

Evolution The Story Of Life On Earth Jay Hosler

Today, evolutionary biology is much more than an explanatory concept. It is indispensable to the world we live in. This book provides the first truly accessible and balanced account of how evolution has become a tool with applications that are thoroughly integrated, and deeply useful, in our everyday lives and our societies, often in ways that we do not realize. The Evolving World convinces us as never before that evolutionary biology has become absolutely necessary for human existence.

The book covers the possible story of emergence of life and its subsequent evolution, emphasizing the necessary evolutionary step negotiation of a common "language set" which kept all inhabitants in the biosphere together, ensuring a basic level of understanding among them. The book focuses on "protocols of communication" (both genetic and epigenetic) representing norms shared and understood across the whole biosphere, enabling a plethora of holobiotic relationships. Cooperative nature of organismal evolution and epigenetic processes as a major force in evolution are also covered. Topics discussed are illustrated in detail on selected casuistics.

*Every fossil tells a story. Best-selling paleontology author Donald R. Prothero describes twenty-five famous, beautifully preserved fossils in a gripping scientific history of life on Earth. Recounting the adventures behind the discovery of these objects and fully interpreting their significance within the larger fossil record, Prothero creates a riveting history of life on our planet. The twenty-five fossils portrayed in this book catch animals in their evolutionary splendor as they transition from one kind of organism to another. We witness extinct plants and animals of microscopic and immense size and thrilling diversity. We learn about fantastic land and sea creatures that have no match in nature today. Along the way, we encounter such fascinating fossils as the earliest trilobite, *Olenellus*; the giant shark *Carcharocles*; the "fishibian" *Tiktaalik*; the "Frogamander" and the "Turtle on the Half-Shell"; enormous marine reptiles and the biggest dinosaurs known; the first bird, *Archaeopteryx*; the walking whale *Ambulocetus*; the gigantic hornless rhinoceros *Paraceratherium*, the largest land mammal that ever lived; and the *Australopithecus* nicknamed "Lucy," the oldest human skeleton. We meet the scientists and adventurers who pioneered paleontology and learn about the larger intellectual and social contexts in which their discoveries were made. Finally, we find out where to see these splendid fossils in the world's great museums. Ideal for all who love prehistoric landscapes and delight in the history of science, this book makes a treasured addition to any bookshelf, stoking curiosity in the evolution of life on Earth.*

An illustrated natural history of the Earth and its denizens combines paintings, drawings, and computer-generated images with a chronicle of the world's variegated organisms and species.

Fungarium

The Evolving World

Information Theory, Evolution, and the Origin of Life

The Story of Life in 25 Fossils

Trees of Life

The Story of Life

PEOPLE HAVE BECOME SO BUSY WITH EVERYDAY ACTIVITIES THAT THEY SELDOM HAVE TIME TO THINK ABOUT EVERYTHING THAT SURROUNDS THEM. THE WORLD IS FULL OF LIFE, EVEN IN THE SEEMINGLY MOST INSIGNIFICANT THINGS. WOULDN'T IT BE WONDERFUL TO JUST SIT BACK AND TRY TO LEARN MORE ABOUT THE LIVING AND BREATHING SPECIES THAT SURROUND US BUT GO UNNOTICED EVERYDAY? Biology is the science of life, but while many of us may be familiar with the subject, only a few may be aware that biology encompasses much more than just humans and the other species that inhabit the earth. It is, perhaps, the most expansive and interesting subject that you could learn about. You may ask, if it is so expansive, then how would it be possible to learn all the important things there are to know about biology? The answer lies in this book, which would teach you all the most significant concepts to make you realize how biology has implications in our past, our present, and yes, even our future. This book is the only one you need to delve into the world of biology. It will teach you, in simple and easy-to-understand terms, how biology comes alive in our daily activities. Here's what this book contains: What exactly does the study of biology include How can biology help us understand our past Which branches of biology is relevant to our present What implications biology has on our future PLUS: Delve into the world of genetics Understand the how and why of human evolution Know the men and women who have spearheaded breakthroughs in biology You won't get information this comprehensive anywhere else! So act right now! GET YOUR COPY TODAY!

Biology's great discoveries and the people who make them

*Welcome to the museum that is always open to explore... Step inside the pages of *Anatomicum* to enjoy the experience of a museum from the comfort of your own home. The 2019 offering from *Welcome to the Museum* guides readers through the human body, from the muscles we use to show emotion, to the delicate workings of the brain. With sumptuous artwork by Katy Wiedemann and expert text by professor Dr Jennifer Z Paxton, this beautiful book is a feast of anatomical knowledge.*

What happened, how it happened, and when. Ten expert contributors tell the story.

