

Jellyfish A Natural History

Venom brings readers face to face with some of the most dangerous creatures on the planet, including jellyfish, snakes, and wasps, as it uncovers the story of venom. The book explores how venom is used for predation, defense, competition, and communication by an incredible diversity of species. It examines the unique methods that these species have evolved to create and deliver their deadly toxins. The book traces venom back to its origin in early jellyfish and sea anemones, and reveals how venoms have evolved dozens of times independently all across the animal kingdom since that time. And finally, it examines the relationships between these dangerous creatures and humans. Humans have not only learned to live with them, but also to benefit from them: scientists increasingly are harnessing the power of venom to create new drugs, treatments, and anti-venoms.

In this mesmerizing book of photography, acclaimed photographer David Liittschwager reveals the unnerving beauty of three notoriously mysterious sea creatures--the jellyfish, octopus, and seahorse--and how they perceive the world. The jellyfish, the octopus, and the seahorse are among the most wondrous species on Earth--as well as some of the most difficult to document using traditional photography methods. Enter celebrated photographer David Liittschwager, who has spent decades developing specialized portraiture techniques to capture these creatures' pulsating bioluminescence, translucent bodies, and ethereal movements. This luminous collection showcases 200 of Liittschwager's most revealing photographs, paired with penetrating essays that explain how a creature without a brain or without bones perceives the world. Bestselling science writers Elizabeth Kolbert, Jennifer Holland, and Olivia Judson explain the biology and advanced cognitive abilities of these spineless denizens of the deep, exquisitely evoking their unnerving yet undeniable charisma. In these pages, you'll glimpse a seahorse only half an inch tall, a moon jelly spinning off a snowflake-shaped clone, and the blinking comb jelly, which may be the most ancient living animal on Earth. Both enlightening and profound, this enchanting book documents the expanding frontiers of marine science, creating a powerful testament to the value and beauty of these little-seen--and endangered--species.

Teaches the alphabet while providing facts about animals that begin with each letter, from armadillo to zebra.

The Marine World is a book for everyone with an interest in the ocean, from the marine biologist or student wanting expert knowledge of a particular group to the naturalist or diver exploring the seashore and beyond. With colour illustrations, line drawings, more than 1,500 colour photographs, and with clear accessible text, this book encompasses all those organisms that live in, on and around the ocean, bringing together in a single text everything from the minuscule to the immense. It includes sections on all but the most obscure marine groups, covering invertebrate phyla from

sponges to sea squirts, as well as plants, fungi, bacteria, fish, reptiles, mammals and birds. It incorporates information on identification, distribution, structure, biology, ecology, classification and conservation of each group, addressing the questions of 'what?', 'where?' and 'how?'. Today global warming, overfishing, ocean acidification and pollution are just a few of the ever increasing number of threats and challenges faced by ocean life. Without knowledge of the animals, plants and other organisms that live in the marine world, we cannot hope to support or implement successful conservation and management measures, nor truly appreciate the incredible wealth and variety of marine life. The Marine World is the product of a lifetime spent by Frances Dipper happily observing and studying marine organisms the world over. It has been brought to colourful life by a myriad of enthusiastic underwater photographers and by Marc Dando, the renowned natural history illustrator.

“Easily shareable with sibs of different ages, and they’ll be delighted to join in on the goofy brotherly song.” —Bulletin Center Children’s Books (starred review) “Poetic, unusual vocabulary...make the text fun to read aloud.” —Booklist “Johnston writes in a quirky, sweet voice that keeps the narrative moving along...watercolors by Dove have a cheery vintage feel.” —Publishers Weekly When two jellyfish brothers are separated at sea it takes all of the ocean’s creatures to help them reunite in this heartwarming tale of brotherly love. Spencer and Vincent are jellyfish brothers who live together in the sea, their wet and shining home. They invented a little song which went like this: My brother, my brother, he’s sweet, not smelly. I love him from down in my jelly belly. One day a wave of superior magnitude separates them! The brothers know they have to do whatever it takes to find each other again. And they’ll need some help along the way... Sometimes friends can really make a the difference. Spencer and Vincent is a story of adventures and the bond of family.

