

## Remarkable Creatures Epic Adventures In The Search For The Origins Of Species Sean B Carroll

In this landmark work, the author team led by Dr. Sean Carroll presents the general principles of the genetic basis of morphological change through a synthesis of evolutionary biology with genetics and embryology. In this extensively revised second edition, the authors delve into the latest discoveries, incorporating new coverage of comparative genomics, molecular evolution of regulatory proteins and elements, and microevolution of animal development. An accessible text, focusing on the most well-known genes, developmental processes and taxa. Builds logically from developmental genetics and regulatory mechanisms to evolution at different genetic morphological levels. Adds major insights from recent genome studies, new evo-devo biology research findings, and a new chapter on models of variation and divergence among closely related species. Provides in-depth focus on key concepts through well-developed case studies. Features clear, 4-color illustrations and photographs, chapter summaries, references and a glossary. Presents the research of Dr. Carroll, a pioneer in the field and the past president of the Society for Developmental Biology.

From a New York Times best-selling historian and Pulitzer Prize finalist, a sweeping epic of how the Vikings and their descendants have shaped history and America

An enthralling account of a modern voyage of discovery as we meet the clever, social birds of prey called caracaras, which puzzled Darwin, fascinate modern-day falconers, and carry secrets of our planet's deep past in their family history. 'Captivating ... full of insights into not only our planet's evolutionary past but also its future' \*\*\*\*\*Mail on Sunday In 1833, Charles Darwin was astonished by an animal he met in the Falkland Islands: handsome, social, and oddly crow-like falcons that were tame and inquisitive, quarrelsome and passionate, and so insatiably curious that they stole hats, compasses, and other valuables from the crew of the Beagle. Darwin wondered why these birds were confined to remote islands at the tip of South America, sensing a larger story, but he set this mystery aside and never returned to it.

Almost two hundred years later, Jonathan Meiburg takes up this chase. He takes us through South America, from the fog-bound coasts of Tierra del Fuego to the tropical forests of Guyana, in search of these birds: striated caracaras, which still exist, though they're very rare. He reveals the wild, fascinating story of their history, origins, and possible futures. And along the way, he draws us into the life and work of William Henry Hudson, the Victorian writer and naturalist who championed caracaras as an unsung wonder of the natural world, and to falconry parks in the English countryside, where captive caracaras perform incredible feats of memory and problem-solving. A Most Remarkable Creature is a hybrid of science writing, travelogue, and biography, as generous and accessible as it is sophisticated. It is much more than a book about birds: it's a journey to uncover moments of first contact between science and religion, and humans and animals.

This unique learning experience lets kids meet dinosaurs face-to-face. Animal Adventures: Dinosaurs will take you on a journey to explore the world of dinosaurs. Have fun while learning and see all of your favorites like you never have before—with colorful illustrations and fascinating facts, and then by building a diorama. Everything you need to dive into the world of dinos is right here! This unique set includes a book full of colorful illustrations and intriguing facts about dinosaurs, plus three-dimensional dinosaur models and a diorama with reusable stickers. Journey to the Age of Dinosaurs to learn everything you need to know about these remarkable creatures.

This book is a collection of short essays, each challenging a commonplace assumption about biology - playfully dubbed "Sacred Bovines." The essays aim to be both provocative and entertaining. They highlight amusing ironies and fascinating details, such as organisms that blur the distinction of male and female, tool use and language among non-humans, errors made by Charles Darwin or Nobel Prize winners, and how research on cells was enriched by a Marxist perspective. As an ensemble, the essays aim to deepen an understanding of how science works, including its cultural contexts. The 28 pieces are arranged in 7 thematic sections, focusing on such topics as error in science, "myth-conceptions" of scientists, cultural bias in scientific concepts, the challenge of expertise and "what counts as science" in society, and science and values. While all the essays focus on cases in biology, most of the lessons are more general, and valuable for any citizen who reflects on science in society. A final Epilogue profiles the value of the style of thinking exemplified throughout the book - namely, the light-hearted challenging of assumptions as a source of creative insight. An additional "Afterword for Teachers" highlights how the essays can foster learning about the nature of science and describes some practical classroom strategies.

