbreak No problem the offending germ's complete genetic profile can be obtained in 24 hours We insert human DNA into E coli bacteria to produce our insulin It is natural to look at biotechnology in the 21st century with a mix of wonder and fear But biotechnology is not as unnatural as one might think All living organisms use the same molecular processes to replicate their genetic material and the same basic code to read their genes The similarities can be seen in their DNA Here John Archibald shows how evolution has been plugging and playing with the subcellular components of life from the very beginning and continues to do so today For evidence we need look no further than the inner workings of our own cells Molecular biology has allowed us to gaze back more than three billion years revealing the microbial mergers and acquisitions that underpin the development of complex life One Plus One Equals One tells the story of how we have come to this realization and its implications

One Plus One Equals One John Archibald, 2014 We are in the midst of a revolution It is a scientific revolution built upon the tools of molecular biology with which we probe and prod the living world in ways unimaginable a few decades ago Need to track a bacterium at the root of a hospital outbreak No problem the offending germ's complete genetic profile can be obtained in 24 hours We insert human DNA into E coli bacteria to produce our insulin It is natural to look at biotechnology in the 21st century with a mix of wonder and fear But biotechnology is not as unnatural as one might think All living organisms use the same molecular processes to replicate their genetic material and the same basic code to read their genes The similarities can be seen in their DNA Here John Archibald shows how evolution has been plugging and playing with the subcellular components of life from the very beginning and continues to do so today For evidence we need look no further than the inner workings of our own cells Molecular biology has allowed us to gaze back more than three billion years revealing the microbial mergers and acquisitions that underpin the development of complex life One Plus One Equals One tells the story of how we have come to this realization and its implications

Die Geschichte des Lebens Neil Shubin, 2021-02-24 Eine unvergleichliche Entdeckungsreise durch Raum und Zeit die uns an den Ursprung des Lebens selbst f hrt Anschaulich zug nglich und lebendig erz hlt der renommierte Naturwissenschaftler Neil Shubin von den gro en unerkl rlich scheinenden Umbr chen in der Evolutionsgeschichte Sein Buch bietet eine neue Perspektive auf die Evolution menschlichen und tierischen Lebens die erkl rt wie die verbl ffende Artenvielfalt auf unserem Planeten entstanden ist ber Milliarden Jahre entwickelten sich Fische zu Landbewohnern Reptilien zu V geln Primaten zu Menschen In der Pal ontologie und Arch ologie suchen Forscher nach genau solchen Fossilien nach evolution ren Meilensteinen die den Lauf und die Geschichte des Lebens ver nderten In den letzten zweihundert Jahren waren Funde wie diese die einzige zuverl ssige Methode um den Verlauf der Evolution nachzeichnen und

verstehen zu können. Doch die moderne Paläontologie steht derzeit an einem entscheidenden Wendepunkt. Die Entdeckung von DNA und die fortschreitende Technisierung eröffnen dem Wissenschaftszweig neue Möglichkeiten. Die Untersuchung von Fossilien mithilfe von DNA hilft der Forschung dabei, die zentralen Fragen unserer Existenz zu beantworten: Wie kommt es zu den großen evolutionären Veränderungen? Ist unser Dasein auf der Erde das Produkt reinen Zufalls? Oder hätte es gar nicht anders kommen können? Neil Shubin ist ein meisterhafter Erzähler und ein begnadeter Vermittler der Wissenschaft. *Wall Street Journal*: Shubins vier Milliarden Jahre umfassende Geschichte von alten Fossilien bis hin zur DNA zeigt einer breiten Leserschaft das wahre Bild der Wissenschaft mit einnehmenden Porträts großer Forscher aus der Vergangenheit und Gegenwart. *Nature*: Eine Freude. Dieses hervorragende Buch erweckt die intellektuelle Begeisterung wissenschaftlichen Strebens auf eine Art und Weise zum Leben, die sowohl erhellt als auch unterhält. *Publishers Weekly*: Persönlich und durchdacht. Aufregend. Eine weitreichende Evolutionsgeschichte. *Science*: *Some Assembly Required*. Neil Shubin, 2020-03-17. An exciting and accessible new view of the evolution of human and animal life on Earth. From the author of national bestseller *Your Inner Fish*, this extraordinary journey of discovery spans centuries as explorers and scientists seek to understand the origins of life's immense diversity. Fossils, DNA, scientists with a penchant for suits of armor, what's not to love? *BBC Wildlife Magazine*: Over billions of years, ancient fish evolved to walk on land, reptiles transformed into birds that fly, and apelike primates evolved into humans that walk on two legs, talk, and write. For more than a century, paleontologists have traveled the globe to find fossils that show how such changes have happened. We have now arrived at a remarkable moment: prehistoric fossils coupled with new DNA technology have given us the tools to answer some of the basic questions of our existence. How do big changes in evolution happen? Is our presence on Earth the product of mere chance? This new science reveals a multibillion-year evolutionary history filled with twists and turns, trial and error, accident, and invention. In *Some Assembly Required*, Neil Shubin takes readers on a journey of discovery spanning centuries as explorers and scientists seek to understand the origins of life's immense diversity. *Origins*. Jim Baggott, 2015-10-08. 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. *Life in the Cosmos*. Manasvi Lingam, Abraham Loeb, 2021-06-29. A rigorous and scientific analysis of the myriad possibilities of life beyond our planet. Are we alone in the universe? This tantalizing question has captivated humanity over millennia, but seldom has it been approached

