

Biophilia Edward O Wilson

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HOLMES KELLEY

A Biologist's Walk Through Gorongosa National Park W. W. Norton & Company
The scientific evidence that a healthy planet equals happier humans: "Highly recommended."—Library Journal We've heard plenty about the big-picture damage and danger of environmental degradation. But there hasn't been much focus on its impact on us and our well-being. You sense it while walking on a sandy beach or in a forest, or when you catch sight of wildlife, or even while gardening in your backyard. Could it be that the natural environment is an essential part of our happiness? In this wide-ranging work, Eric Lambin draws on new scientific evidence in the fields of geography, political ecology, environmental psychology, urban studies, and disease ecology, among others, to answer such questions as: To what extent do we need nature for our well-being? What can be done to protect the environment and increase our well-being at the same time? Drawing on case studies from Asia, Africa, Europe, and North America, Lambin makes a persuasive case for the strong link between healthy ecosystems and happy humans. *An Ecology of Happiness* offers a compelling, powerful argument to help motivate commitment and action: Whether it's brilliant fall foliage or birdsong, nature makes our steps a little lighter and our eyes a little brighter. What better reason to protect an ecosystem or save a species than for our own pleasure? "Anyone who has ever delighted in the earthy scent of a springtime stroll in the woods, a walk on the beach, or a starry gaze into the universe now has scholarly proof. Nature, not money or material possessions, makes us happy."—Ruth DeFries, Columbia University, author of *The Big Ratchet*
Routledge
New York Times Bestseller From the most

celebrated heir to Darwin comes a groundbreaking book on evolution, the summa work of Edward O. Wilson's legendary career. Sparking vigorous debate in the sciences, *The Social Conquest of Earth* upends "the famous theory that evolution naturally encourages creatures to put family first" (Discover). Refashioning the story of human evolution, Wilson draws on his remarkable knowledge of biology and social behavior to demonstrate that group selection, not kin selection, is the premier driving force of human evolution. In a work that James D. Watson calls "a monumental exploration of the biological origins of the human condition," Wilson explains how our innate drive to belong to a group is both a "great blessing and a terrible curse" (Smithsonian). Demonstrating that the sources of morality, religion, and the creative arts are fundamentally biological in nature, the renowned Harvard University biologist presents us with the clearest explanation ever produced as to the origin of the human condition and why it resulted in our domination of the Earth's biosphere.

A Dominant, Hyperdiverse Ant Genus Sinauer Associates, Incorporated
"Brimming with ideas. . . . The Origins of Creativity approach[es] creativity scientifically but sensitively, feeling its roots without pulling them out."—Economist In a stirring exploration of human nature recalling his foundational work *Consilience*, Edward O. Wilson offers a "luminous" (Kirkus Reviews) reflection on the humanities and their integral relationship to science. Both endeavors, Wilson argues, have their roots in human creativity—the defining trait of our species. By studying fields as diverse as paleontology, evolution, and neurobiology, Wilson demonstrates that creative expression began not 10,000 years ago, as we have long assumed, but more than 100,000 years ago in the Paleolithic Age. A provocative investigation into what it means to be human, *The Origins of Creativity* reveals how the humanities have played an unexamined role in

defining our species. With the eloquence, optimism, and pioneering inquiry we have come to expect from our leading biologist, Wilson proposes a transformational "Third Enlightenment" in which the blending of science and humanities will enable a deeper understanding of our human condition, and how it ultimately originated. *What It Is and How to Do It* Biophilia
A gorgeously illustrated, accessible book that provides a holistic summary of the key elements for good biophilic design *A Radical New History of Life* Vintage
Forming a twenty-first-century statement on Darwinian evolution, one shorn of "religious and political dogma," Edward O. Wilson offers a bold work of scientific thought and synthesis. Asserting that religious creeds and philosophical questions can be reduced to purely genetic and evolutionary components, and that the human body and mind have a physical base obedient to the laws of physics and chemistry, *Genesis* demonstrates that the only way for us to fully understand human behavior is to study the evolutionary histories of nonhuman species. Of these, Wilson demonstrates that at least seventeen—among them the African naked mole rat and the sponge-dwelling shrimp—have been found to have advanced societies based on altruism and cooperation. Whether writing about midges who "dance about like acrobats" or schools of anchovies who protectively huddle "to appear like a gigantic fish," or proposing that human society owes a debt of gratitude to "postmenopausal grandmothers" and "childless homosexuals," *Genesis* is a pithy yet path-breaking work of evolutionary theory, braiding twenty-first-century scientific theory with the lyrical biological and humanistic observations for which Wilson is known.
Caste and Ecology in the Social Insects Island Press
A masterful, timely, fully authorized biography of the great and hugely influential biologist and naturalist E. O. Wilson, one of the most ground-breaking