Where do we go when we die? Use this vibrantly illustrated story to guide your kids through the grieving process, with the help of a jellyfish that eternally regenerates and a young boy missing his grandfather. When a young boy's grandfather dies suddenly, he feels overwhelmed and confused. They will never see each other again. To his delight, they meet again in a dream, where his grandfather takes him to Transfer City, where our departed loved ones live on through our memories. In this modern, Eastern telling of the afterlife, death is not an ending, but a new start to life, just like the Immortal Jellyfish which is constantly maturing and then regressing, staying as present as our deceased loved ones do in our memories. From the Chinese illustrator, Sang Miao, whose Out Out Away from Here was praised as "superb" by the New York Times, this cloth bound picture book printed on FSC certified paper is as beautiful to hold as it is essential for little kids asking the big questions.

Enter the world of oceans and the animals that live in them. Swim with jellyfish, wonder at the busy life of a seagrass

meadow, and fence with narwhals. Fish, sharks, whales, and invertebrates swim through the pages of this colorful ocean book, which combines gorgeous illustrations and photos to help young enthusiasts learn all about the world's oceans. From glowing jellyfish to deep sea dwellers, they'll discover the incredible secret world of life under the sea. They'll also find out how they can help take care of the ocean themselves. *Earth's Incredible Oceans*, written by ocean expert Jess French and illustrated by Claire McElfrick, takes children on a fascinating underwater journey, showing them just how amazing oceans are, what plants and animals live in them, and how we can help them. It includes all sorts of ocean life, plus amazing facts on how ocean animals have fun, look after their young, and interact with each other. Discusses why the jellyfish population has exploded in recent years and why their dominance is indicative of a declining ocean ecosystem.

Many people want to learn how to keep and grow jellyfish in aquariums, but don't know where to start. Though the scientific literature contains clues, the language can be cryptic for the uninitiated, and the references can be tricky to track down without access to a well-stocked university library. In this first-of-its-kind guide, Chad L. Widmer presents in plain language some proven methods for jellyfish husbandry. With some study, attention to detail, and a little pioneer spirit, you'll soon be enjoying your own jellies, along with your newfound jelly-keeping skills.

The vast savannas and great migrations of the Serengeti conjure impressions of a harmonious and balanced ecosystem. But in reality, the history of the Serengeti is rife with battles between human and non-human nature. In the 1890s and several times since, the cattle virus rinderpest—at last vanquished in 2008—devastated both domesticated and wild ungulate populations, as well as the lives of humans and other animals who depended on them. In the 1920s, tourists armed with the world's most expensive hunting gear filled the grasslands. And in recent years, violence in Tanzania has threatened one of the most successful long-term ecological research centers in history. *Serengeti IV*, the latest installment in a long-standing series on the region's ecology and biodiversity, explores the role of our species as a source of both discord and balance in Serengeti ecosystem dynamics. Through chapters charting the complexities of infectious disease transmission across populations, agricultural expansion, and the many challenges of managing this ecosystem today, this book shows how the people and landscapes surrounding crucial protected areas like Serengeti National Park can and must contribute to Serengeti conservation. In order to succeed, conservation efforts must also focus on the welfare of indigenous peoples, allowing them both to sustain their agricultural practices and to benefit from the natural resources provided by protected areas—an undertaking that will require the strengthening of government and education systems and, as such, will present one of the greatest conservation challenges of the next century.

"Gould himself is a rare and wonderful animal—a member of the endangered species known as the ruby-throated polymath. . . . [He] is a leading theorist on large-scale patterns in evolution . . . [and] one of the sharpest and most humane thinkers in the sciences." --David Quammen, *New York Times Book Review*

A basic exploration of the appearance, behavior, and habitat of jellyfish, the bell-shaped, oceanic invertebrates. Also included is a story from folklore explaining why jellyfish have squishy bodies.

