

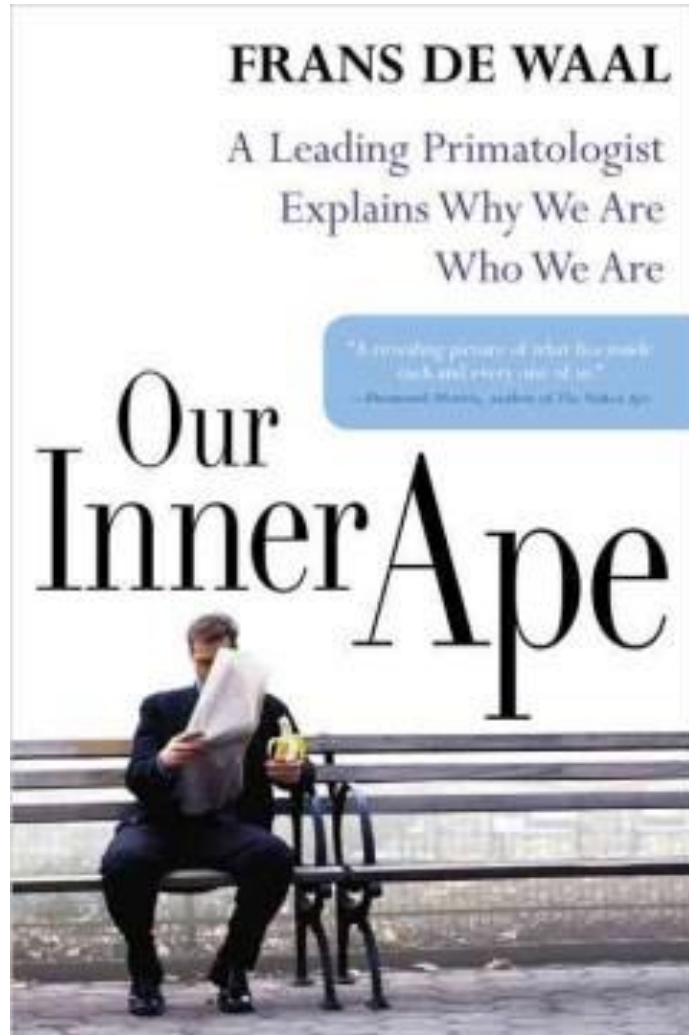
# AP Biology

## Curated Summer Reading List

Amalia Pimenta, Library-Media Specialist

Cascade High School

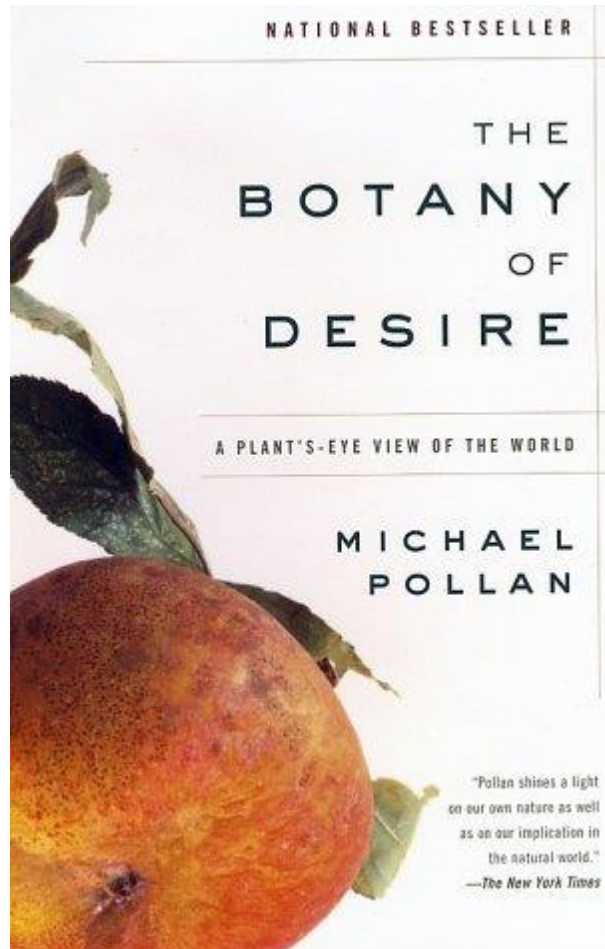
# Our Inner Ape *by Frans De Waal*



Presents the author's research on how human's DNA relationship with their closest biological relatives, primates such as chimpanzees and bonobos, influence and inform a wide range of human behavior.

# The Botany of Desire

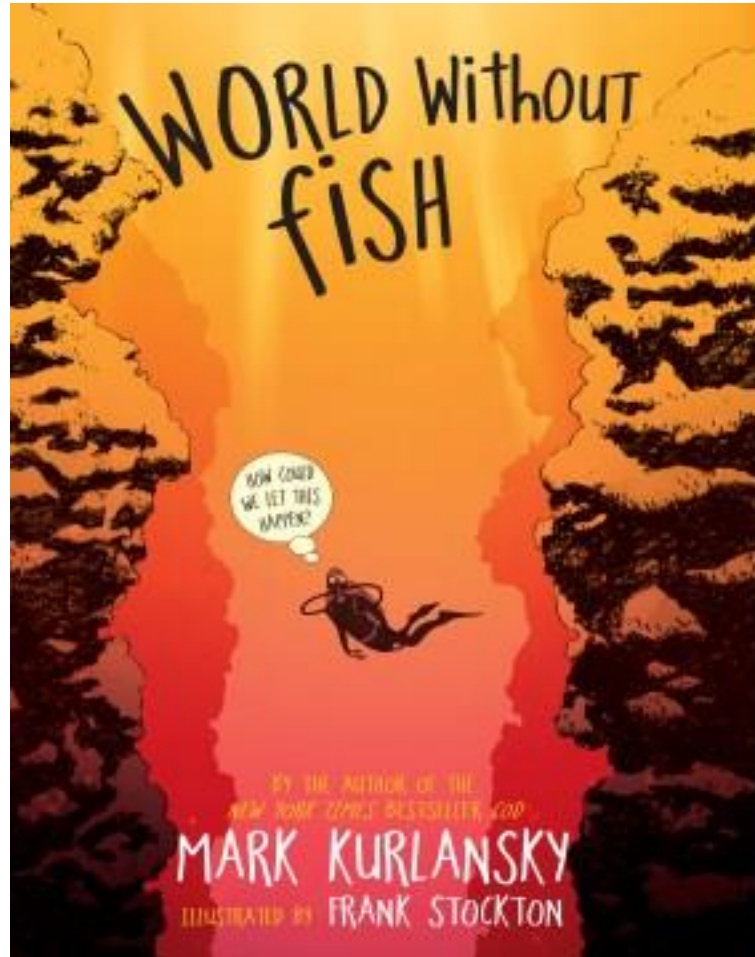
*by Michael Pollan*



Traces the history of four domesticated species, the apple, the tulip, marijuana, and the potato, from the plant's point of view and discusses how they have been cultivated to fill human needs and desires.

# World Without Fish

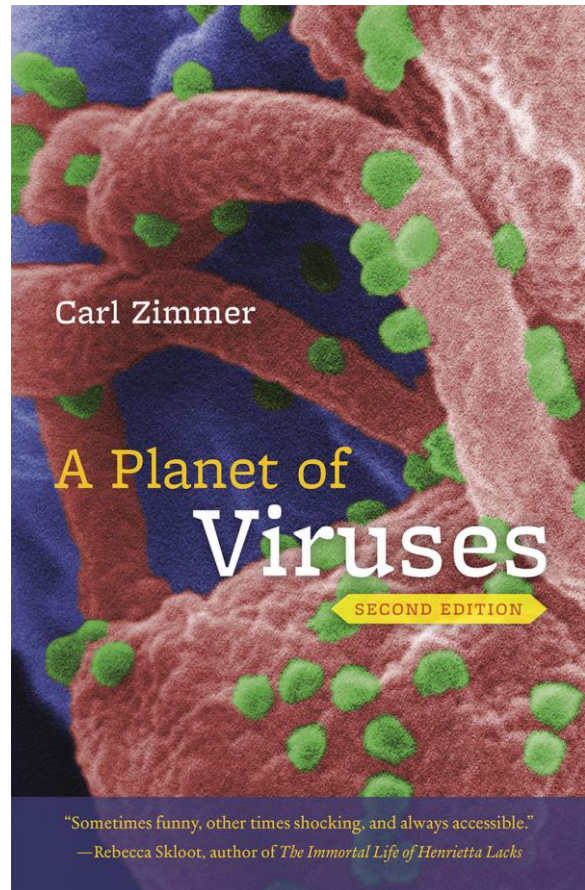
*by Mark Kurlansky*



Describes what is happening to fish, the oceans, and the environment in the early twenty-first century, explaining how commonly-consumed fish, such as tuna, cod, and salmon, are disappearing; and discussing the impact of overfishing on other species and the effects of fishing on the oceans.