The last decade has seen an out-pouring of new books by Christian authors that present the scientific evidence for cosmic and biological evolution. The significance of these details challenges the traditional theological understanding of creation and urges Christ-followers to adopt an evolutionary creationist approach. Failure to do so puts science and faith on a collision course. A Reasonable God identifies the issues, synthesizes the viewpoints, and encourages readers to step outside their comfort zone and wrestle with some of the ambiguities and uncertainties. The book is a great asset for post-secondary students who are confronted with the evidences, and for church leaders who are looking for a quick way to become better informed.

Biology's great discoveries and the people who make them

"Contains elements of Oz and Harry Potter with a healthy dollop of Willy Wonka thrown into the mix." —Kirkus Reviews In this sweeping and inventive debut novel that's perfect for fans of Roald Dahl, Neil Gaiman, and Tim Burton, a prodigal inventor flees his home to find his destiny. In the humdrum town of Moormouth, Walter Mortinson's unusual inventions cause nothing but trouble. After one of his contraptions throws the town into chaos, Walter's mother demands he cut the nonsense and join the family mortuary business. Far off on Flaster Isle, famed inventor Horace Flasterborn plans to take Walter under his wing, just as he did Walter's genius father decades ago. When a letter arrives by unusual means offering Walter an apprenticeship, it isn't long before Walter decides to flee Moormouth to meet his destiny. Walter runs away in the family hearse along with Cordelia, the moody girl next door with one eye and plenty of secrets. Together they journey through a strange landscape of fish-people, giantess miners, and hypnotized honeybees in an adventure that will not only reveal the truth about Walter's past, but direct his future.

Drawing on the lives of five great scientists, this "scholarly, insightful, and beautifully written book" (Martin Rees, author of From Here to Infinity) illuminates the path to scientific discovery. Charles Darwin, William Thomson (Lord Kelvin), Linus Pauling, Fred Hoyle, and Albert Einstein all made groundbreaking contributions to their fields—but each also stumbled badly. Darwin's theory of natural selection shouldn't have worked, according to the prevailing beliefs of his time. Lord Kelvin gravely miscalculated the age of the earth. Linus Pauling, the world's premier chemist, constructed an erroneous model for DNA in his haste to beat the competition to publication. Astrophysicist Fred Hoyle dismissed the idea of a "Big Bang" origin to the universe (ironically, the caustic name he gave to this event endured long after his erroneous objections were disproven). And Albert Einstein speculated incorrectly about the forces of the universe—and that speculation opened the door to brilliant conceptual leaps. As Mario Livio luminously explains in this "thoughtful meditation on the course of science itself" (The New York Times Book Review), these five scientists expanded our knowledge of life on earth, the evolution of the earth, and the evolution of the universe, despite and because of their errors. "Thoughtful, well-researched, and beautifully written" (The Washington Post), Brilliant Blunders is a wonderfully insightful examination of the psychology of five fascinating scientists—and the mistakes as well as the achievements that made them famous.

The never-before-told account of the intersection of some of the most insightful minds of the 20th century, and a fascinating look at how war, resistance, and friendship can catalyze genius. In the spring of 1940, the aspiring but unknown writer Albert Camus and budding scientist Jacques Monod were quietly pursuing ordinary, separate lives in Paris. After the German invasion and occupation of France, each joined the Resistance to help liberate the country from the Nazis and ascended to prominent, dangerous roles. After the war and through twists of circumstance, they became friends, and through their passionate determination and rare talent they emerged as leading voices of modern literature and biology, each receiving the Nobel Prize in their respective fields. Drawing upon a wealth of previously unpublished and unknown material gathered over several years of research, *Brave Genius* tells the story of how each man endured the most terrible episode of the twentieth century and then blossomed into extraordinarily creative and engaged individuals. It is a story of the transformation of ordinary lives into exceptional lives by extraordinary events--of courage in the face of overwhelming adversity, the flowering of creative genius, deep friendship, and of profound concern for and insight into the human condition. "Invites students to step into the lives of naturalists who followed their dreams, and often risked their lives, to explore the unknown. Each of the nine stories in this brief reader chronicles the dramatic adventures of an influential zoologist, geologist, paleontologist, or geneticist on their path to some of the most important discoveries that have shaped our understanding of how life has evolved. Cultivates an understanding of the physical hardships the featured explorers endured and the obstacles they had to overcome in challenging societal belief systems and initiating paradigm shifts in the scientific community" - from publisher.