Jellyfish are, like the mythical Medusa, both beautiful and potentially dangerous. Found from pole to tropic, these mesmerizing creatures form an

important part of the sea's plankton and vary in size from the gigantic to the minute. Perceived as almost alien creatures and seen as best avoided, jellyfish nevertheless have the power to fascinate: with the sheer beauty of their translucent bells and long, trailing tentacles, with a mouth that doubles as an anus, and without a head or brain. Drawing upon myth and historical sources as well as modern scientific advances, this book examines our ambiguous relationship with these ancient and yet ill-understood animals, describing their surprisingly complex anatomy, weaponry, and habits, and their vital contributions to the ocean's ecosystems.

Delicate jellyfish and anemones, octopus, tentacled squid, and bizarre-looking soft-bodied sea creatures were meticulously recreated in glass by father and son artists Leopold and Rudolf Blaschka in the late nineteenth century. Renowned for their beauty and exacting detail, the Blaschka invertebrate models were commissioned by universities and museums throughout the world as teaching models for students of natural science and marine life. Illustrated here for the first time with breathtaking new photography are 60 of the most exquisite models from the exceptional collection of Harvard University's Museum of Comparative Zoology. Together with Harvard's famous Glass Flowers, a new exhibit of these restored glass animals now comprises the largest Blaschka collection on display in the world. Bursting with intricate details and stunning photography, this elegantly designed book will be a must for all those interested in marine biology, the delicate art of glass craftsmanship, the history of science, and the quiet beauty of the natural world."

Jellyfish are mysterious creatures, luminously beautiful with remarkably varied life cycles. These ancient animals are found in every ocean at every depth, and have lived on Earth for at least 500 million years. Jellyfish looks at their anatomy, life history, taxonomy and ecology, and includes species profiles featuring stunning marine photography.

Jellyfish aren't really fish at all! These spineless sea-dwellers use their umbrella-shaped bells to swim, while their long tentacles sting prey. Learn what they eat and how they survive in the big ocean.

Slime is an ambiguous thing. It exists somewhere between a solid and liquid. It inspires revulsion even while it compels our fascination. It is both a vehicle for pathogens and the strongest weapon in our immune system. Most of us know little about it and yet it is the substance on which our world turns. Slime exists at the interfaces of all things: between the different organs and layers in our bodies, and between the earth, water, and air in the environment. It is often produced in the fatal encounter between predator and prey, and it is a vital presence in the reproductive embrace between female and male. In this ground-breaking and fascinating book, Susanne Wedlich leads us on a scientific journey through the 3 billion year history of slime, from the part it played in the evolution of life on this planet to the way it might feature in the post-human future. She also explores the cultural and emotional significance of slime, from its starring role in the horror genre to its subtle influence on Art Nouveau. Slime is what connects Patricia Highsmith's fondness for snails, John Steinbeck's aversion to hagfish, and Emperor Hirohito's passion for jellyfish, as well as the curious mating practices of underwater gastropods and the miraculous functioning of the human gut. Written with authority, wit and eloquence, Slime brings this most nebulous and neglected of substances to life.

Describes the physical characteristics, habits, and natural environment of many species of jellyfish, through simple text and photographs.

A delightfully illustrated guide to harnessing the rhythms of nature for self-care. We could all learn a thing or two about living in

balance from our friends in the plant and animal kingdom. Take, for example, the jellyfish, one of the most energy-efficient animals in the world, moving through the ocean by contracting and relaxing, with frequent breaks in between. Or the avocado tree, which can credit its existence to a mutually beneficial relationship with the pre-historic sloth, followed by some hungry, hungry humans and the advent of agriculture. And then there is the oyster, producing a pearl as the result of an immune response when a grain of sand invades her system. What better example exists of how adversity can produce something beautiful? We need look no farther than nature—from the habits of the porcupine to the sunflower to the wombat to the dragonfly—for small and simple things we can do to slow down, recharge, and living more thoughtfully, lovingly, and harmoniously. *Wisdom From a Humble Jellyfish . . .* is at once charming and scientific, packed with essential wisdom and practical tips worth borrowing from our plant and animal friends for life-changing self-care.