rigorously Today the search for signatures of extraterrestrial life and intelligence has become a rapidly advancing scientific endeavor Missions to Mars Europa and Titan seek evidence of life Laboratory experiments have made great strides in creating synthetic life deepening our understanding of conditions that give rise to living entities And on the horizon are sophisticated telescopes to detect and characterize exoplanets most likely to harbor life Life in the Cosmos offers a thorough overview of the burgeoning field of astrobiology including the salient methods and paradigms involved in the search for extraterrestrial life and intelligence Manasvi Lingam and Abraham Loeb tackle three areas of interest in hunting for life out there first the pathways by which life originates and evolves second planetary and stellar factors that affect the habitability of worlds with an eye on the biomarkers that may reveal the presence of microbial life and finally the detection of technological signals that could be indicative of intelligence Drawing on empirical data from observations and experiments as well as the latest theoretical and computational developments the authors make a compelling scientific case for the search for life beyond what we can currently see Meticulous and comprehensive Life in the Cosmos is a master class from top researchers in astrobiology suggesting that the answer to our age old question is closer than ever before **Metazoa** Peter Godfrey-Smith, 2020-11-10 Enthralling breathtaking Metazoa brings an extraordinary and astute look at our own mind s essential link to the animal world The New York Times Book Review Editors Choice A great book Godfrey Smith is brilliant at describing just what he sees the patterns of behaviour of the animals he observes Nigel Warburton Five Books The scuba diving philosopher who wrote Other Minds explores the origins of animal consciousness Dip below the ocean s surface and you are soon confronted by forms of life that could not seem more foreign to our own sea sponges soft corals and serpulid worms whose rooted bodies intricate geometry and flower like appendages are more reminiscent of plant life or even architecture than anything recognizably animal Yet these creatures are our cousins As fellow members of the animal kingdom the Metazoa they can teach us much about the evolutionary origins of not only our bodies but also our minds In his acclaimed 2016 book Other Minds the philosopher and scuba diver Peter Godfrey Smith explored the mind of the octopus the closest thing to an intelligent alien on Earth In Metazoa Godfrey Smith expands his inquiry to animals at large investigating the evolution of subjective experience with the assistance of far flung species As he delves into what it feels like to perceive and interact with the world as other life forms do Godfrey Smith shows that the appearance of the animal body well over half a billion years ago was a profound innovation that set life upon a new path In accessible riveting prose he charts the ways that subsequent evolutionary developments eyes that track for example and bodies that move through and manipulate the environment shaped the subjective lives of animals Following the evolutionary paths of a glass sponge soft coral banded shrimp octopus and fish then moving onto land and the world of insects birds and primates like ourselves Metazoa gathers their stories together in a way that bridges the gap between mind and matter addressing one of the most vexing philosophical problems that of consciousness Combining vivid animal encounters with philosophical reflections and the latest

