# Biology & Neuroscience

University of California Press Columbia University Press Princeton University Press

**Complete Catalogue** 

Autumn 2020



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### Catalogue Contents

	Page
New Titles	1
Evolution	3
Neuroscience	5
Best of Backlist	7
Backlist	g
Index	24
How to order	30



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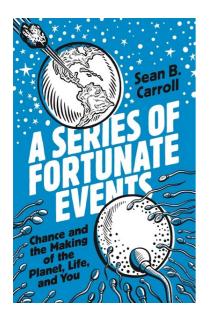
### **Princeton University Press**

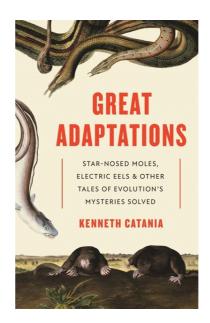
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### **A Series of Fortunate Events**

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

### Sean B. Carroll

"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.

9780691201757 \$22.95 | £18.99 Hardback 224 pages | 133.35mm : 203.2mm October 2020

Science / Life Sciences
Princeton University Press

### **Great Adaptations**

Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved

### **Kenneth Catania**

How one scientist unlocked the secrets behind some of nature's most astounding animals

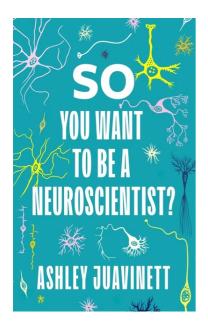
From star-nosed moles that have super-sensing snouts to electric eels that paralyze their prey, animals possess unique and extraordinary abilities. In *Great Adaptations*, Kenneth Catania presents an entertaining and engaging look at some of nature's most remarkable creatures. Telling the story of his biological detective work, Catania sheds light on the mysteries behind the behaviors of tentacled snakes, tiny shrews, zombie-making wasps, and more. He shows not only how studying these animals can provide deep insights into how life evolved, but also how scientific discovery can be filled with adventure and fun.

Beginning with the star-nosed mole, Catania reveals what the creature's nasal star is actually for, and what this tells us about how brains work. He explores how the deceptive hunting strategy of tentacled snakes leads prey straight to their mouths, how eels use electricity to control other animals, and why emerald jewel wasps make zombies out of cockroaches. He also solves the enigma of worm grunting—a traditional technique in which earthworms are enticed out of the ground—by teaming up with professional worm grunters. Catania demonstrates the merits of approaching science with an open mind, considers the role played by citizen scientists, and illustrates that most animals have incredible, hidden abilities that defy our imagination.

Examining some strange and spectacular creatures, *Great Adaptations* offers a wondrous journey into nature's grand designs.

9780691195254 \$27.95 | £22.00 Hardback 216 pages | 155.57mm : 234.95mm September 2020

Science / Natural History Princeton University Press



# So You Want to Be a Neuroscientist?

An Honest Account of Life as a Scientist

### **Ashley Juavinett**

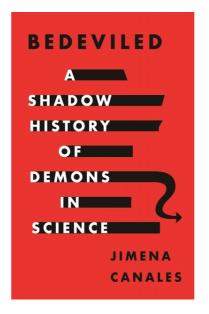
The pursuit to understand the human brain in all its intricacy is a fascinatingly complex challenge and neuroscience is one of the fastest-growing scientific fields worldwide. There is a wide range of career options open to those who wish to pursue a career in neuroscience, yet there are few resources that provide students with inside advice on how to go about it.

So You Want to Be a Neuroscientist? is a contemporary and engaging guide for aspiring neuroscientists of diverse backgrounds and interests. Fresh with the experience of having recently launched her own career, Ashley Juavinett provides a candid look at the field, offering practical guidance that explores everything from programming to personal stories.

Juavinett begins with a look at the field and its history, exploring our evolving understanding of how the brain works. She then tackles the nitty-gritty: how to apply to a PhD program, the daily life of a graduate student, the art of finding mentors and collaborators, and what to expect when working in a lab. Finally, she introduces readers to diverse young scientists whose career paths illustrate what you can do with a neuroscience degree. For anyone intrigued by the brain or seeking advice on how to further their ambitions of studying it, *So You Want to Be a Neuroscientist?* is a practical and timely overview of how to learn and thrive in this exciting field.