Jellyfish coloring book for adults. A beautiful adult coloring book of delightful jellyfish and ocean designs. Contains thirty-five full page images. Carefully curated designs will provide hours of fun, stress relief, creativity, and relaxation. This jellyfish coloring book for grownups features: A variety of styles sure to please all levels of colorists Each jellyfish coloring page is printed on a single side making them easy to remove for display Each page is professionally composed to provide the highest quality Perfect for anyone who enjoys jellyfish, sea life, marine life, oceans Each page is 8 1/2 inches by 11 inches Printed on bright white paper Categories: animal coloring books for adults, adult coloring books jellyfish, coloring books for grown-ups, animal designs coloring book, jellyfish coloring book

A fascinating chronicle of the evolution of humankind traces the genetic history of the organs of the human body, offering a revealing correlation between the distant past and present-day human anatomy and physiology, behavior, illness, and DNA. Reprint. 75,000 first printing.

Jellyfish are one of the most conspicuous animals in our oceans and are renowned for their propensity to form spectacular blooms. The unique features of the biology and ecology of jellyfish that enable them to bloom also make them successful invasive species and, in a few places around the world, jellyfish have become problematic. As man increasingly populates the world's coastlines, interactions between humans and jellyfish are rising, often to the detriment of coastal-based industries such as tourism, fishing and power generation. However we must not lose sight of the fact that jellyfish have been forming blooms in the oceans for at least 500 million years, and are an essential component of normal, healthy ocean ecosystems. Here many of the world's leading jellyfish experts explore the science behind jellyfish blooms. We examine the unique features of jellyfish biology and ecology that cause populations to 'bloom and bust', and, using case studies, we show why jellyfish are important to coastal and ocean ecosystem function. We outline strategies coastal managers can use to mitigate the effects of blooms on coastal industries thereby enabling humans to coexist with these fascinating creatures. Finally we highlight how jellyfish benefit society; providing us with food and one of the most biomedically-important compounds discovered in the 20th century. ?

By one of Britain's most gifted scientists: a magnificently daring and compulsively readable account of life on Earth (from the "big

bang" to the advent of man), based entirely on the most original of all sources--the evidence of fossils. With excitement and driving intelligence, Richard Fortey guides us from the barren globe spinning in space, through the very earliest signs of life in the sulphurous hot springs and volcanic vents of the young planet, the appearance of cells, the slow creation of an atmosphere and the evolution of myriad forms of plants and animals that could then be sustained, including the magnificent era of the dinosaurs, and on to the last moment before the debut of Homo sapiens. Ranging across multiple scientific disciplines, explicating in wonderfully clear and refreshing prose their findings and arguments--about the origins of life, the causes of species extinctions and the first appearance of man--Fortey weaves this history out of the most delicate tracers left in rock, stone and earth. He also explains how, on each aspect of nature and life, scientists have reached the understanding we have today, who made the key discoveries, who their opponents were and why certain ideas won. Brimful of wit, fascinating personal experience and high scholarship, this book may well be our best introduction yet to the complex history of life on Earth. A Book-of-the-Month Club Main Selection With 32 pages of photographs

From prehistory to the present, from individual cells to the dimensions of the cosmos, these vignettes describe the network of evolutionary ties that bind all organisms to one another.

The medusa is a tiny jellyfish that lives on the ventral surface of a sea slug found in the Bay of Naples. Readers will find themselves caught up in the fate of the medusa and the snail as a metaphor for eternal issues of life and death as Lewis Thomas further extends the exploration of man and his world begun in *The Lives of a Cell*. Among the treasures in this magnificent book are essays on the human genius for making mistakes, on disease and natural death, on cloning, on warts, and on Montaigne, as well as an assessment of medical science and health care. In these essays and others, Thomas once again conveys his observations of the scientific world in prose marked by wonder and wit.

Features fun facts about twenty-six creatures of the ocean, with one representing each letter of the alphabet, from anemone and blobfish to fiddler crabs, jellyfish, and vampire squid.