*Evolution* presents foundational concepts through a contemporary framework of population genetics and phylogenetics that is enriched by current research and stunning art. In every chapter, new critical thinking questions and expanded end-of-chapter problems emphasizing data interpretation reinforce the Second Edition's focus on helping students think like evolutionary biologists.

An ethologist shows man to be a gene machine whose world is one of savage competition and deceit

National Book Award Finalist: A biologist's "thoroughly enjoyable" account of the expeditions that unearthed the history of life on our planet (Publishers Weekly). Not so long ago, most of our world was an unexplored wilderness. Our sense of its age was vague and vastly off the mark, and much of the knowledge of our own species' history was a set of fantastic myths and fairy tales. But scientists were about to embark on an amazing new era of understanding. From the New York Times--bestselling author of *The Big Picture*, this book leads us on a rousing voyage that recounts the most important discoveries in two centuries of natural history: from Darwin's trip around the world to Charles Walcott's discovery of pre-Cambrian life in the Grand Canyon; from Louis and Mary Leakey's investigation of our deepest past in East Africa to the trailblazers in modern laboratories who have located a time clock in our DNA. Filled with the same sense of adventure that spurred on these extraordinary men and women, *Remarkable Creatures* is a "stirring introduction to the wonder of evolutionary biology" (Kirkus Reviews). "Charming and enlightening." —San Francisco Chronicle "As fast-paced as a detective story." —Nature

*Darwin's Bridge: Uniting the Humanities and Sciences* explores the meaning of consilience and considers the unity of human evolution, human nature, social dynamics, art, and narrative. The term "consilience" in its modern usage was first established by co-editor Edward O. Wilson in his 1998 book, *Consilience: The Unity of Knowledge*. Wilson's original thesis had two parts: that nature forms a unitary order of causal forces, hierarchically organized, and that scientific knowledge, because it delineates nature, also forms a unitary order, providing a unity of knowledge across a variety of fields. Bringing together cutting-edge scientists and scholars across this range, this volume gives an expert account of consilience and makes it possible to see how far we have come toward unifying knowledge about the human species, what major issues are still in contention, and which areas of research are most likely to produce further progress. The essays in *Darwin's Bridge* raise and give substantial answers to questions such as: What is the precise trajectory of human evolution? What were the main factors driving the evolution of the human brain and human motivational system? How closely does life among contemporary hunter-gatherers mirror conditions of ancestral life? In what ways have genes and culture co-evolved, reciprocally influencing one another? How does selection at the level of individuals interact with selection among groups? How complete and adequate are our current models of human nature? How well do these models integrate ideas about human universals, individual identity, and specific cultures? How well can we now delineate the causal chains leading from elementary principles of evolutionary biology to specifically human forms of social organization, individual identity, and imaginative culture? Are human proclivities to make and consume works of art by-products of adaptations, or are they themselves adaptations? Can evolutionary thinking guide us in giving close analytic and explanatory attention to individual works of art?

Now the subject of a feature film that the New York Times calls "spellbinding" How does life work? How does nature produce the right numbers of zebras and lions on the African savanna, or fish in the ocean? How do our bodies produce the right numbers of cells in our organs and bloodstream? In *The Serengeti Rules*, award-winning biologist and author Sean Carroll tells the stories of the pioneering scientists who sought the answers to such simple yet profoundly important questions, and shows how their discoveries matter for our health and the health of the planet we depend upon. One of the most important revelations about the natural world is that everything is regulated—there are rules that regulate the amount of every molecule in our bodies and rules that govern the numbers of every animal and plant in the wild. And the most surprising revelation about the rules that regulate life at such different scales is that they are remarkably similar—there is a common underlying logic of life. Carroll recounts how our deep knowledge of the rules and logic of the human body has spurred the advent of revolutionary life-saving medicines, and makes the compelling case that it is now time to use the Serengeti Rules to heal our ailing planet. A bold and inspiring synthesis by one of our most accomplished biologists and gifted storytellers, *The Serengeti Rules* is the first book to illuminate how life works at vastly different scales. Read it and you will never look at the world the same way again.