# A Planet of Viruses

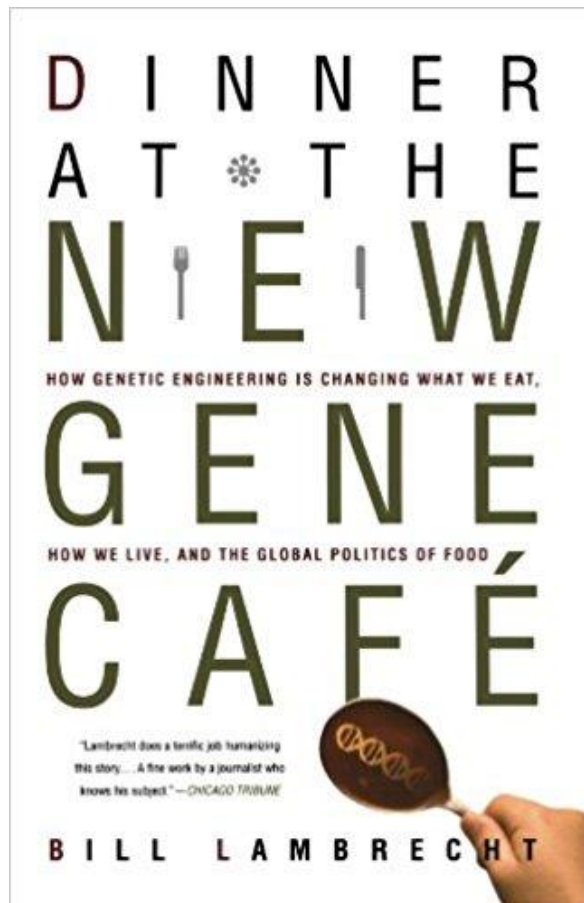
by Carl Zimmer



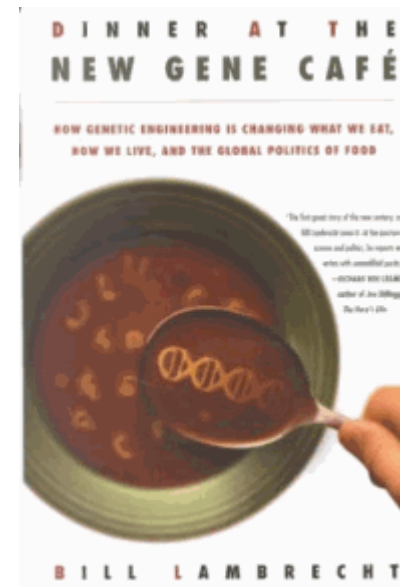
Explores the hidden world of viruses, explaining how they impact every aspect of life on Earth, describing the latest research into viruses, examining new treatments for deadly viruses, and tracing the evolution of viruses throughout history.

# Dinner at the New Gene Café

by Bill Lambrecht

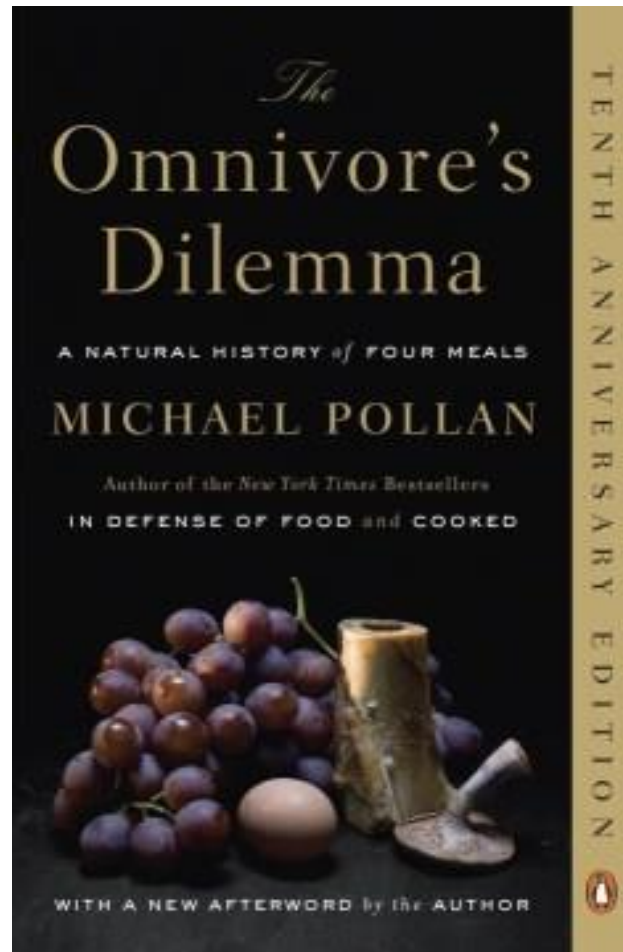


Examines how recent developments in genetic engineering are affecting every aspect of human life, including politics, health, culture, and happiness.



# Omnivore's Dilemma

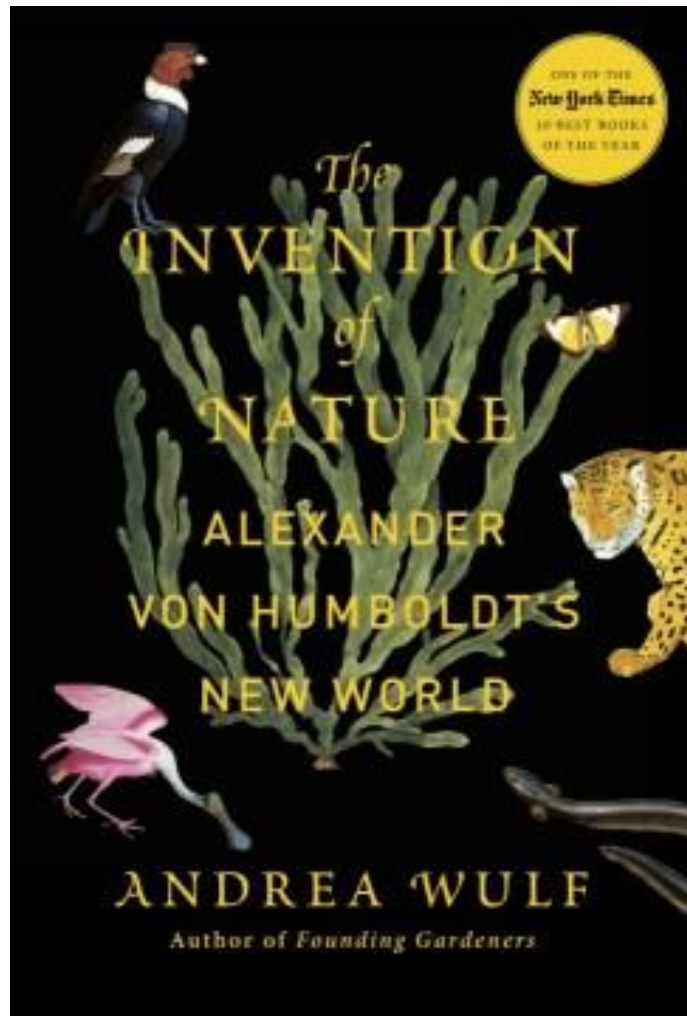
*by Michael Pollan*



Follows the three major food chains that feed humans--industrial, organic, and hunter-gatherer--from the earth to four meals, exploring the ethical and political effects of one's food choices.

# The Invention of Nature

*by Andrea Wulf*

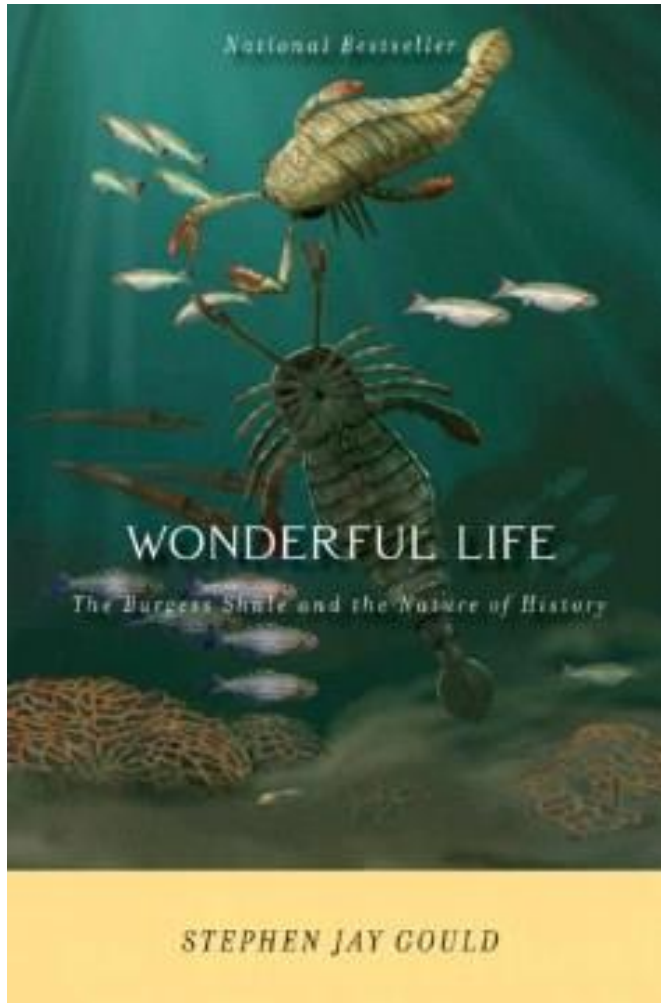


A portrait of the German naturalist reveals his ongoing influence on humanity's relationship with the natural world today, discussing such topics as his views on climate change, conservation, and nature as a resource for all life.