Dive into this uniquely elegant visual exploration of the sea An informative and utterly beautiful introduction to marine life and the ocean environment, *Oceanology* brings the riches of the underwater world onto the printed page. Astounding photography reveals an abundance of life, from microscopic plankton to great whales, seaweed to starfish. Published in association with the Smithsonian Institution, the book explores every corner of the oceans, from coral reefs and mangrove swamps to deep ocean trenches. Along the way, and with the help of clear, simple illustrations, it explains how life has adapted to the marine environment, revealing for example how a stonefish delivers its lethal venom and how a sponge sustains itself by sifting food from passing currents. It also examines the physical forces and processes that shape the oceans, from global circulation systems and tides to undersea volcanoes and tsunamis. To most of us, the marine world is out of reach. But with the help of photography and the latest technology, *Oceanology* brings us up close to animals, plants, and other living things that inhabit a fantastic and almost incomprehensibly beautiful other dimension.

Text and photographs present amazing facts about jellyfish.

At the end of the day, while Farmer Joe gets ready for bed, his animals tune their instruments to perform in a big concert as a rock band called Punk Farm.

The best comprehensive look at wildlife in Connecticut.

An engaging history of the surprising, poignant, and occasionally scandalous stories behind scientific names and their cultural significance, "More fun than you've ever had with taxonomy in your whole entire life!" (Diana Gabaldon, author of the Outlander series and PhD in Quantitative Behavioral Ecology) Ever since Carl Linnaeus's binomial system of scientific names was adopted in the eighteenth century, scientists have been eponymously naming organisms in ways that both honor and vilify their namesakes. This charming, informative, and accessible history examines the fascinating stories behind taxonomic nomenclature, from Linnaeus himself naming a small and unpleasant weed after a rival botanist to the recent influx of scientific names based on pop-culture icons--including David Bowie's spider, Frank Zappa's jellyfish, and Beyoncé's fly. Exploring the naming process as an opportunity for scientists to express themselves in creative ways, Stephen B. Heard's fresh approach shows how scientific names function as a window into both the passions and foibles of the scientific community and as a more general indicator of the ways in which humans relate to, and impose order on, the natural world.

"A book full of wonders" —Helen Macdonald, author of *H Is for Hawk* "Witty, insightful. . . .The story of jellyfish. . . is a significant part of the environmental story. Berwald's engaging account of these delicate, often ignored creatures shows how much they matter to our oceans' future." —New York Times Book Review Jellyfish have been swimming in our oceans for well over half a billion years, longer than any other animal that lives on the planet. They make a venom so toxic it can kill a human in three minutes. Their sting—microscopic spears that pierce with five million times the acceleration of gravity—is the fastest known motion in the animal kingdom. Made of roughly 95 percent water, some jellies are barely perceptible virtuosos of disguise, while others glow with a luminescence that has revolutionized biotechnology. Yet until recently, jellyfish were largely ignored by science, and they remain among the most poorly understood of ocean dwellers. More than a decade ago, Juli Berwald left a career in ocean science to raise a family in landlocked Austin, Texas, but jellyfish drew her back to the sea. Recent, massive blooms of billions of jellyfish have clogged power plants, decimated fisheries, and caused millions of dollars of damage. Driven by questions about how overfishing, coastal development, and climate change were contributing to a jellyfish population explosion, Juli embarked on a scientific odyssey. She traveled the globe to meet the biologists who devote their careers to jellies, hitched rides on Japanese fishing boats to see giant jellyfish in the wild, raised jellyfish in her dining room, and throughout it all marveled at the complexity of these alluring and ominous biological wonders. Gracefully blending personal memoir with crystal-clear distillations of science, *Spineless* is the story of how Juli learned to navigate and ultimately embrace her ambition, her curiosity, and her passion for the natural world. She discovers that jellyfish science is more than just a quest for answers. It's a call to realize our collective responsibility for the planet we share.