The Beginnings of Biological Evolution

A Child's First Book of Evolution

The Story of the Human Body

An Introduction to the History of Life

Science of Life, Cell Theory, Evolution, Genetics, Homeostasis and Energy

Story of Life

Australopithecines, dinosaurs, trilobites--such fossils conjure up images of lost worlds filled with vanished organisms. But in the full history of life, ancient animals, even the trilobites, form only the half-billion-year tip of a nearly four-billion-year iceberg. Andrew Knoll explores the deep history of life from its origins on a young planet to the incredible Cambrian explosion, presenting a compelling new explanation for the emergence of biological novelty. The very latest discoveries in paleontology--many of them made by the author and his students--are integrated with emerging insights from molecular biology and earth system science to forge a broad understanding of how the biological diversity that surrounds us came to be. Moving from Siberia to Namibia to the Bahamas, Knoll

shows how life and environment have evolved together through Earth's history. Innovations in biology have helped shape our air and oceans, and, just as surely, environmental change has influenced the course of evolution, repeatedly closing off opportunities for some species while opening avenues for others. Readers go into the field to confront fossils, enter the lab to discern the inner workings of cells, and alight on Mars to ask how our terrestrial experience can guide exploration for life beyond our planet. Along the way, Knoll brings us up-to-date on some of science's hottest questions, from the oldest fossils and claims of life beyond the Earth to the hypothesis of global glaciation and Knoll's own unifying concept of "permissive ecology." In laying bare Earth's deepest biological roots, *Life on a Young Planet* helps us understand our own place in the universe--and our responsibility as stewards of a world four billion years in the making. In a new preface, Knoll describes how the field has broadened and deepened in the decade since the book's original publication.

A study of the Burgess Shale, a sea bed 530 million years old, and attempts to tackle what the findings are and what it means. This new extended edition of *Story of Life* is the perfect gift for those with a love of the natural world. Wander the galleries - open 365 days a year - and discover a collection of curated exhibits on every page, accompanied by informative text. Each chapter features key species from a different geological era with fantastic new artwork from Katie Scott.

FINALIST FOR THE PEN/E.O. WILSON LITERARY SCIENCE WRITING AWARD***A NEW YORK TIMES NOTABLE BOOK OF 2021***A SCIENCE NEWS FAVORITE BOOK OF 2021***A SMITHSONIAN TOP TEN SCIENCE BOOK OF 2021
"Stories that both dazzle and edify... This book is not just about life, but about discovery itself." —Siddhartha Mukherjee, New York Times Book Review
We all assume we know what life is, but the more scientists learn about the living world—from protocells to brains, from zygotes to pandemic viruses—the harder they find it is to locate life's edge. Carl Zimmer investigates one of the biggest questions of all: What is life? The answer seems obvious until you try to seriously answer it. Is the apple sitting on your kitchen counter alive, or is only the apple tree it came from deserving of the word? If we can't answer that question here on earth, how will we know when and if we discover alien life on other worlds? The question hangs over some of society's most charged conflicts—whether a fertilized egg is a living person, for example, and when we ought to declare a person legally dead. *Life's Edge* is an utterly fascinating investigation that no one but one of the most celebrated science writers of our generation could craft. Zimmer journeys through the strange experiments that have attempted to re-create life. Literally hundreds of definitions of what that should look like now exist, but none has yet emerged as an obvious winner. Lists of what living things have in common do not add up to a theory of life. It's never clear why some items on the list are essential and others not. Coronaviruses have altered the course of history, and yet many scientists maintain they are not alive. Chemists are creating droplets that can swarm, sense their environment, and multiply. Have they made life in the lab? Whether he is handling pythons in Alabama or searching for hibernating bats in the Adirondacks, Zimmer revels in astounding examples of life at its most bizarre. He tries his own hand at evolving life in a test tube with unnerving results. Charting the obsession with Dr. Frankenstein's monster and how the world briefly believed radium was the source of all life, Zimmer leads us all the way into the labs and minds of researchers engineering life from scratch.