news from biology Metazoa reveals that even in our high tech AI driven times there is no understanding our minds without understanding nerves muscles and active bodies The story that results is as rich and vibrant as life itself *Strange Survivors* One R. Pagan,2018-02-27 Life is beautiful ruthless and very very strange In the evolutionary arms race that has raged on since life began organisms have developed an endless variety of survival strategies From sharp claws to brute strength camouflage to venom all these tools and abilities share one purpose to keep their bearer alive long enough to reproduce helping the species avoid extinction Every living thing on this planet has developed a time tested arsenal of weapons and defenses Some of these weapons and defenses however are decidedly more unusual than others In *Strange Survivors* biologist One R Paga n takes us on a tour of the improbable the ingenious and the just plain bizarre ways that creatures fight for life Inside this funny fascinating field guide to nature s most colorful characters you ll meet killer snails social bacteria and an animal with toxic elbows But *Strange Survivors* is more than a collection of curiosities it is a love letter to science and an argument for the continuing relevance of this evolutionary battle as we face the threat of resistant bacteria and the need for novel medical therapies Whether discussing blood thinning bats and electric fish or pondering the power of cooperation Paga n reveals the surprising lessons found in some of life s natural oddities and how the tactics they employ to live might aid our own survival *Reticulate Evolution* Nathalie Gontier,2015-07-09 Written for non experts this volume introduces the mechanisms that underlie reticulate evolution Chapters are either accompanied with glossaries that explain new terminology or timelines that position pioneering scholars and their major discoveries in their historical contexts The contributing authors outline the history and original context of discovery of symbiosis symbiogenesis lateral gene transfer hybridization or divergence with gene flow and infectious heredity By applying key insights from the areas of molecular phylo genetics microbiology virology ecology systematics immunology epidemiology and computational science they demonstrate how reticulate evolution impacts successful survival fitness and speciation Reticulate evolution brings forth a challenge to the standard Neo Darwinian framework which defines life as the outcome of bifurcation and ramification patterns brought forth by the vertical mechanism of natural selection Reticulate evolution puts forward a pattern in the tree of life that is characterized by horizontal mergings and lineage crossings induced by symbiosis symbiogenesis lateral gene transfer hybridization or divergence with gene flow and infective heredity making the tree of life look more like a web of life On an epistemological level the various means by which hereditary material can be transferred horizontally challenges our classic notions of units and levels of evolution fitness modes of transmission linearity communities and biological individuality The case studies presented examine topics including the origin of the eukaryotic cell and its organelles through symbiogenesis the origin of algae through primary and secondary symbiosis and dinoflagellates through tertiary symbiosis the superorganism and holobiont as units of evolution how endosymbiosis induces speciation in multicellular life forms transferrable and non transferrable plasmids and how they symbiotically interact with their host the means by which pro and