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This stunning debut novel about grief and wonder was an instant New York Times bestseller and captured widespread critical acclaim, including selection as a 2015 National Book Award finalist! After her best friend dies in a drowning accident, Suzy is convinced that the true cause of the tragedy must have been a rare jellyfish sting--things don't just happen for no reason. Retreating into a silent world of imagination, she crafts a plan to prove her theory--even if it means traveling the globe, alone. Suzy's achingly heartfelt journey explores life, death, the astonishing wonder of the universe...and the potential for love and hope right next door. Oddlot Entertainment has acquired the screen rights to *The Thing About Jellyfish*, with Gigi Pritzker set to produce with Bruna Papandrea and Reese Witherspoon.

There is a growing crisis in our oceans: mysterious outbreaks of infectious disease are on the rise. Marine epidemics can cause mass die-offs of wildlife from the bottom to the top of food chains, impacting the health of ocean ecosystems as well as lives on land. Portending global environmental disaster, ocean outbreaks are fueled by warming seas, sewage dumping, unregulated aquaculture, and drifting plastic. *Ocean Outbreak* follows renowned scientist Drew Harvell and her colleagues into the field as they investigate how four iconic marine animals--corals, abalone, salmon, and starfish--have been devastated by disease. Based on over twenty years of research, this firsthand account of the sometimes gradual, sometimes exploding impact of disease on our ocean's biodiversity ends with solutions and a call to action. Only through policy changes and the implementation of innovative solutions from nature can we reduce major outbreaks, save some ocean ecosystems, and protect our fragile environment.

Jellyfish A Natural History University of Chicago Press

QLD Premier's Book Awards -- Shortlisted Science Writer Award Awarded a 2010 Whitley Certificate of Commendation for Natural History

The largest, swiftest, highest-leaping, fastest-growing and most migratory fishes on the planet all live in the open ocean. Beautifully adapted to their world, they range from tiny drift fish and slow plankton-straining whale sharks to high-energy, streamlined predators such as tuna and marlin. *Fishes of the Open Ocean*, from Julian Pepperell, one of Australia's best-known marine biologists and world authority on oceanic fishes, is the first book to describe these fishes and detail their biology and the complex, often fragile world in which they live. This unique guide covers all major species including tuna, marlin, swordfish and pelagic sharks, as well as lesser-known ones such as flying fish, lancetfish, sunfish, pomfret, opah, louvar, fanfish and basking sharks.

Imagine a public storage system that has a place online for structured data about everything that exists—or that could exist. This book introduces Fluidinfo, a system that enables you to store information about anything, real or imaginary, in any digital form. You'll learn how to organize and search for data, and decide who can use, modify, and extend what you've contributed. This guide demonstrates Fluidinfo's potential to create social data, with facilities that encourage users and applications to share, remix, and reuse data in ways they may not have anticipated. You'll learn how to use tools for reading and writing data, and how to use Fluidinfo in your own applications by working with its writable API and simple query language. Read and write Fluidinfo data from web applications—and reuse and build upon each other's data Discover Fluidinfo's permissions system for tags and namespaces Learn how to use Fish, the command-line tool for interacting with Fluidinfo data Delve into Fluidinfo's RESTful API, and learn how to make HTTP requests Use Fluidinfo client libraries to build a simple Python utility or a JavaScript web application

Learn the fascinating story of one of the world's oldest animals: jellyfish! Jellyfish are everywhere and are one of the Earth's most fascinating animals. From the giant Nomura jellyfish in Japan, to the small but deadly kingslayer jellyfish in Australia, veteran nonfiction author Ginjer L. Clarke spotlights one of the world's oldest animal groups. Told with simple language and shown with vivid photographs, *Jellyfish!* is perfect for

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emerging readers curious about the natural world.

Describes the physical characteristics, habits, and natural environment of various species of jellyfish with a discussion of the dangerous aspects of certain species and methods of keeping jellyfish alive in aquariums.

Providing readers with a rare glimpse into one of the largest natural-science libraries in the Western Hemisphere, this fascinating collection of 40 essays from the American Museum of Natural History's top experts discuss the library's seldom-seen, fully illustrated scientific works.

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