# Wonderful Life

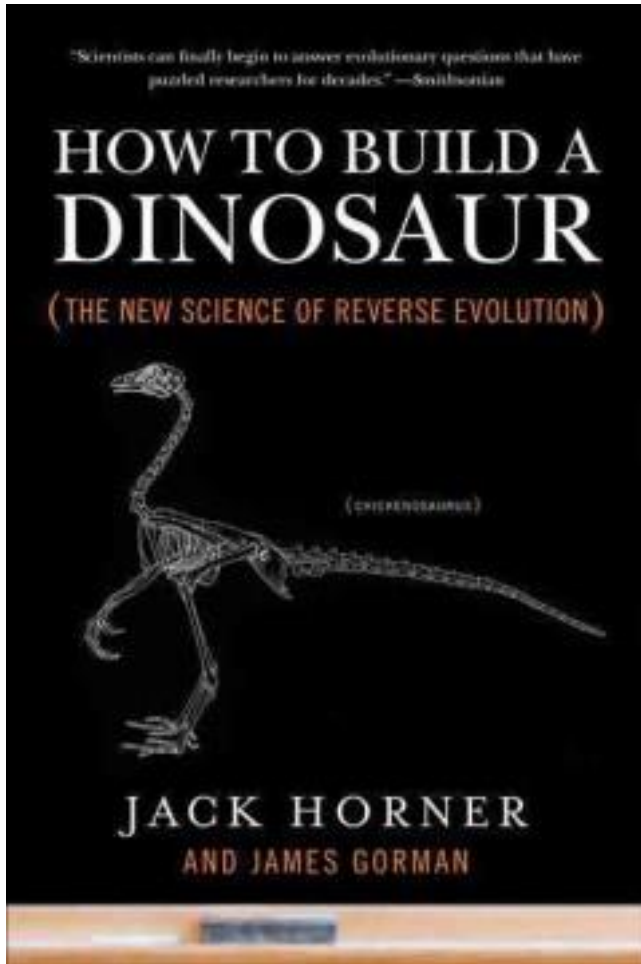
*by Stephen Jay Gould*



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.

# How to Build a Dinosaur

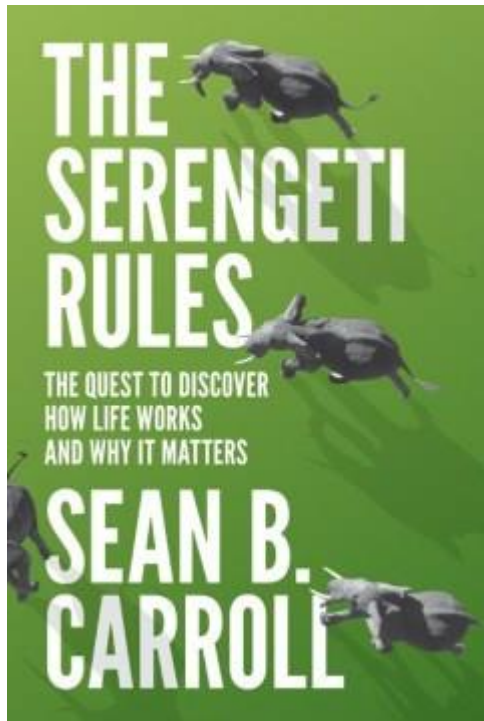
*by Jack Horner*



Jack Horner, the scientist who advised Steven Spielberg during his filming of Jurassic Park, reveals the fascinating innovations that science has brought to the study of dinosaurs. Examining scientific breakthroughs from the past 30 years, Horner predicts that one day dinosaurs will walk the earth again.

# The Serengeti Rules

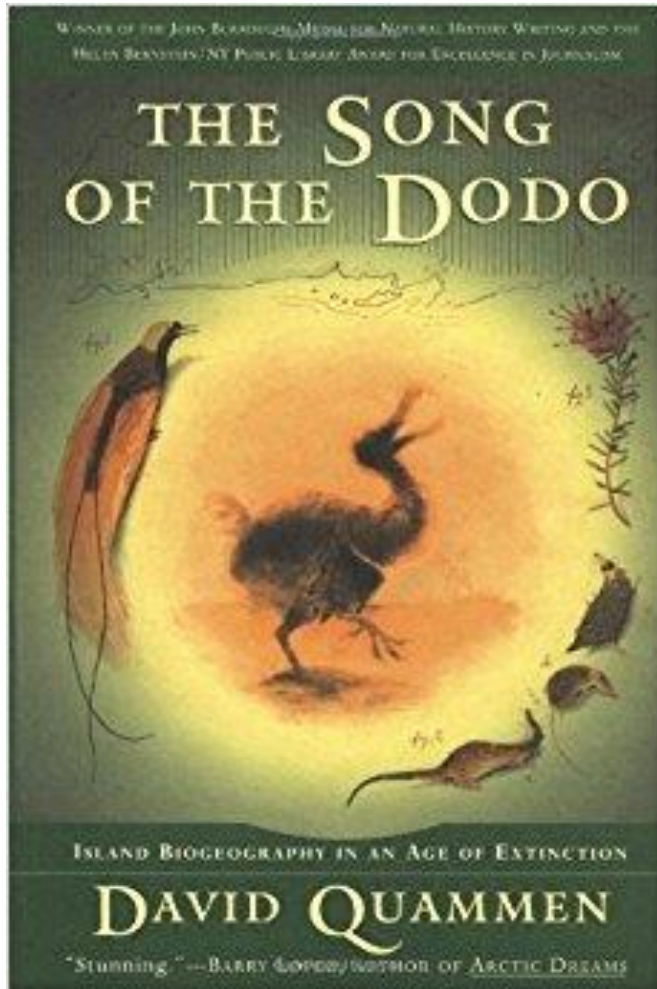
*by Sean B. Carroll*



Surveys the work of pioneering scientists to demonstrate how their findings about the natural laws of regulation prove relevant to human and environmental health.

# The Song of the Dodo

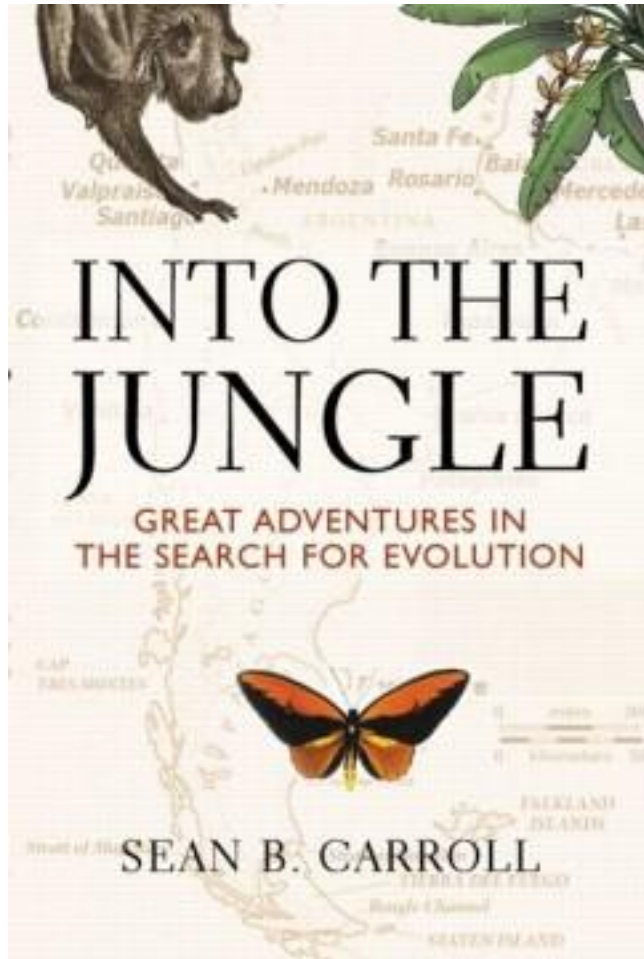
*by David Quammen*



Takes a close-up look at island biogeography, the science of the geographic distribution of life on islands, and its significance in terms of evolution and extinction.