eukaryotic organisms transfer genes laterally bacterial transformation transduction and conjugation as well as transposons and other mobile genetic elements hybridization and divergence with gene flow in sexually reproducing individuals current human microbiome and virome studies that impact our knowledge concerning the evolution of organismal health and acquired immunity and how symbiosis and symbiogenesis can be modelled in computational evolution **Origins** J. E. Baggott, 2015 Jim Baggott sets out the scientific story of creation 13.8 billion years from the Big Bang to human consciousness via the origins of space and time mass and light stars the habitable earth and life itself From astrophysics to biology the whole inspiring picture is here **The Darwinian Tradition in Context** Richard G. Delisle, 2017-12-29 The main goal of this book is to put the Darwinian tradition in context by raising questions such as How should it be defined Did it interact with other research programs Were there any research programs that developed largely independently of the Darwinian tradition Accordingly the contributing authors explicitly explore the nature of the relationship between the Darwinian tradition and other research programs running in parallel In the wake of the Synthetic Theory of Evolution which was established throughout the 1930s 1940s and 1950s historians and philosophers of biology devoted considerable attention to the Darwinian tradition i.e. linking Charles Darwin to mid Twentieth Century developments in evolutionary biology Since then more recent developments in evolutionary biology have challenged in part or entirely the heritage of the Darwinian tradition Not surprisingly this has in turn been followed by a historiographical recalibration on the part of historians and philosophers regarding other research programs and traditions in evolutionary biology In order to acknowledge this shift the papers in this book have been arranged on the basis of two main threads Part I A perspective that views Darwinism as either being originally pluralistic or having acquired such a pluralistic nature through modifications and borrowings over time Part II A perspective blurring the boundaries between non Darwinian and Darwinian traditions either by contending that Darwinism itself was never quite as Darwinian as previously assumed or that non Darwinian traditions took on board various Darwinian components when not fertilizing Darwinism directly Between a Darwinism reaching out to other research programs and non Darwinian programs reaching out to Darwinism the least that can be said is that this interweaving of intellectual threads blurs the historiographical field This volume aims to open vital new avenues for approaching and reflecting on the development of evolutionary biology Der Krake, das Meer und die tiefen Ursprünge des Bewusstseins Peter Godfrey-Smith, 2019-03-29 Die Begegnung mit Kraken in den Tiefen des Meeres wird zum Ausgangspunkt dieser faszinierend erzählten Evolutionsgeschichte des Bewusstseins die sich unabhängig voneinander zweimal ereignete Kraken und Wirbeltiere haben gemeinsame Vorfahren und doch entwickelte sich ihre Intelligenz völlig unabhängig voneinander Godfrey Smith geht der Frage nach wie Oktopusse so intelligent werden konnten und welcher Art ihre Intelligenz ist die nicht in einem zentralen Gehirn steckt sondern in ihren Tentakeln In der Begegnung mit ihnen finden wir mehr über uns selbst heraus und wenn es einen ganz anderen einen außerirdischen Geist gibt dem wir begegnen können dann finden wir ihn

in den Oktopussen Peter Godfrey Smiths Buch bringt uns das Bewusstsein der Cephalodien und die Geschichte unseres eigenen Bewusstseins n her Tentakel f r Tentakel Sloane Crosley Vanity Fair Wenn das Philosophie ist dann funktioniert es beraus gut Peter Godfrey Smith ist nie dogmatisch aber erschreckend scharfsinnig Carl Safina The New York Times Book Review

Endosymbiotic Theories of Organelles Revisited Naoki Sato, 2020-01-03 This book re examines the endosymbiotic theory and presents various related theories and hypotheses since the first proposal in 1905 by a Russian biologist It also demonstrates that Lynn Margulis s contribution to the current endosymbiotic is less than sometimes thought and presents a plausible idea on how the organelles were formed Explaining that Margulis s initial work did not intend to show the endosymbiotic origin of chloroplasts and mitochondria the book discusses their endosymbiotic origin in the light of current biology with the help of clear visual images Further by including numerous historical facts and details of phylogenetic analyses using recent genomic data that are largely unknown to many in the field it offers deep insights into the history of biology phylogenetic analysis and the new evolutionary thinking 2017 was the 50 year anniversary of Margulis s first paper in the Journal of Theoretical Biology and 2020 will mark 50 years since the publication her famous work Origin of Eukaryotic Cells and as such this book offers a timely reconsideration of the works of Lynn Margulis and the endosymbiotic origin of organelles

Other Minds Peter Godfrey-Smith, 2016-12-06 Philosopher Peter Godfrey Smith dons a wet suit and journeys into the depths of consciousness in Other Minds Although mammals and birds are widely regarded as the smartest creatures on earth it has lately become clear that a very distant branch of the tree of life has also sprouted higher intelligence the cephalopods consisting of the squid the cuttlefish and above all the octopus In captivity octopuses have been known to identify individual human keepers raid neighboring tanks for food turn off lightbulbs by spouting jets of water plug drains and make daring escapes How is it that a creature with such gifts evolved through an evolutionary lineage so radically distant from our own What does it mean that evolution built minds not once but at least twice The octopus is the closest we will come to meeting an intelligent alien What can we learn from the encounter In Other Minds Peter Godfrey Smith a distinguished philosopher of science and a skilled scuba diver tells a bold new story of how subjective experience crept into being how nature became aware of itself As Godfrey Smith stresses it is a story that largely occurs in the ocean where animals first appeared Tracking the mind s fitful development Godfrey Smith shows how unruly clumps of seaborne cells began living together and became capable of sensing acting and signaling As these primitive organisms became more entangled with others they grew more complicated The first nervous systems evolved probably in ancient relatives of jellyfish later on the cephalopods which began as inconspicuous mollusks abandoned their shells and rose above the ocean floor searching for prey and acquiring the greater intelligence needed to do so Taking an independent route mammals and birds later began their own evolutionary journeys But what kind of intelligence do cephalopods possess Drawing on the latest scientific research and his own scuba diving adventures Godfrey Smith probes the many mysteries that surround the lineage