Tales of Intrepid Fossil Hunters and the Wonders of Evolution

Life's Origin

Evolution: The Whole Life on Earth Story

An Evolution Story

The Story of Life: Evolution (Extended Edition)

Our Family Tree

EvolutionThe Story of Life

"[A]n exuberant romp through evolution, like a modern-day Willy Wonka of genetic space. Gee's grand tour enthusiastically details the narrative underlying life's erratic and often whimsical exploration of biological form and function." —Adrian Woolfson, *The Washington Post*
In the tradition of Richard Dawkins, Bill Bryson, and Simon Winchester—An entertaining and uniquely informed narration of Life's life story. In the beginning, Earth was an inhospitably alien place—in constant chemical flux, covered with churning seas, crafting its landscape through incessant volcanic eruptions. Amid all this tumult and disaster, life began. The earliest living things were no more than membranes stretched across microscopic gaps in rocks, where boiling hot jets of mineral-rich water gushed out from cracks in the ocean floor. Although these membranes were leaky, the environment within them became different from the raging maelstrom beyond. These havens of order slowly refined the generation of energy, using it to form membrane-bound bubbles that were mostly-faithful copies of their parents—a foamy lather of soap-bubble cells standing as tiny clenched fists, defiant against the lifeless world. Life on this planet has continued in much the same way for millennia, adapting to literally every conceivable setback that living organisms could encounter and thriving, from these humblest beginnings to the thrilling and unlikely story of ourselves. In *A (Very) Short History of Life on Earth*, Henry Gee zips through the last 4.6 billion years with infectious enthusiasm and intellectual rigor. Drawing on the very latest scientific understanding and writing in a clear, accessible style, he tells an enlightening tale of survival and persistence that illuminates the delicate balance within which life has always existed.

Draws on the latest scientific information to recreate the story of life on Earth, with introductory articles on evolution and an index to the hundreds of species depicted in the illustrations.

Although plants comprise more than 90% of all visible life, and land plants and algae collectively make up the most morphologically, physiologically, and ecologically diverse group of organisms on earth, books on evolution instead tend to focus on animals. This organismal bias has led to an incomplete and often erroneous understanding of evolutionary theory. Because

plants grow and reproduce differently than animals, they have evolved differently, and generally accepted evolutionary views—as, for example, the standard models of speciation—often fail to hold when applied to them. Tapping such wide-ranging topics as genetics, gene regulatory networks, phenotype mapping, and multicellularity, as well as paleobotany, Karl J. Niklas's *Plant Evolution* offers fresh insight into these differences. Following up on his landmark book *The Evolutionary Biology of Plants*—in which he drew on cutting-edge computer simulations that used plants as models to illuminate key evolutionary theories—Niklas incorporates data from more than a decade of new research in the flourishing field of molecular biology, conveying not only why the study of evolution is so important, but also why the study of plants is essential to our understanding of evolutionary processes. Niklas shows us that investigating the intricacies of plant development, the diversification of early vascular land plants, and larger patterns in plant evolution is not just a botanical pursuit: it is vital to our comprehension of the history of all life on this green planet.

The Tangled Tree

The Story of Evolution in 25 Discoveries

Wonderful Life: The Burgess Shale and the Nature of History

A Visual History of Evolution

Plant Evolution

The theory of evolution unites the past, present, and future of living things. It puts humanity's place in the universe into necessary perspective. Despite a history of controversy, the evidence for evolution continues to accumulate as a result of many separate strands of amazing scientific sleuthing. In *The Story of Evolution in 25 Discoveries*, Donald R. Prothero explores the most fascinating breakthroughs in piecing together the evidence for evolution. In twenty-five vignettes, he recounts the dramatic stories of the people who made crucial discoveries, placing each moment in the context of what it represented for the progress of science. He tackles topics like what it means to see evolution in action and what the many transitional fossils show us about evolution, following figures from Darwin to lesser-known researchers as they unlock the mysteries of the fossil record, the earth, and the universe. The book also features the stories of animal species strange and familiar, including humans—and our ties to some of our closest relatives and more distant cousins. Prothero's wide-ranging tales showcase awe-inspiring and bizarre aspects of nature and the powerful insights they give us into the way that life works. Brisk and entertaining while firmly grounded in fundamental science, *The Story of Evolution in 25 Discoveries* is a captivating read for anyone curious about the evidence for evolution and what it means for humanity.