# Into the Jungle

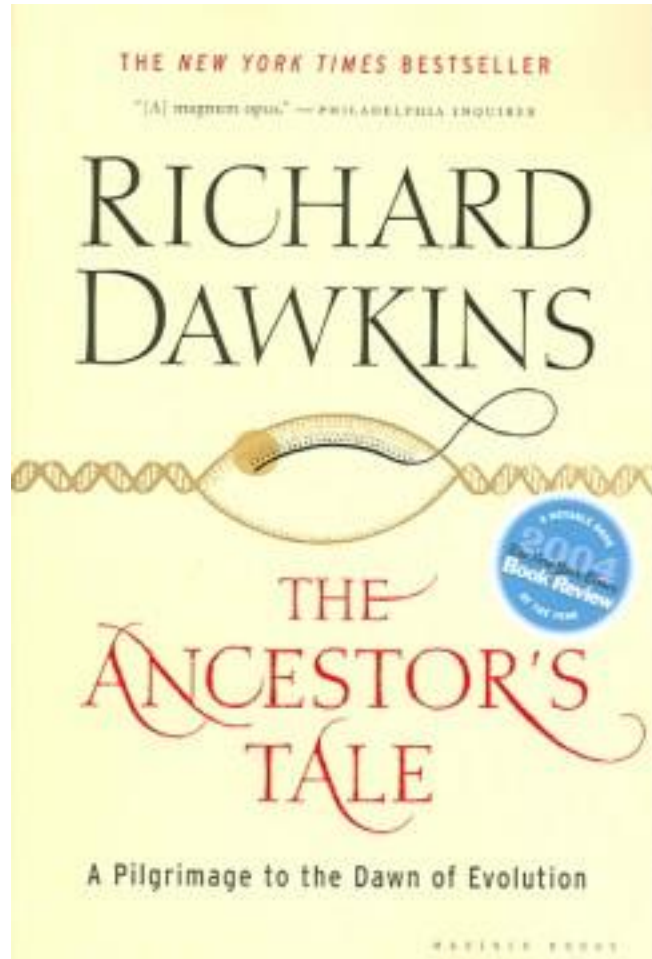
*by Sean B. Carroll*



Into the Jungle 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.

# The Ancestor's Tale

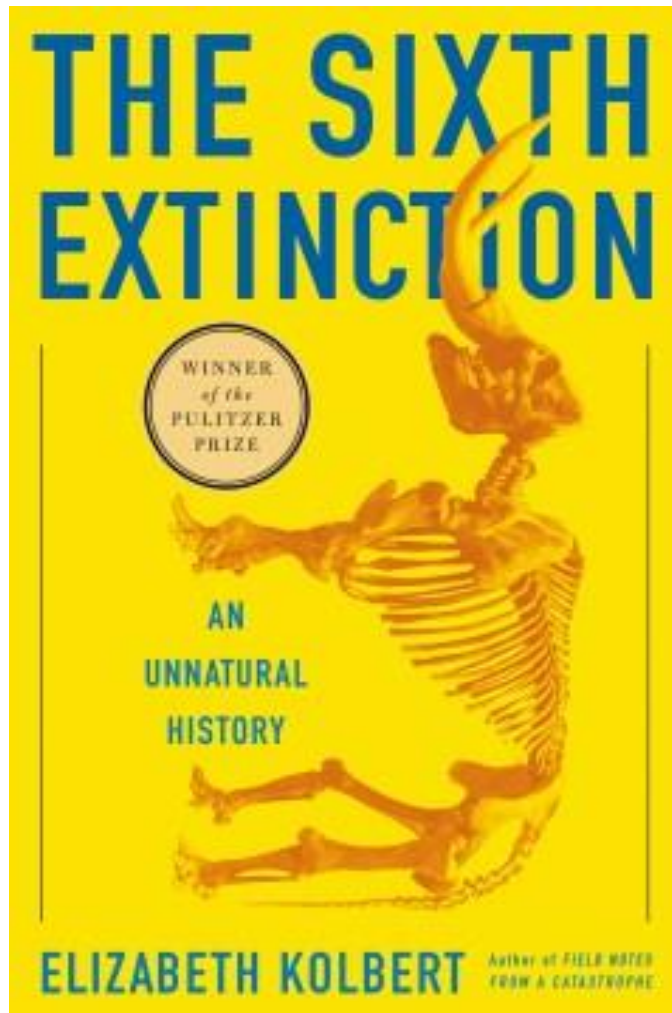
*by Richard Dawkins*



A renowned biologist provides a sweeping chronicle of more than four billion years of life on Earth, shedding new light on evolutionary theory and history, sexual selection, speciation, extinction, genetics, and geographical dispersal.

# The Sixth Extinction

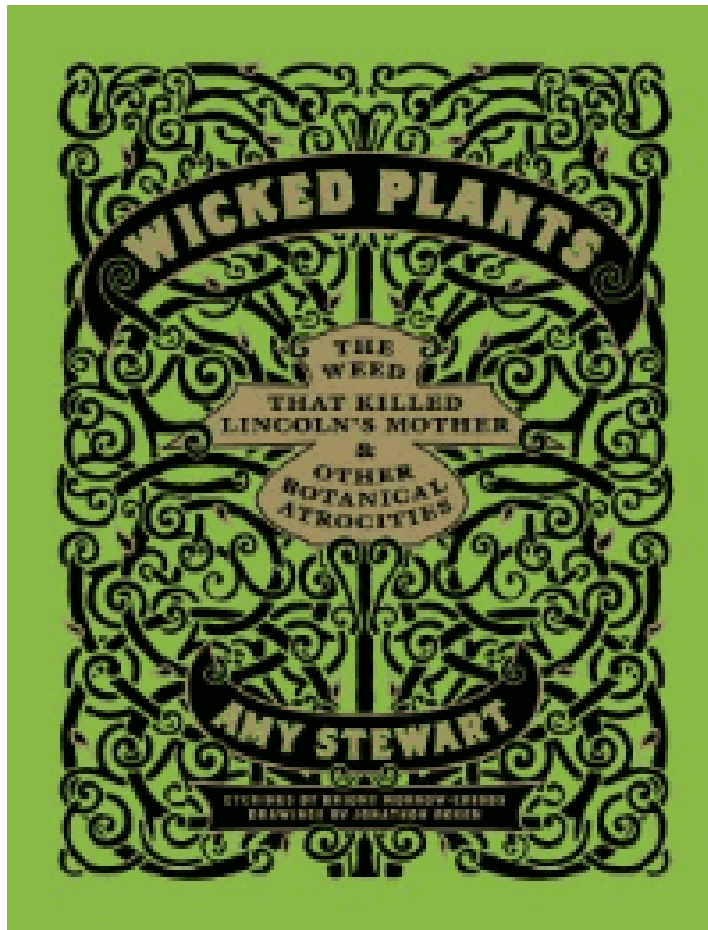
*by Elizabeth Kolbert*



Explores how human beings have altered life on Earth, discussing a dozen species facing extinction or already extinct.

# Wicked Plants

*by Amy Stewart*

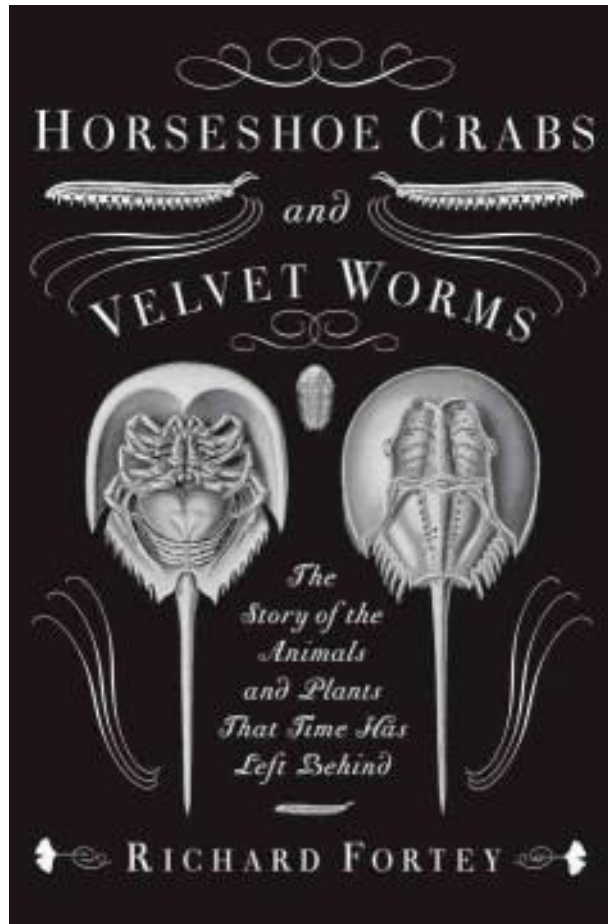


Contains  
alphabetically  
arranged entries that  
provide information on  
two hundred plants  
that are deadly,  
intoxicating, or  
offensive, and includes  
illustrations.



# Horseshoe Crabs and Velvet

## Worms *by Richard Fortey*



Presents a narrative tour of what living creatures reveal about the history of evolution, demonstrating how various organisms and ecosystems that survive from earlier periods reflect seminal events.