How did the octopus a solitary creature with little social life become so smart What is it like to have eight tentacles that are so packed with neurons that they virtually think for themselves What happens when some octopuses abandon their hermit like ways and congregate as they do in a unique location off the coast of Australia By tracing the question of inner life back to its roots and comparing human beings with our most remarkable animal relatives Godfrey Smith casts crucial new light on the octopus mind and on our own

The Tangled Tree David Quammen, 2019-08-06 In this New York Times bestseller and longlist nominee for the National Book Award our greatest living chronicler of the natural world The New York Times David Quammen explains how recent discoveries in molecular biology affect our understanding of evolution and life s history In the mid 1970s scientists began using DNA sequences to reexamine the history of all life Perhaps the most startling discovery to come out of this new field the study of life s diversity and relatedness at the molecular level is horizontal gene transfer HGT or the movement of genes across species lines It turns out that HGT has been widespread and important we now know that roughly eight percent of the human genome arrived sideways by viral infection a type of HGT In *The Tangled Tree* the grandest tale in biology David Quammen presents the science and the scientists involved with patience candor and flair Nature We learn about the major players such as Carl Woese the most important little known biologist of the twentieth century Lynn Margulis the notorious maverick whose wild ideas about mosaic creatures proved to be true and Tsutomu Wantanabe who discovered that the scourge of antibiotic resistant bacteria is a direct result of horizontal gene transfer bringing the deep study of genome histories to bear on a global crisis in public health David Quammen proves to be an immensely well informed guide to a complex story The Wall Street Journal In *The Tangled Tree* he explains how molecular studies of evolution have brought startling recognitions about the tangled tree of life including where we humans fit upon it Thanks to new technologies we now have the ability to alter even our genetic composition through sideways insertions as nature has long been doing *The Tangled Tree* is a source of wonder Quammen has written a deep and daring intellectual adventure The Boston Globe

Evolution "On Purpose" Peter A. Corning, Stuart A. Kauffman, Denis Noble, James A. Shapiro, Richard I. Vane-Wright, 2023-08-22 A unique exploration of teleonomy also known as evolved purposiveness as a major influence in evolution by a broad range of specialists in biology and the philosophy of science The evolved purposiveness of living systems termed teleonomy by chronobiologist Colin Pittendrigh has been both a major outcome and causal factor in the history of life on Earth Many theorists have appreciated this over the years going back to Lamarck and even Darwin in the nineteenth century In the mid twentieth century however the complex dynamic process of evolution was simplified into the one way bottom up single gene centered paradigm widely known as the modern synthesis In *Evolution On Purpose* edited by Peter A Corning Stuart A Kauffman Denis Noble James A Shapiro Richard I Vane Wright and Addy Pross some twenty theorists attempt to modify this reductive approach by exploring in depth the different ways in which living systems have themselves shaped the course of evolution *Evolution On Purpose* puts forward a more inclusive theoretical