In this inspirational storybook written in rhyme, Annabelle asks "Why do we look, the way that we do? With hands and feet, in neat sets of two? What made my eyes? And what made my nose? And the shape of my body, from my head to my toes?" A wise owl answers with the amazing story of Darwinian evolution, and perhaps more importantly, what we can learn from it: to be kind to one another, as we are all related in the same family tree. At a glance, most species seem adapted to the environment in which they live. Yet species relentlessly evolve, and populations within species evolve in different ways. Evolution, as it turns out, is much more dynamic than biologists realized just a few decades ago. In *Relentless Evolution*, John N. Thompson explores why adaptive evolution never ceases and why natural selection acts on species in so many different ways. Thompson presents a view of life in which ongoing evolution is essential and inevitable. Each chapter focuses on one of the major problems in adaptive evolution: How fast is evolution? How strong is natural selection? How do species co-opt the genomes of other species as they adapt? Why does adaptive evolution sometimes lead to more, rather than less, genetic variation within populations? How does the process of adaptation drive the evolution of new species? How does coevolution among species continually reshape the web of life? And, more generally, how are our views of adaptive evolution changing? *Relentless Evolution* draws on studies of all the major forms of life—from microbes that evolve in microcosms within a few weeks to plants and animals that sometimes evolve in detectable ways within a few decades. It shows evolution not as a slow and stately process, but rather as a continual and sometimes frenetic process that favors yet more evolutionary change.

Evolution.

Relentless Evolution

Evolution of Land and Life in Oman: an 800 Million Year Story

Anatomicum

A (Very) Short History of Life on Earth

Annabelle and Aiden in the Story of Life

The Story of Life's Development on Earth

Where did we come from? It's a simple question, but not so simple an answer to explain—especially to young children. Charles Darwin's theory of common descent no longer needs to be a scientific mystery to inquisitive young readers. Meet Grandmother Fish. Told in an engaging call and response text where a child can wiggle like a fish or hoot like an ape and brought to life by vibrant artwork, Grandmother Fish takes children and adults through the history of life on our planet and explains how we are all connected. The book also includes comprehensive backmatter, including: - An elaborate illustration of the evolutionary tree of life - Helpful science notes for parents - How to explain natural selection to a child

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).

In this book the author, a Harvard evolutionary biologist presents an account of how the human body has evolved over millions of years, examining how an increasing disparity between the needs of Stone Age bodies and the realities of the modern world are fueling a paradox of greater longevity and chronic disease. It illuminates the major transformations that contributed key adaptations to the body: the rise of bipedalism; the shift to a non-fruit-based diet; the advent of hunting and gathering, leading to our superlative endurance athleticism; the development of a very large brain; and the incipience of cultural proficiencies. The author also elucidates how cultural evolution differs from biological evolution, and how our bodies were further transformed during the Agricultural and Industrial Revolutions. While these ongoing changes have brought about many benefits, they have also created conditions to which our bodies are not entirely adapted, the author argues, resulting in the growing incidence of obesity and new but avoidable diseases, such as type 2 diabetes. The author proposes that many of these chronic illnesses persist and in some cases are intensifying because of 'dysevolution,' a pernicious dynamic whereby only the symptoms rather than the causes of these maladies are treated. And finally, he advocates the use of evolutionary information to help nudge, push, and sometimes even compel us to create a more salubrious environment. -- From publisher's web site.

At first, nothing lived on Earth. It was a noisy, hot, scary place. Choking gas exploded from volcanoes and oceans of lava bubbled around the globe... Then in the deep, dark ocean, something amazing happened. This is an exciting and dramatic story about how life began and developed on Planet Earth, written especially for younger children. The authors explain how the first living cell was created, and how the cells multiply and create jellyfish and worms, and then fish with bendy necks, which drag themselves out of the water into swampy forests. They tell the story of the biggest creatures that have ever walked on land - the dinosaurs. Long after that, hairy creatures who have babies, not eggs, take over, stand on two legs and spread around the world, some of them living through cataclysmic events such as ice ages and volcanic eruptions. Everyone living today is related to these survivors. With delightful illustrations including lots of detail and humour, all carefully researched and checked, this book shows the development of life on Earth in a truly accessible and simple way. [CLICK HERE](#) to download Teachers' Notes specially written by the authors, Catherine Barr and Steve Williams, to assist teachers and librarians in the promotion and teaching of *The Story of Life* in schools and to help foster a love of good books, literature and reading in children.