In this fascinating book from the New York Times bestselling author of *The Horse*, Wendy Williams explores the lives of one of the world's most resilient creatures—the butterfly—shedding light on the role that they play in our ecosystem and in our human lives. Butterflies are one of the world's most beloved insects. From butterfly gardens to zoo exhibitions, they are one of the few insects we've encouraged to infiltrate our lives. Yet, what has drawn us to these creatures in the first place? And what are their lives really like? In this groundbreaking book, New York Times bestselling author and science journalist Wendy Williams reveals the inner lives of these "flying flowers"—creatures far more intelligent and tougher than we give them credit for. Monarch butterflies migrate thousands of miles each year from Canada to Mexico. Other species have learned how to fool ants into taking care of them. Butterflies' scales are inspiring researchers to

create new life-saving medical technology. Williams takes readers to butterfly habitats across the globe and introduces us to not only various species, but to the scientists who have dedicated their lives to studying them. Coupled with years of research and knowledge gained from experts in the field, this accessible “butterfly biography” explores the ancient partnership between these special creatures and humans, and why they continue to fascinate us today. Touching, eye-opening, and incredibly profound, *The Language of Butterflies* reveals the critical role they play in our world.

We not only share nearly 99% of our genes with chimps, we also have some 35% in common with daffodils. Throughout much of the animal and even plant kingdoms, almost the same ancient genes code for almost the same proteins. And further, to everyone's astonishment, the genes involved in making the complex eyes of fruitflies are close matches to those involved in making the very different eyes of octopuses and people. So what leads to the nature's 'endless forms most beautiful'? The key to this mystery is being unravelled by 'Evo Devo' or the new science of evolutionary development biology. By looking at how a single-celled egg gives rise to a complex, multi-billion celled animal, Evo Devo is illuminating exactly how new species - butterflies and zebras, trilobites and dinosaurs, apes and humans - are made and evolved. The key, it turns out, is all about location and timing... For anyone who has ever pondered 'where did I come from', *Endless Forms Most Beautiful* explores our history, both the journey we have all made from egg to adult, and the long trek from the origin of life to the very recent origin of our species.

Introduces the history and science of genetics through the story of an alien scientist researching humans to find a cure for an alien disease.

"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.

Volume III of *The Dragonriders of Pern*®, the influential series by sci-fi/fantasy titan Anne McCaffrey Never in the history of Pern has there been a dragon like Ruth. Mocked by other dragons for his small size and pure white color, Ruth is smart, brave, and loyal—qualities that he shares with his rider, the young Lord Jaxom. Unfortunately, Jaxom is also looked down upon by his fellow lords, and by other riders as well. His dreams of joining the dragonriders in defending Pern are dismissed. What else can Jaxom and Ruth do but strike out on their own, pursuing in secret all they are denied? But in doing so, the two friends will find themselves facing a desperate choice—one that will push their bond to the breaking point . . . and threaten the future of Pern itself.

Indigenous ways of understanding and interacting with the natural world are characterized as Traditional Ecological Knowledge (TEK), which derives from emphasizing relationships and connections among species. This book examines TEK and its strengths in relation to Western ecological knowledge and evolutionary philosophy. Pierotti takes a look at the scientific basis of this approach, focusing on different concepts of communities and connections among living entities, the importance of understanding the meaning of relatedness in both spiritual and biological creation, and a careful comparison with evolutionary ecology. The text examines the themes and principles informing this knowledge, and offers a look at the complexities of conducting research from an indigenous perspective.

The literature of paleobiology is brimming with qualifiers and cautions about using species in the fossil record, or equating such species with those recognized among living organisms. *Species and Speciation in the Fossil Record* digs through this literature and surveys the recent research on species in paleobiology. In these pages, experts in the field examine what they think species are in their particular taxon of specialty or more generally in the fossil record. They also reflect on what the answers mean for thinking about species in macroevolution. The first step in this approach is an overview of the Modern Synthesis, and paleobiology's development of quantitative ways of documenting and analyzing variation with fossil assemblages. Following that, this volume's central chapters explore the challenges of recognizing and defining species from fossil specimens, and show how with careful interpretation and a clear species concept, fossil species may be sufficiently robust for meaningful paleobiological analyses. Tempo and mode of speciation over time are also explored, exhibiting how the concept of species, if more refined, can reveal enormous amounts about the interplay between species origins and extinction and local and global climate change."