synthesis that goes far beyond the underlying principles and assumptions of the modern synthesis to accommodate work since the 1950s in molecular genetics developmental biology epigenetic inheritance genomics multilevel selection niche construction physiology behavior biosemiotics chemical reaction theory and other fields In the view of the authors active biological processes are responsible for the direction and the rate of evolution Essays in this collection grapple with topics from the two way read write genome to cognition and decision making in plants to the niche construction activities of many organisms to the self making evolution of humankind As this collection compellingly shows and as bacterial geneticist James Shapiro emphasizes The capacity of living organisms to alter their own heredity is undeniable Evolutionary Cell Biology Michael R. Lynch, 2024-03-08 The fields of molecular evolution genome evolution and evolutionary genetics are now well established Remarkably however although all evolutionary modifications begin at the cellular level and despite the advances made in cell biology and microbiology over the past few decades there is as yet no recognised discipline of evolutionary cell biology The goal of this book is to help establish the foundations for this emerging field Its principal aims are twofold firstly to promote an understanding among evolutionary biologists as to why the cellular details matter if we are to understand the mechanisms of evolution secondly to make clear to non evolutionary biologists cell biologists in particular that evolution is not just a matter of natural selection and optimization but a process whose reach depends on other population genetic features such as mutation recombination and random genetic drift Although there are many excellent books on cell biology microbiology and biophysics almost no attention is given to evolution Likewise although there are numerous evolutionary biology books on the market none of them gives more than passing attention to details at the cellular level Thus Evolutionary Cell Biology is genuinely novel offering a broader understanding of evolutionary processes and an appreciation for the many interesting problems that remain to be solved at the cellular and subcellular levels This advanced textbook is aimed at both cell biologists and evolutionary biologists It will be accessible to upper level undergraduates in biology and certainly to graduate students in all areas of the life sciences Professionals from a wide range of fields cell biology microbiology evolution biophysics biochemistry and mathematics will be exposed to entirely new ideas not traditionally covered in their primary fields of expertise **Philosophy of Science** Alexander Christian, David Hommen, Nina Retzlaff, Gerhard Schurz, 2018-03-26 This broad and insightful book presents current scholarship in important subfields of philosophy of science and addresses an interdisciplinary and multidisciplinary readership It groups carefully selected contributions into the four fields of I philosophy of physics II philosophy of life sciences III philosophy of social sciences and values in science and IV philosophy of mathematics and formal modeling Readers will discover research papers by Paul Hoyningen Huene Keizo Matsubara Kian Salimkhani Andrea Reichenberger Anne Sophie Meincke Javier Suarez Roger Deulofeu Ludger Jansen Peter Hucklenbroich Martin Carrier Elizaveta Kostrova Lara Huber Jens Harbecke Antonio Piccolomini d Aragona and Axel Gelfert This collection fosters dialogue between philosophers of science working in different subfields and brings readers the finest and latest work

across the breadth of the field illustrating that contemporary philosophy of science has successfully broadened its scope of reflection It will interest and inspire a wide audience of philosophers as well as scholars of the natural sciences social sciences and the humanities The volume shares selected contributions from the prestigious second triennial conference of the German Society for Philosophy of Science Gesellschaft f r Wissenschaftsphilosophie GWP 2016 March 8 2016 March 11 2016

Mutual Aid Pablo Servigne,Gauthier Chapelle,2021-11-11 In the merciless arena of life we are all subject to the law of the jungle to ruthless competition and the survival of the fittest such is the myth that has given rise to a society that has become toxic for our planet and for our and future generations But today the lines are shifting A growing number of new movements and thinkers are challenging this skewed view of the world and reviving words such as altruism cooperation kindness and solidarity A close look at the wide spectrum of living beings reveals that at all times and in all places animals plants microorganisms and human beings have practised different forms of mutual aid And those which survive difficult conditions best are not necessarily the strongest but those which help each other the most Pablo Servigne and Gauthier Chapelle explore a vast forgotten continent of mutual aid in order to discover the mechanisms of this other law of the jungle In so doing they provide a more rounded view of the world of living things and give us some of the conceptual tools we need to move beyond the vicious circle of competition and self destruction that is leading our civilization to the verge of collapse

Selfish Genes to Social Beings Jonathan Silvertown,Jonathan W. Silvertown,2024 Selfish Genes to Social Beings is a new history of life told from a different perspective cooperation Beginning with the heroic story of rescuers in the post earthquake rubble of Mexico City Jonathan Slivertown reveals the universal rules of cooperation that apply throughout the history of life

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