Life: the First Four Billion Years

Evolution

The Whole Story

The Story of Life on Earth

Great Discoveries in Biology

Life's Edge

The history of life on Earth is, in some form or another, known to us all--or so we think. A New History of Life offers a provocative new account, based on the latest scientific research, of how life on our planet evolved--the first major new synthesis for general readers in two decades. Charles Darwin's theories, first published more than 150 years ago, form the backbone of how we understand the history of the Earth. In reality, the currently accepted history of life on Earth is so flawed, so out of date, that it's past time we need a 'New History of Life.' In their latest book, Joe Kirschvink and Peter Ward will show that many of our most cherished beliefs about the evolution of life are wrong. Gathering and analyzing years of discoveries and research not yet widely known to the public, A New History of Life proposes a different origin of species than the one Darwin proposed, one which includes eight-foot-long centipedes, a frozen “snowball Earth”, and the seeds for life originating on Mars. Drawing on their years of experience in paleontology, biology, chemistry, and astrobiology, experts Ward and Kirschvink paint a picture of the origins life on Earth that are at once too fabulous to imagine and too familiar to dismiss--and looking forward, A New History of Life brilliantly assembles insights from some of the latest scientific research to understand how life on Earth can and might evolve far into the future.

Publisher Description

Welcome to the Fungarium! Step into the world of fungi and learn all about these strange and fascinating life-forms. Illustrator Katie Scott returns to the Welcome to the Museum series with exquisite, detailed images of some of the most fascinating living organisms on this planet--fungi. Exploring every sort of fungi, from the kinds we see on supermarket shelves to those like penicillium that have shaped human history, this collection is the definitive introduction to what fungi are and just how vital they are to the world's ecosystem.

This volume explores the historical and current theories about the origin of life, addressing in particular the three key puzzles of how and when life began on Earth and in what form.

Life on a Young Planet

Chance and the Making of the Planet, Life, and You

The Story of Life from the Big Bang to the Evolution of Humans

Welcome to the Museum

The Evidence and the People Who Found It

Grandmother Fish

"[An] account of the great transformations in the history of life on Earth--a new view of the evolution of human and animal life that explains how the incredible diversity of life on our planet came to be"--

Relates the evolution of the family of mankind, from single cells in the sea to human beings with "big brains that wonder who we are."

Join Ackerley the Acanthostega who takes you on a journey through time to explore the development of life on our wonderful planet, from the earliest organisms of 3.6 billion years

ago, through to the arrival of primates 60 million years ago, to modern humans who have been around for less than 200,000 years. Discover: - the giant insects that roamed our planet 440 million years ago - how giant dinosaurs ruled for over 180 million years - how the mass extinction 65 million years ago wiped out nearly all life on Earth - the rise of mammals to become the dominant species With brilliant CGI illustrations, fun diagrams and loads of humor, this book answer's, simply and honestly, the important and fascinating questions about life on Earth and how it evolved.

This book takes readers on a fascinating journey to discover the story of land and ancient life evolution in Oman since at least 800 million years ago. Oman is well known for its marvelous geology. What tectonics affected this part of the world and what organisms lived there? How did the climate and life develop? Did life forms become more complex and varied or become extinct and disappear forever? The book thoroughly reconstructs this land and ancient life evolution and offers readers an understanding on how land, climate and life have proceeded and developed in Oman through the millions of years.

The Story of Evolution

The Radical New Discoveries about the Origins and Evolution of Life on Earth

A Radical New History of Life

Soul Story

Decoding Four Billion Years of Life, from Ancient Fossils to DNA

Evolution, Health, and Disease

What is a selfish gene? What are the kingdoms of life? Why are there no car-sized bugs and beetles? Glenn Murphy, author of *Why is S Green?*, answers these and a lot of other brilliant questions in this funny and informative book. Packed with doodles and information about sorts of incredible things, from how we evolved from chemical soup to shrews to human beings, and why bugs really do rule the world! The *Whole Life on Earth Story* contains absolutely no boring bits! Discover more funny science with *Space: The Whole Whizz-Bang Story* THE EMERGENCE OF SOUL, MEANING AND IMMORTALITY The grand religious stories that gave meaning to life and death in the past have crumbled under sceptical scrutiny. The dominant mainstream philosophy is now scientific objectivism, which describes a universe that for no reason and a life that ends in oblivion. Pioneering philosopher Tim Freke addresses the "soul crisis" in modern culture that has a lack of meaning. He offers an intelligent "spiritual" perspective on life and death to help us make sense of a paradoxical world, which is bleak and banal, but also can be magical and full of significance. He presents a revolutionary paradigm shift in our understanding of reality, integrates the deepest insights of science and spirituality to create a new model of human identity, which makes the idea of the immortal intellectually credible. He explores the process of evolution, not as blind chance, but as the momentous story of the self-realising universe. The development of the material world has led to the emergence of "psyche" or "soul," which you are experiencing right now as a stream of thoughts and images that don't exist in space and aren't made of matter. We are not insignificant specks in a vast purposeless cosmos. We are active participants in the magnificent and meaningful story of soul. The universe is coming to know itself through each one of us and this process ends at death, because the evolution of soul has also been the evolution of immortality.