*A Collection of True Tales of Animal Empathy and Altruism that will Inspire Us to Reflect on Our Own Human Nature* What do stories about humpback whales protecting a biologist from a shark, a pride of lions rescuing a girl from kidnappers, gorillas working together to dismantle poacher snares, a parrot warding off an attacker in a park, a chimpanzee consoling a human, and an elephant trying to rescue a baby rhino tell us about animal nature? And what might they suggest about our very own human nature? Until just a few decades ago, there were only a few animals reported to behave empathetically and altruistically. More recently, the list of species who have been observed behaving in compassionate, helpful, and caring ways has grown exponentially, ranging from rats to elephants. *Rescued by a Whale* presents dozens of astonishing and heart-warming stories about animals, such as chickens, horses, dolphins, and wolves, who engage in acts of helpful kindness. During a time in history when studies show that human empathy is decreasing, our knowledge about animal empathy is increasing. These true tales of heroism, kindness, and compassion suggest that we have far more in common with other animals than we once believed and provocatively suggest that what's best about our human natures just might be our animal natures.

A “certainly weird . . . strangely wonderful . . . [and] often irresistible” search to find the real Garden of Eden (*The New York Times Book Review*). Where, precisely, was God's Paradise? St.

Augustine had a theory. So did medieval monks, John Calvin and Christopher Columbus. But when Darwin's theory of evolution changed our understanding of human origins, shouldn't the desire to put a literal Eden on the map have faded away? Not so fast. This "gloriously researched, pluckily written historical and anecdotal essay of humankind's age-old quixotic quest for the exact location of the Biblical garden" (Elle) explores an obsession that has consumed scientists and theologians alike for centuries. To this day, the search continues, taken up by amateur explorers, clergymen, scholars, engineers and educators—romantic seekers all who started with the same simple-sounding Bible verses, only to end up at a different spot on the globe: Sri Lanka, the Seychelles, the North Pole, Mesopotamia, China, Iraq—and Ohio. Inspired by an Eden seeker in her own family, "Wilensky-Lanford approaches her subjects with respect, enthusiasm and conscientious research" (San Francisco Chronicle) as she traverses a century-spanning history provoking surprising insights into where we came from, what we did wrong, and where we go from here. And it all makes for "a lively journey" (Kirkus Reviews).

Evolutionary Biologist, Douglas Emlen and Science Writer, Carl Zimmer continue to improve their widely-praised evolution textbook. Emlen, an award-winning evolutionary biologist at the University of Montana, has infused *Evolution: Making Sense of Life* with the technical rigor and conceptual depth that today's biology majors require. Zimmer, an award-winning New York Times columnist, brings compelling storytelling to the book, bringing evolutionary research to life through a narrative sure to capture the attention of evolution students. With riveting stories about evolutionary biologists at work everywhere from the Arctic to tropical rainforests to hospital wards, the book is a reading adventure designed to grab the imagination of students, showing them exactly why it is that evolution makes such brilliant sense of life. The new edition of *Evolution: Making Sense of Life* is now supported in SaplingPlus. Created and supported by the author and other educators, SaplingPlus's instructional online homework drives student success and saves educators' time. Automatically graded homework problem contains hints, answer-specific feedback, and solutions to ensure that students find the help they need.