# A Sting in the Tale

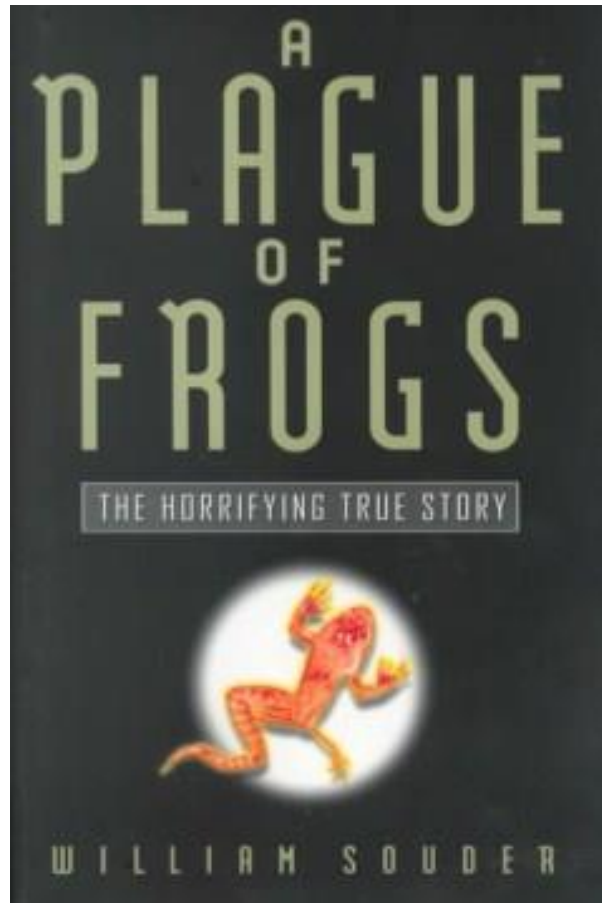
by Dave Goulson



Dave Goulson discusses his plans and attempts to reintroduce the bumblebee to the United Kingdom as well as presenting his research.

# A Plague of Frogs

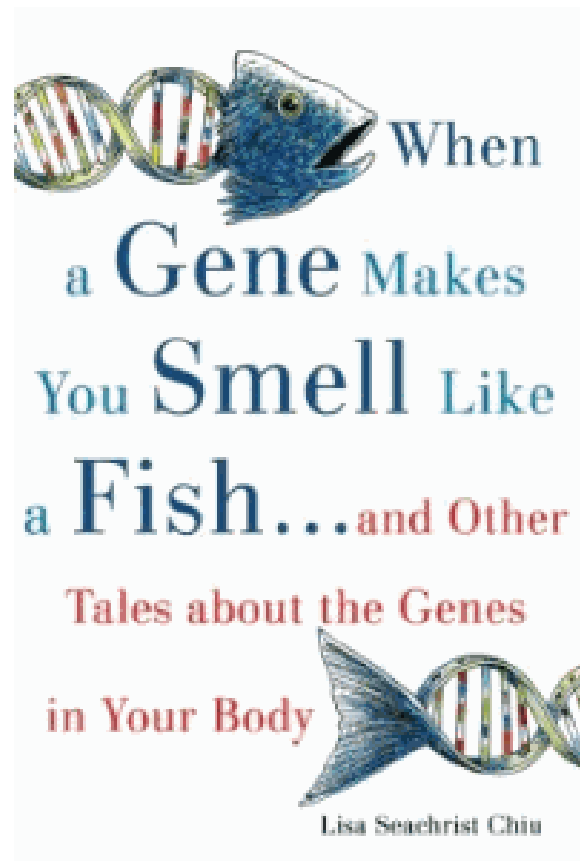
by William Souder



A group of Minnesota schoolchildren came upon a pond filled with deformed frogs which launched a four-year federal investigation into the possible pollution of local water supplies.

# When a Gene Makes You Smell Like a Fish...

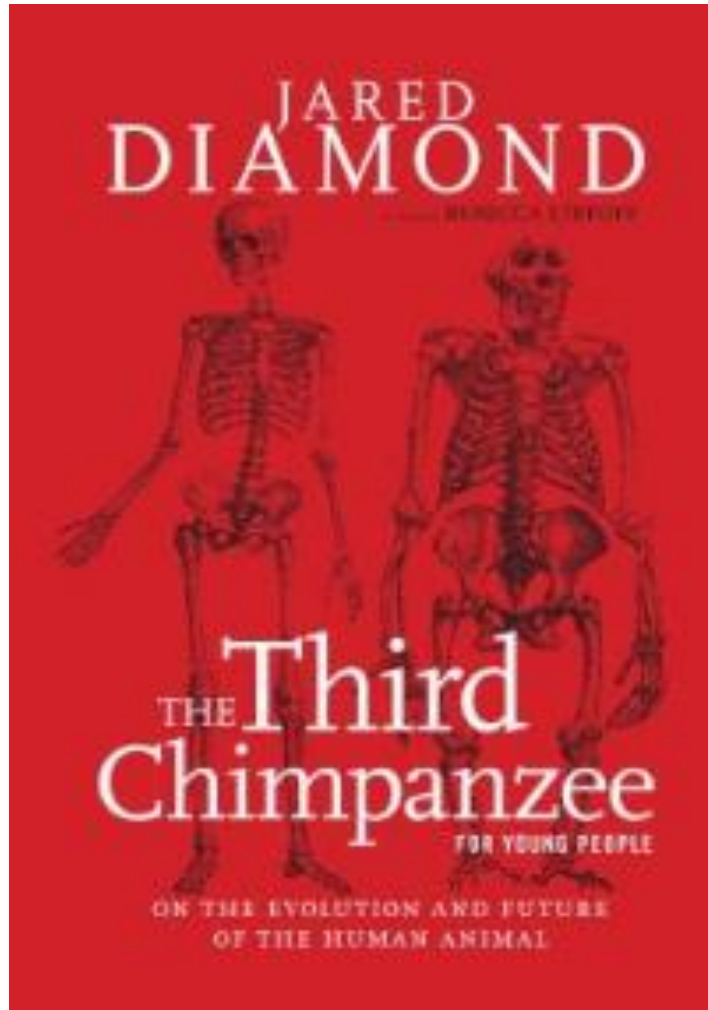
*by Lisa Seachrist Chiu*



Examines common and rare genetic disorders around the world, including the disorder's history and the research conducted by leading scientists to identify the **gene(s)** responsible.

# The Third Chimpanzee

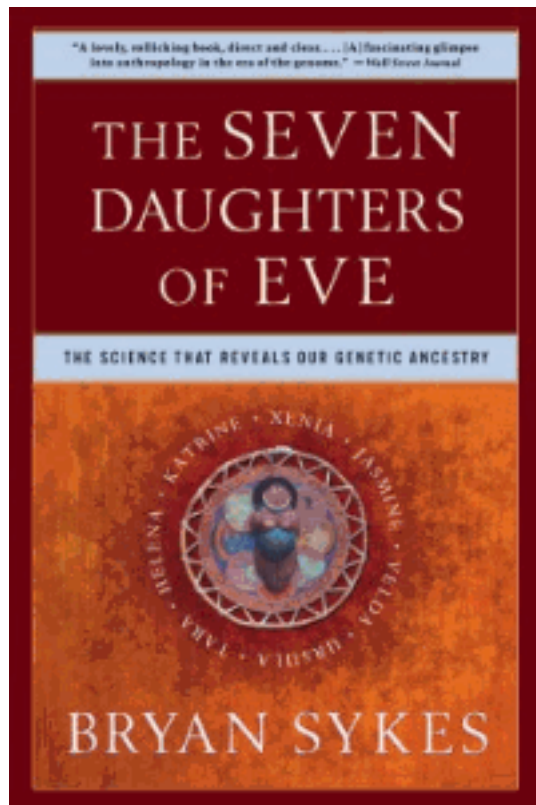
*by Jared Diamond*



Reflects on the puzzle of human revolution, on where we came from and where we may be heading.