An accessible graphic introduction to evolution for the most science-phobic reader Illustrated by the brilliant duo Kevin Cannon and Zan Cannon, this volume is written by the noted comic author and professor of biology Jay Hosler. *Evolution* features the same characters as in the highly regarded *The Stuff of Life: A Graphic Guide to Genetics and DNA*, now here to explain the fundamentals of the evolution of life on earth. On the heels of explaining to his planetary leader the intricacies of human genetics in *The Stuff of Life*, the intrepid alien scientist Bloort-183 is charged in this sequel with covering the wider story of evolution. Using the same storytelling conceit that *Plenty* magazine is "so charming that you won't even notice you've absorbed an entire scientific field" and that caused *Seed* to pick *The Stuff of Life* as a best book of 2008, *Evolution* brilliantly answers *Wired's* demand, "What's the solution to America's crisis in science education? More comic books!" *Evolution*, the most accessible graphic work on this universally studied subject, takes the reader from earth's primordial soup to the complex structures, like the coccyx and the male nipple, of modern humans. Once again, the award-winning illustrations of the Cannons render the complex clear and everything cleverly comedic. And in Hosler, *Evolution* has an award-winning biology teacher whose science comics have earned him a National Science Foundation grant and an interview on NPR's *Morning Edition*.

There are millions of different kinds of plants and animals living on the earth. Many millions more lived here in the past. Where did they come from? Why have some become extinct and others lived on? In this remarkable book for children, Steve Jenkins explores the fascinating life on earth and the awe-inspiring story of evolution, Charles Darwin's great contribution to modern science.

A Series of Fortunate Events

Evolution and The Purpose of Life

The Search for What It Means to Be Alive

The First Three Billion Years of Evolution on Earth - Updated Edition

A New History of Life

Life on Earth

Award-winning children's book creators Martin Jenkins and Grahame Baker-Smith team up for a large-scale look at our planet, from the big bang to the dinosaurs and beyond. Before humans took their first steps, there were billions of years of vibrant and varied life-forms on Earth. Discover the story of our planet during this time, from the formation of the universe to the first mammals and all the incredible life that flourished in between. Covering ice ages and fossils, the first life in the sea and on land, the time of the dinosaurs, and the rise of mammals, Martin Jenkins navigates through millennia of prehistory in a style both enthralling and accessible. With superb illustrations from Kate Greenaway Medal winner Grahame Baker-Smith, this is a captivating journey through the life of our planet before we called it ours.

"Fascinating and exhilarating—Sean B. Carroll at his very best."—Bill Bryson, author of *The Body: A Guide for Occupants* From acclaimed writer and biologist Sean B. Carroll, a rollicking, awe-inspiring story of the surprising power of chance in our lives and the world *Why is the world the way it is? How did we get here? Does everything happen for a reason or are some things left to chance? Philosophers and theologians have pondered these questions for millennia, but startling scientific discoveries over the past half century are revealing that we live in a*

world driven by chance. *A Series of Fortunate Events* tells the story of the awesome power of chance and how it is the surprising source of all the beauty and diversity in the living world. Like every other species, we humans are here by accident. But it is shocking just how many things—any of which might never have occurred—had to happen in certain ways for any of us to exist. From an extremely improbable asteroid impact, to the wild gyrations of the Ice Age, to invisible accidents in our parents' gonads, we are all here through an astonishing series of fortunate events. And chance continues to reign every day over the razor-thin line between our life and death. This is a relatively small book about a really big idea. It is also a spirited tale. Drawing inspiration from Monty Python, Kurt Vonnegut, and other great thinkers, and crafted by one of today's most accomplished science storytellers, *A Series of Fortunate Events* is an irresistibly entertaining and thought-provoking account of one of the most important but least appreciated facts of life.

The Book of Life

Epigenetic Processes and Evolution of Life

4.6 Billion Years in 12 Pithy Chapters

Some Assembly Required

Biology