Dynamic naturalist Michael Blencowe has travelled the globe to uncover the fascinating backstories of eleven extinct animals, which he shares with charm and insight in *Gone*. Inspired by his childhood obsession with extinct species, Blencowe takes us around the globe – from the forests of New Zealand to the ferries of Finland, from the urban sprawl of San Francisco to an inflatable crocodile on Brighton's Widewater Lagoon. Spanning five centuries, from the last sighting of New Zealand's Upland Moa to the 2012 death of the Pinta Island Giant Tortoise, Lonesome George, his memoir is peppered with the accounts of the hunters and naturalists of the past as well as revealing conversations with the custodians of these totemic animals today. Featuring striking artworks that resurrect these forgotten creatures, each chapter focuses on a different animal, revealing insights into their unique characteristics and habitats; the history of their discovery and just how and when they came to be lost to us. Blencowe inspects the only known remains of a Huia egg at Te Papa, New Zealand; views hundreds of specimens of deceased Galapagos tortoises and Xerces Blue butterflies in the California Academy of Sciences; and pays his respects to the only soft tissue remains of the Dodo in the world. Warm, wry and thought-provoking, *Gone* shows that while each extinction story is different, all can inform how we live in the future. Discover and learn from the stories of the: · Great Auk. A majestic flightless seabird of the North Atlantic and the 'original penguin'. · Spectacled Cormorant. The 'ludicrous bird' from the remote islands of the Bering Sea. · Steller's Sea Cow. An incredible ten tonne dugong with skin as furrowed as oak bark. · Upland Moa. The improbable birds and the one-time rulers of New Zealand. · Huia. The unique bird with two beaks and twelve precious tail feathers. · South Island Kōkako. The 'orange-wattled crow', New Zealand's elusive Grey Ghost. · Xerces Blue. The gossamer-winged butterfly of the San Francisco sand dunes. · Pinta Island Tortoise. The slow-moving, long-lived giant of the Galápagos Islands. · Dodo. The superstar of extinction. · Schomburgk's Deer. A mysterious deer from the wide floodplains of central Thailand. · Ivell's Sea Anemone. A see-through sea creature known only from southern England. A modern must-read for anyone interested in protecting our earth and its incredible wildlife, *Gone* is an evocative call to conserve what we have before it is lost forever.

Travel to the land of Oz with Dorothy and find out what inspired the forthcoming film blockbuster *Oz: The Great and Powerful*

A geneticist discusses the role of DNA in the evolution of life on Earth, explaining how an analysis of DNA reveals a complete record of the events that have shaped each species and how it provides evidence of the validity of the theory of evolution.

An "exciting" true account of battling the elephant poachers of Zambia by the author of *Where the Crawdads Sing* and her fellow biologist (The Boston Globe). Intelligent, majestic, and loyal, with lifespans matching our own, elephants are among the greatest of the wonders gracing the African wilds. Yet, in the 1970s and 1980s, about a thousand of these captivating creatures were slaughtered in Zambia each year, killed for their valuable ivory tusks. When biologists Mark and Delia Owens, residing in Africa to study lions, found themselves in the middle of a poaching fray, they took the only side they morally could: that of the elephants. From the authors of *Secrets of the Savanna*, *The Eye of the Elephant* is "part adventure story, part wildlife tale," recounting the Owens's struggle to save these innocent animals from decimation, a journey not only to supply the natives with ways of supporting their villages, but also to cultivate support around the globe for the protection of elephants (The Boston Globe). Filled with daring exploits among disgruntled hunters, arduous labor on the African plains, and vivid depictions of various wildlife, this remarkable tale is at once an adventure story, a travelogue, a preservationist call to action, and a fascinating examination of both human and animal nature.

From the bestselling author of *E. B. White Read-Aloud Honor Book Liesl & Po* comes a timely and relevant adventure story about monsters of all kinds--and a girl brave enough to save them. Cordelia Clay loves the work she and her father do together: saving and healing the remarkable creatures around Boston at the end of the nineteenth century. Their home on Cedar Street is full to the brim with dragons, squelches, and diggles, and Cordelia loves every one of them. But their work must be kept secret--others aren't welcoming to outsiders and immigrants, so what would the people of Boston do to the creatures they call "monsters"? One morning, Cordelia awakens to discover that her father has disappeared--along with nearly all the monsters. With only a handful of clues and a cryptic note to guide her, Cordelia must set off to find out what happened to her father, with the help of her new friend Gregory, Iggy the farting filch, a baby dragon, and a small zuppy (zombie puppy, that is).