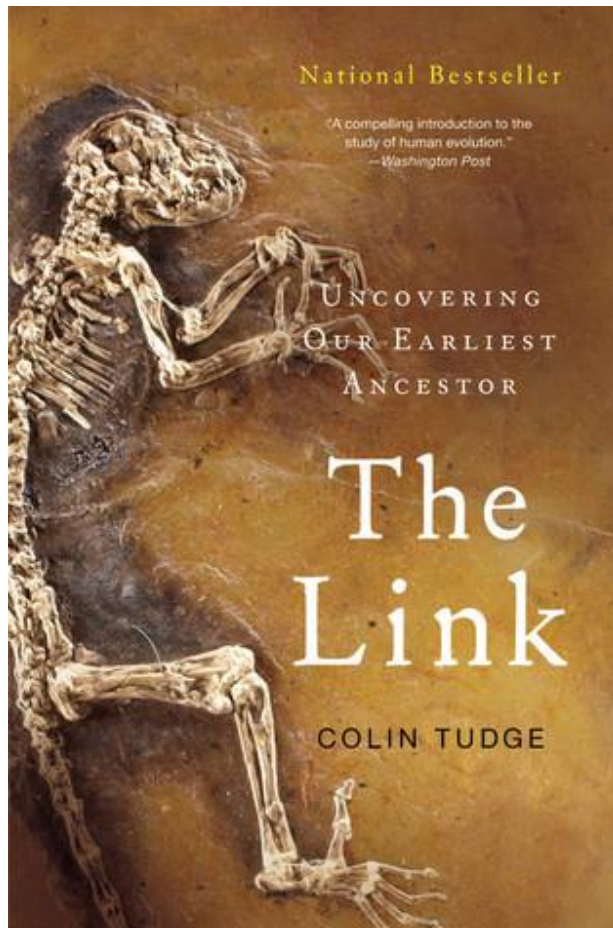
# The Seven Daughters of Eve

*by Bryan Sykes*



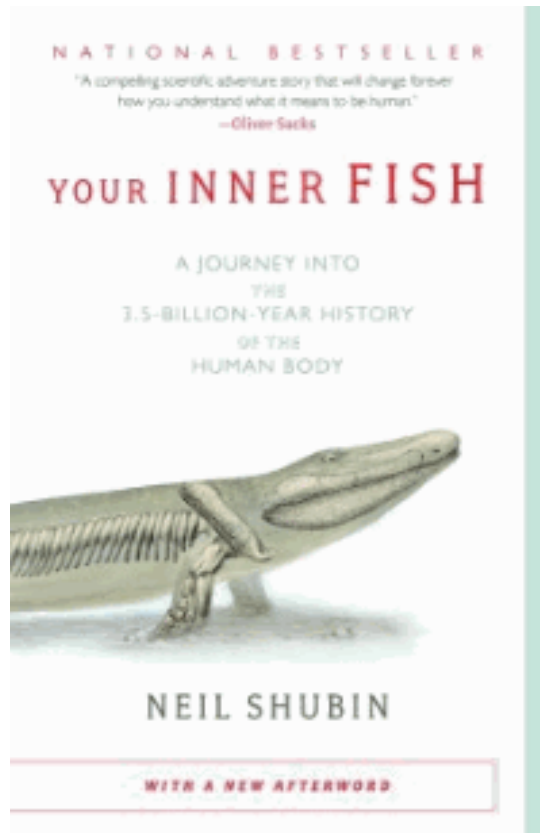
Professor Bryan Sykes gives a firsthand account of his research into a gene which passes undiluted from generation to generation through the maternal line.

# The Link *by Colin Tudge*



Details the discovery of a forty-seven-million-year-old Darwinius fossil known as Ida, and discusses what scientists have learned from studying it.

# Your Inner Fish *by Neil Shubin*

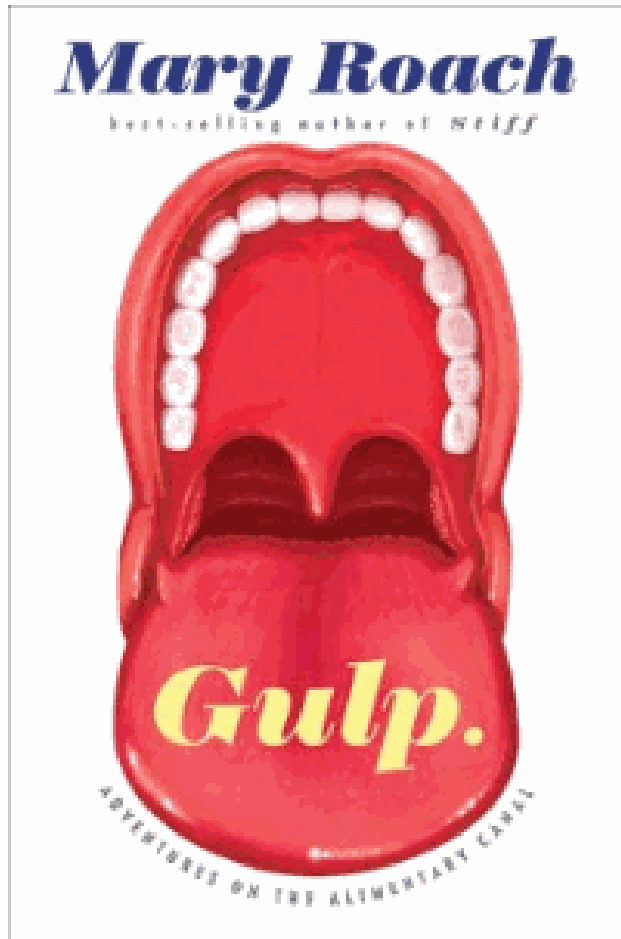


The author, a paleontologist and professor of anatomy, follows the path of evolution by linking the organs of the human body with the physical attributes of non-human ancestors.



# Gulp

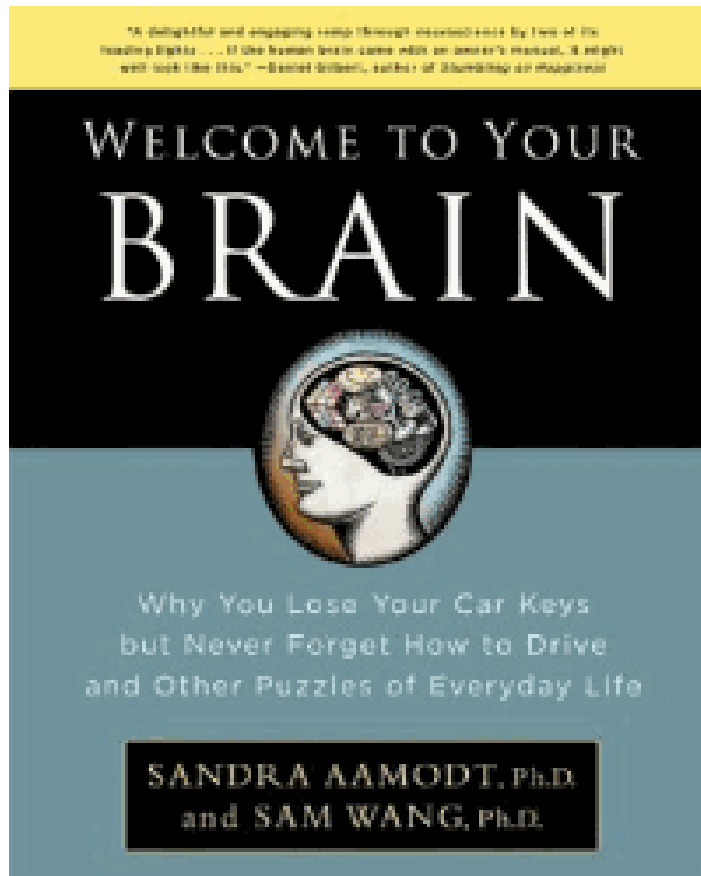
by Mary Roach



Examines the alimentary canal and the digestive system, answering such questions as, can constipation kill a person, why the stomach doesn't digest itself, how much can be eaten before the stomach bursts, and more.

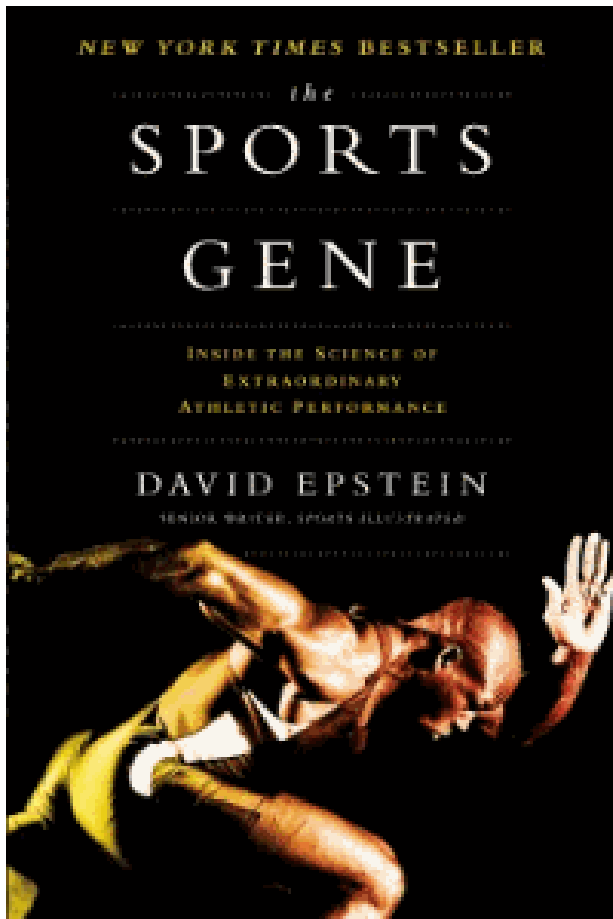
# Welcome to Your Brain

*by Sandra Aamodt*



Presents a comprehensive overview on how the brain really works that offers tips on such things as how to cope with jet lag, when to worry about a stroke, and how to keep the brain healthy in old age.