and controversial scientists of our time—from the Pulitzer Prize-winning author of *The Making of the Atomic Bomb* “An impressive account of one of the 20th century’s most prominent biologists, for whom the natural world is ‘a sanctuary and a realm of boundless adventure; the fewer the people in it, the better.’” —The New York Times Book Review Few biologists in the long history of that science have been as productive, as ground-breaking and as controversial as the Alabama-born Edward Osborne Wilson. At 91 years of age he may be the most eminent American scientist in any field. Fascinated from an early age by the natural world in general and ants in particular, his field work on them and on all social insects has vastly expanded our knowledge of their many species and fascinating ways of being. This work led to his 1975 book *Sociobiology*, which created an intellectual firestorm from his contention that all animal behavior, including that of humans, is governed by the laws of evolution and genetics. Subsequently Wilson has become a leading voice on the crucial importance to all life of biodiversity and has worked tirelessly to synthesize the fields of science and the humanities in a fruitful way. Richard Rhodes is himself a towering figure in the field of science writing and he has had complete and unfettered access to Wilson, his associates, and his papers in writing this book. The result is one of the most accomplished and anticipated and urgently needed scientific biographies in years.

The Kingdom of Rarities Princeton University Press

The book that launched a movement: “Wilson speaks with a humane eloquence which calls to us all” (Oliver Sacks). Called “one of the greatest men alive” by The Times of London, E. O. Wilson proposes an historic partnership between scientists and religious leaders to preserve Earth’s rapidly vanishing biodiversity.

Road Ecology National Academies Press
Biophilia Harvard University Press
The Biophilia Hypothesis Island Press

Puppy Socialization Liveright Publishing
Extraordinary and engrossing account with a friendly intimacy, he offers a personal narrative, a travelogue, and a celebration of the natural world, not a polemic. When Dinerstein asks questions about biodiversity, habitat fragmentation, and conservation biology, he is constructive, engaging, and exceptionally well informed. He is also balanced and realistic, daring to ask which species are the most important to protect and why.

Science and Solutions Simon and Schuster

The author, a professor of entomology at Harvard, looks back on his life, education, and career, and discusses his work. *Technobiophilia* W. W. Norton & Company National Book Award Finalist. How did humanity originate and why does a species like ours exist on this planet? Do we have a special place, even a destiny in the universe? Where are we going, and perhaps, the most difficult question of all, “Why?” In *The Meaning of Human Existence*, his most philosophical work to date, Pulitzer Prize-winning biologist Edward O. Wilson grapples with these and other existential questions, examining what makes human beings supremely different from all other species. Searching for meaning in what Nietzsche once called “the rainbow colors” around the outer edges of knowledge and imagination, Wilson takes his readers on a journey, in the process bridging science and philosophy to create a twenty-first-century treatise on human existence—from our earliest inception to a provocative look at what the future of mankind portends. Continuing his groundbreaking examination of our “Anthropocene Epoch,” which he began with *The Social Conquest of Earth*, described by the New York Times as “a sweeping account of the human rise to domination of the biosphere,” here Wilson posits that we, as a species, now know enough about the universe and ourselves that we can begin to approach questions about our place in the cosmos and the meaning of intelligent life in a systematic, indeed, in a testable way. Once criticized for a purely mechanistic view of human life and an overreliance on genetic predetermination, Wilson presents in *The Meaning of Human Existence* his most expansive and advanced theories on the sovereignty of human life, recognizing that, even though the human and the spider evolved similarly, the poet’s sonnet is wholly different from the spider’s web. Whether attempting to explicate “The Riddle of the Human Species,” “Free Will,” or “Religion”; warning of “The Collapse of Biodiversity”; or even creating a plausible “Portrait of E.T.,” Wilson does indeed believe that humanity holds a special position in the known universe. The human epoch that began in biological evolution and passed into pre-, then recorded, history is now more than ever before in our hands. Yet alarmed that we are about to abandon natural selection by redesigning biology and human nature as we wish them, Wilson soberly concludes that advances in science and technology bring us our greatest moral dilemma since God stayed the hand of Abraham. *The Emergence of Biophilic Design* Island

Press

Population theory.