Astronomical discovery involves more than detecting something previously unseen. The reclassification of Pluto as a dwarf planet in 2006, and the controversy it generated, shows that discovery is a complex and ongoing process – one comprising various stages of research, interpretation and understanding. Ranging from Galileo's observation of Jupiter's satellites, Saturn's

rings and star clusters, to Herschel's nebulae and the modern discovery of quasars and pulsars, Steven J. Dick's comprehensive history identifies the concept of 'extended discovery' as the engine of progress in astronomy. The text traces more than 400 years of telescopic observation, exploring how the signal discoveries of new astronomical objects relate to and inform one another, and why controversies such as Pluto's reclassification are commonplace in the field. The volume is complete with a detailed classification system for known classes of astronomical objects, offering students, researchers and amateur observers a valuable reference and guide.

Ten Thousand Birds provides a thoroughly engaging and authoritative history of modern ornithology, tracing how the study of birds has been shaped by a succession of visionary and often-controversial personalities, and by the unique social and scientific contexts in which these extraordinary individuals worked. This beautifully illustrated book opens in the middle of the nineteenth century when ornithology was a museum-based discipline focused almost exclusively on the anatomy, taxonomy, and classification of dead birds. It describes how in the early 1900s pioneering individuals such as Erwin Stresemann, Ernst Mayr, and Julian Huxley recognized the importance of studying live birds in the field, and how this shift thrust ornithology into the mainstream of the biological sciences. The book tells the stories of eccentrics like Colonel Richard Meinertzhagen, a pathological liar who stole specimens from museums and quite likely murdered his wife, and describes the breathtaking insights and discoveries of ambitious and influential figures such as David Lack, Niko Tinbergen, Robert MacArthur, and others who through their studies of birds transformed entire fields of biology. Ten Thousand Birds brings this history vividly to life through the work and achievements of those who advanced the field. Drawing on a wealth of archival material and in-depth interviews, this fascinating book reveals how research on birds has contributed more to our understanding of animal biology than the study of just about any other group of organisms.

Remarkable Creatures Epic Adventures in the Search for the Origins of Species HMH

Making Sense examines the philosophical issues and disputes that lie behind the news headlines of the day. The book covers themes such as morality, the environment and religious faith through such news stories as the Clinton-Lewinsky affair, the war against terrorism and the siege at Waco. It interweaves philosophy and current affairs to create a compelling narrative that challenges how we make sense both of the world around us and of our own beliefs. Julian Baggini is the editor and co-publisher of The Philosophers' Magazine.

Thrilling true stories of female adventurers from around the world. Throughout history, women seeking adventure often faced opposition. But here are 25 remarkable women — from pilots to mountain climbers, deep-sea divers to Antarctic explorers — who defied expectations and made history. Included are Bessie Coleman, famously known as the first Black woman to earn a pilot's license (two years before Amelia Earhart!). But readers will also learn about lesser-known women, such as Diana Nyad, the first person to swim from Cuba to Florida without a shark cage, and Arunima Sinha, the first woman amputee to climb Mount Everest. Though their experiences are all different, these women have one thing in common: they didn't let anything get in the way of their dreams! Watch out world, the next generation of adventurers are about to get inspired.

A wonderfully readable account of scientific development over the past 700 years, focusing on the lives and achievements of individual scientists, by the bestselling author of In Search of Schrödinger's Cat In this ambitious new book, John Gribbin tells the stories of the people who have made science, and of the times in which they lived and worked. He begins with Copernicus, during the Renaissance, when science replaced mysticism as a means of explaining the workings of the world, and he continues through the centuries, creating an unbroken genealogy of not only the greatest but also the more obscure names of Western science, a dot-to-dot line linking amateur to genius, and accidental discovery to brilliant deduction. By focusing on the scientists themselves, Gribbin has written an anecdotal narrative enlivened with stories of personal drama, success and failure. A bestselling science writer with an international reputation, Gribbin is among the few authors who could even attempt a work of this magnitude. Praised as "a sequence of witty, information-packed tales" and "a terrific read" by The Times upon its recent British publication, The Scientists breathes new life into such venerable icons as Galileo, Isaac Newton, Albert Einstein and Linus Pauling, as well as lesser lights whose stories have been undeservedly neglected. Filled with pioneers, visionaries, eccentrics and madmen, this is the history of science as it has never been told before.

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