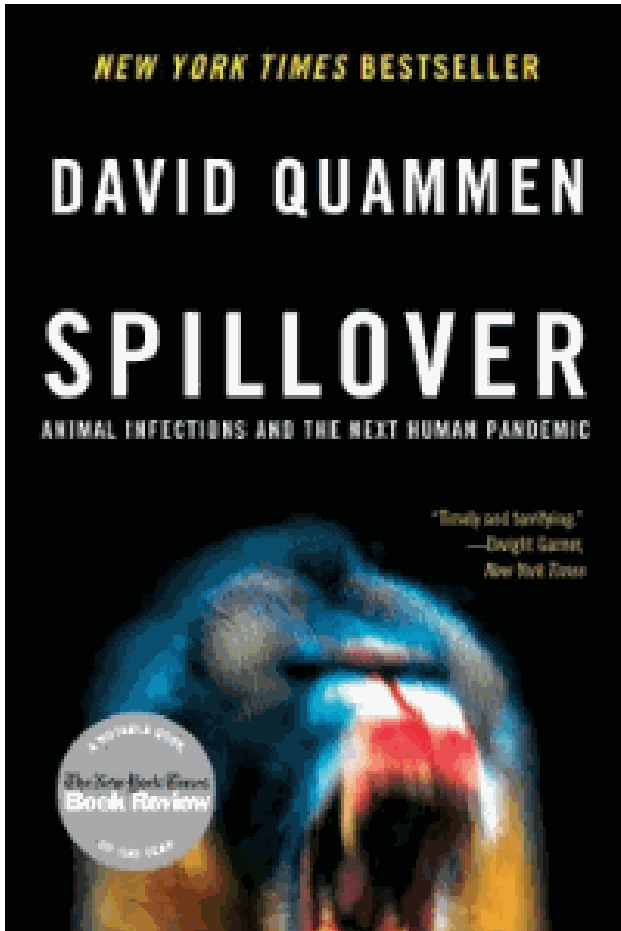
# The Sports Gene *by David Epstein*



The argument of whether some athletes are born with their skills is discussed and analyzed.

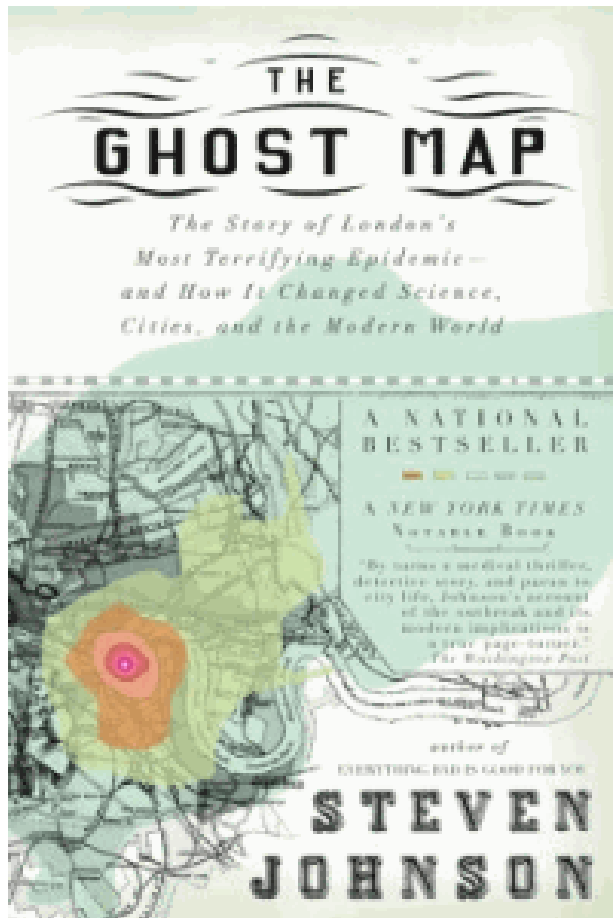
# Spillover

*by David Quammen*



Discusses the animal origins of emerging human diseases, looking at recent outbreaks of Ebola, Marburg, AIDS, SARS, avian influenza, and Lyme disease; and considers whether or not these events are linked and how future epidemics can be stopped.

# The Ghost Map *by Steven Johnson*



Chronicles the outbreak and spread of Cholera in London during the summer of 1854 and the efforts of Reverend Henry Whitehead and Dr. John Snow who isolated the disease and put an end to the epidemic.

# Your Brain on Food

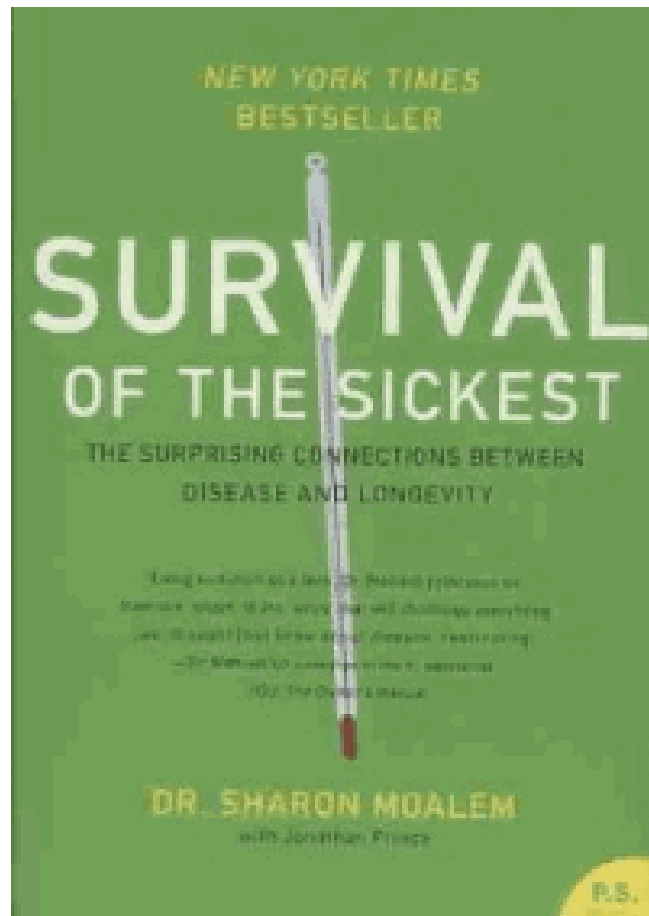
*by Gary L. Wenk*



Examines how various foods and drugs have direct consequences on how people think, feel, and act as a result of their effect on certain neurotransmitters in the brain.

# Survival of the Sickest

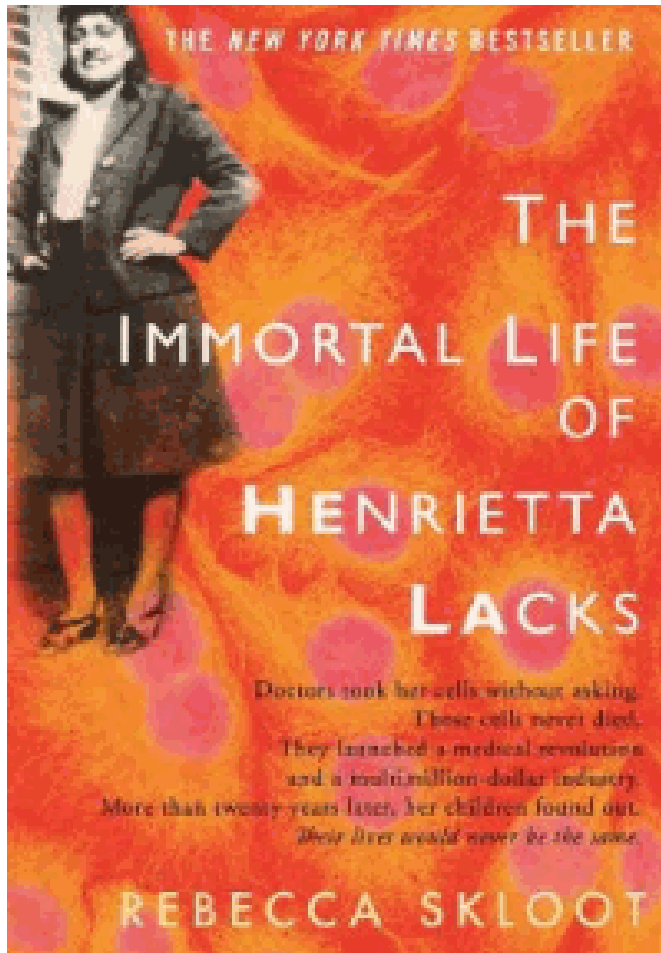
*by Dr. Sharon Moalem*



Explores evolutionary history for answers to why certain diseases exist, discussing the effects of environmental factors such as climate, food, and drink on the genes of human ancestors thousands and hundreds of years ago, and examines connections between genetic inheritance and who gets which diseases.