Letters to a Young Scientist Library of America

This book addresses the emergence of biophilic design, a form of design that looks at people’s intrinsic connection with nature. There is no denying that biophilic design is rapidly expanding globally as an effective response to pressing issues in urban areas and built environments. From being a term few had heard of in 2012, when the author’s research began, to one that is currently trending in a broad range of disciplines, the story of its emergence has never been properly told. The story of the emergence of biophilic design is the story of a social movement and how a gathering of people with a common interest and passion can spark a global trend. The book and the stories within are not only engaging but also informative and educational, offering readers an in-depth understanding of what biophilic design is all about, and how to promote its implementation in their own built environment. Hopefully, they will inspire people to act, to campaign and to implement initiatives in their urban environment, with the confidence that they are capable of making a difference. The author spent three years researching the emergence of biophilic design, and why and how it was driven by certain people who championed the concept. Part of the author’s research involved a three-month tour of ten North American cities, during which she interviewed 26 key players. These people ranged from community leaders, landscape architects, and academics, to the CEOs of NGOs and government leaders. The result is a collection of stories that illustrate the evolution of biophilic design, and how it was frequently born from a passion for, belief in and love of nature, as well as a response to an urban crisis.

The Coevolutionary Process W. W. Norton & Company

CD-ROM contains high resolution digital images of most of the type species.

The Beauty, Elegance, and Strangeness of Insect Societies W. W. Norton & Company

Debate on the threat to humanity posed by the massive and widespread loss of biological diversity has largely emphasized economic and ecological consequences. In *The Value of Life*, a leading social scientist adds a critical new dimension. Stephen R. Kellert explores the actual and perceived importance of biological diversity for humankind’s physical, emotional, intellectual, and even spiritual well-being. Kellert identifies ten basic values, which

he describes as biologically based, inherent human tendencies that are greatly influenced and moderated by culture, learning, and experience. Throughout, Kellert argues that the preservation of biodiversity is fundamentally linked to human well-being as he illustrates the importance of biological diversity to the human sociocultural and psychological condition. His discussion provides the reader with a deeper understanding of how humans depend on a vast matrix of affiliations with other living things to achieve lives rich in meaning and value.

Evolutionary Perspectives on Environmental Problems World Scientific

Focusing on the interrelationship of wild nature and human nature, a collection of short writings and essays explores "Animal Nature, Human Nature," "The Patterns of Nature," and "Nature's Abundance"

The Creation: An Appeal to Save Life on Earth Yale University Press

Road Ecology links ecological theories and concepts with transportation planning, engineering, and travel behavior. With more than 100 illustrations and examples from around the world, it is an indispensable and pioneering work for anyone involved with transportation.

Completing the Darwinian Revolution Princeton University Press

It is widely understood that Charles Darwin's theory of evolution completely revolutionized the study of biology. Yet, according to David Sloan Wilson, the Darwinian revolution won't be truly complete until it is applied more broadly—to everything associated with the words "human," "culture," and "policy." In a series of engaging and insightful examples—from the breeding of hens to the timing of cataract surgeries to the organization of an automobile plant—Wilson shows how an evolutionary worldview provides a practical tool kit for understanding not only genetic evolution but also the fast-paced changes that are having an impact on our world and ourselves. What emerges is an incredibly empowering argument: If we can become wise managers of evolutionary processes, we can solve the problems of our age at

all scales—from the efficacy of our groups to our well-being as individuals to our stewardship of the planet Earth.

The Diversity of Life Simon & Schuster

The remarkable story of how one of the most biologically diverse habitats in the world was destroyed, restored, and continues to evolve—with stunning, full-color photographs by two of the world's best wildlife photographers. *A Window on Eternity* is a stunning book of splendid prose and gorgeous photography about one of the biologically richest places in Africa and perhaps in the world.

Gorongosa National Park in Mozambique was nearly destroyed in a brutal civil war, then was reborn and is now evolving back to its original state. Edward O. Wilson's personal, luminous description of the wonders of Gorongosa is beautifully complemented by Piotr Naskrecki's extraordinary photographs of the park's exquisite natural beauty. A bonus DVD of Academy Award-winning director Jessica Yu's documentary, *The Guide*, is also included with the book. Wilson takes readers to the summit of Mount Gorongosa, sacred to the local people and the park's vital watershed. From the forests of the mountain he brings us to the deep gorges on the edge of the Rift Valley, previously unexplored by biologists, to search for new species and assess their ancient origins. He describes amazing animal encounters from huge colonies of agricultural termites to specialized raider ants that feed on them to giant spiders, a battle between an eagle and a black mamba, "conversations" with traumatized elephants that survived the slaughter of the park's large animals, and more. He pleads for Gorongosa—and other wild places—to be allowed to exist and evolve in its timeless way uninterrupted into the future. As he examines the near destruction and rebirth of Gorongosa, Wilson analyzes the balance of nature, which, he observes, teeters on a razor's edge. Loss of even a single species can have serious ramifications throughout an ecosystem, and yet we are carelessly destroying complex biodiverse ecosystems with unknown consequences. The wildlands in which these ecosystems

flourish gave birth to humanity, and it is this natural world, still evolving, that may outlast us and become our legacy, our window on eternity.

The Value of Life Island Press

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).