# The Immortal Life of Henrietta Lacks

*by Rebecca Skloot*

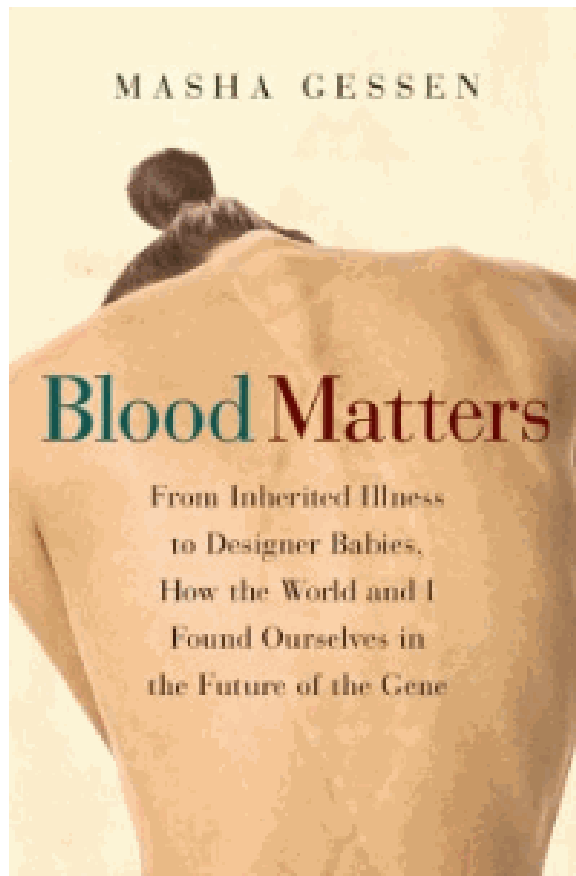


Examines the experiences of the children and husband of Henrietta Lacks, who, twenty years after her death from cervical cancer in 1951, learned doctors and researchers took cells from her cervix without consent which were used to create the immortal cell line known as the HeLa cell; provides an overview of Henrietta's life; and explores issues of experimentation on African-Americans and bioethics.



# Blood Matters

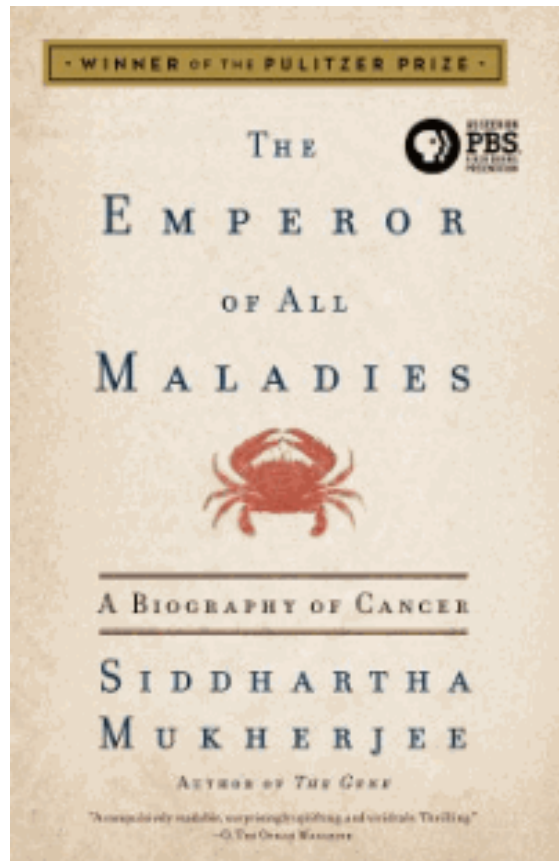
*by Masha Gessen*



Explores how recent advances in genetic mapping, which are allowing doctors to identify patients who are at increased risk for life-threatening illnesses, are shaping the decisions people make about their lives.

# The Emperor of All Maladies

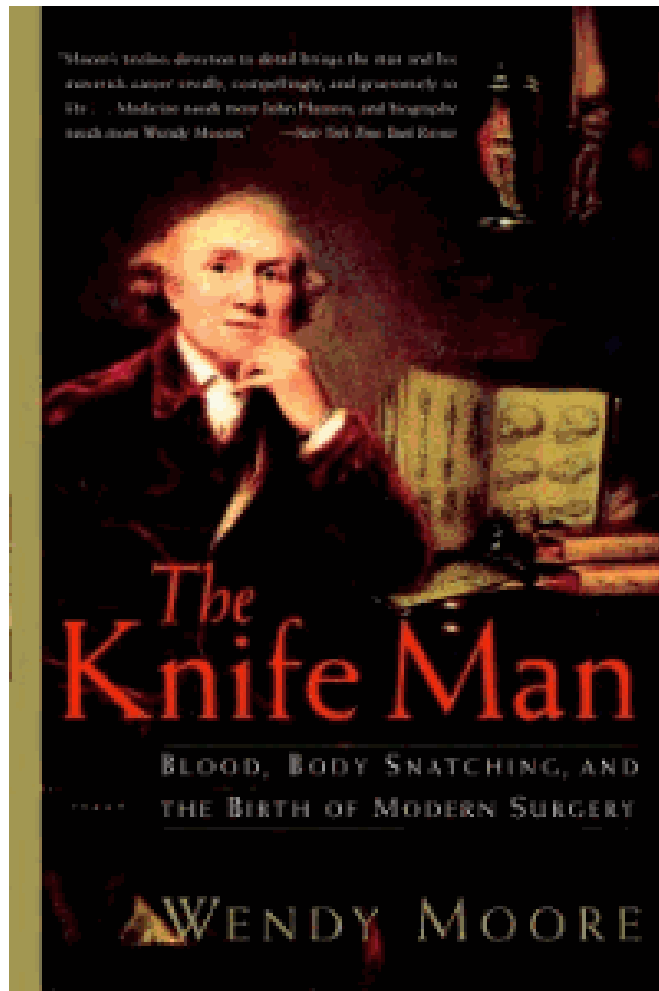
*by Siddhartha Mukherjee*



A discussion of the history of the fight to cure, control, and defeat cancer, covering its origins, relevant scientific research, and other related topics.

# The Knife Man

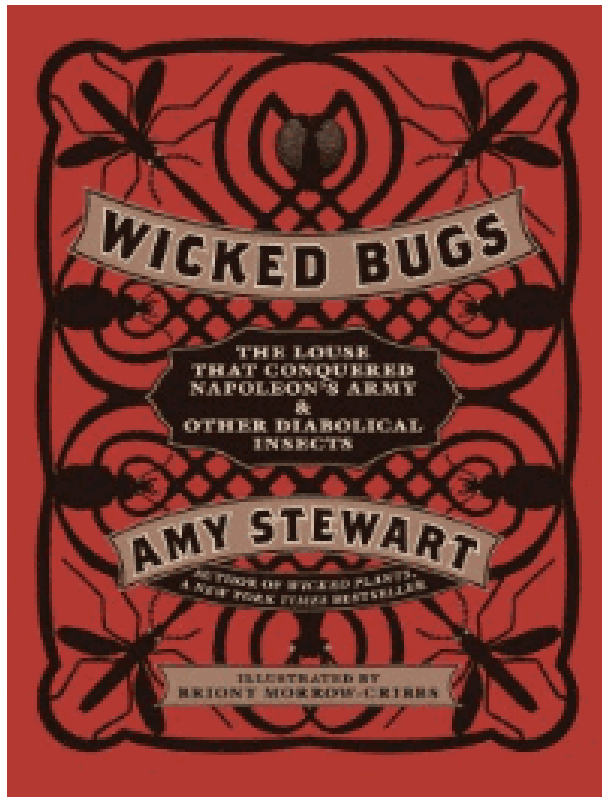
*by Wendy Moore*



Chronicles the life of John Hunter, the most famous anatomist and surgeon of the eighteenth century, focusing on the contributions he made to the fields of science and medicine.

# Wicked Bugs

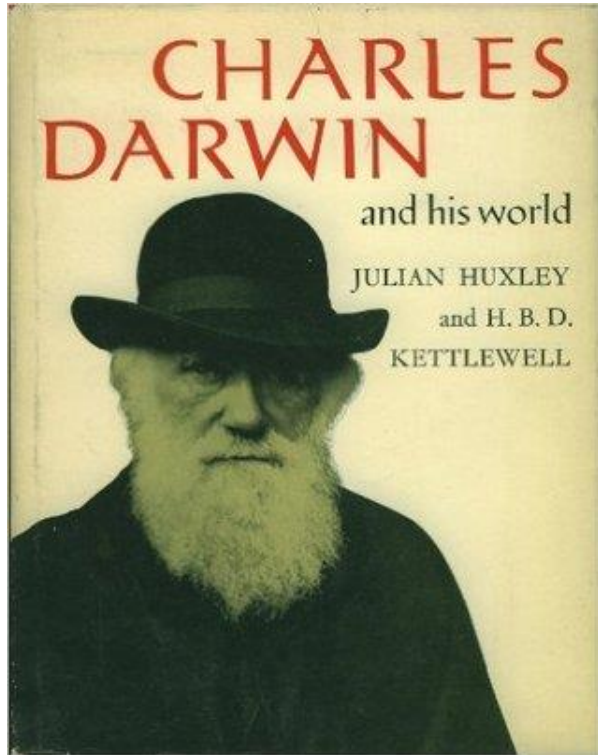
*by Amy Stewart*



Contains alphabetically arranged entries that provide information and stories of one hundred insects that infest, infect, and make trouble for humans, and includes etchings and drawings of the six- and eight-legged pests.

# Charles Darwin and His World

*by Julian Huxley and H.B.D. Kettlewell*



Non-fiction account of Charles Darwin with plenty of black and white pictures.