9780231190893 \$19.95 | £14.99 Paperback 312 pages | 139.7mm : 215.9mm December 2020

SCIENCE / Life Sciences Columbia University Press



### **Bedeviled**

A Shadow History of Demons in Science

### Jimena Canales

How scientists through the ages have conducted thought experiments using imaginary entities—demons—to test the laws of nature and push the frontiers of what is possible

Science may be known for banishing the demons of superstition from the modern world. Yet just as the demon-haunted world was being exorcized by the enlightening power of reason, a new kind of demon mischievously materialized in the scientific imagination itself. Scientists began to employ hypothetical beings to perform certain roles in thought experiments—experiments that can only be done in the imagination—and these impish assistants helped scientists achieve major breakthroughs that pushed forward the frontiers of science and technology.

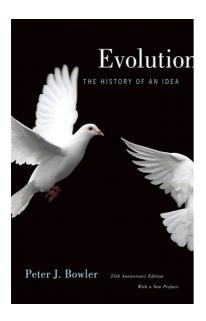
Spanning four centuries of discovery—from René Descartes, whose demon could hijack sensorial reality, to James Clerk Maxwell, whose molecular-sized demon deftly broke the second law of thermodynamics, to Darwin, Einstein, Feynman, and beyond—Jimena Canales tells a shadow history of science and the demons that bedevil it. She reveals how the greatest scientific thinkers used demons to explore problems, test the limits of what is possible, and better understand nature. Their imaginary familiars helped unlock the secrets of entropy, heredity, relativity, quantum mechanics, and other scientific wonders—and continue to inspire breakthroughs in the realms of computer science, artificial intelligence, and economics today.

The world may no longer be haunted as it once was, but the demons of the scientific imagination are alive and well, continuing to play a vital role in scientists' efforts to explore the unknown and make the impossible real.

9780691175324 \$29.95 | £25.00 Hardback 400 pages | 150mm : 234mm

November 2020

Science / History **Princeton University Press** 

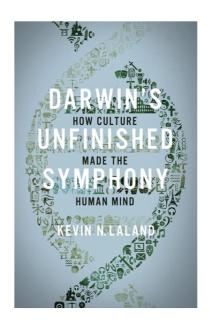




The History of an Idea, 25th Anniversary Edition, With a New Preface

### Peter J. Bowler

Since its original publication in 1989, *Evolution: The History of an Idea* has been recognized as a comprehensive and authoritative source on the development and impact of this most controversial of scientific theories. This twentieth anniversary edition is updated with a new preface examining recent scholarship and trends within the study of evolution.



# Darwin's Unfinished Symphony

How Culture Made the Human Mind

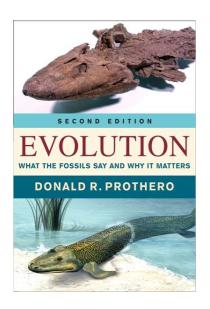
### Kevin N. Laland

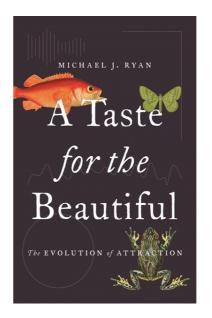
Humans possess an extraordinary capacity for culture, from the arts and language to science and technology. But how did the human mind—and the uniquely human ability to devise and transmit culture—evolve from its roots in animal behavior? <code>Darwin's Unfinished Symphony</code> presents a captivating new theory of human cognitive evolution. This compelling and accessible book reveals how culture is not just the magnificent end product of an evolutionary process that produced a species unlike all others—it is also the key driving force behind that process. Kevin Laland tells the story of the painstaking fieldwork, the key experiments, the false leads, and the stunning scientific breakthroughs that led to this new understanding of how culture transformed human evolution. It is the story of how Darwin's intellectual descendants picked up where he left off and took up the challenge of providing a scientific account of the evolution of the human mind.

9780520261280 \$34.95 | £29.00 Paperback 496 pages | 6in : 9in

Science / Life Sciences University of California Press 9780691182810 \$22.95 | £18.99 Paperback 464 pages | 155.45mm : 234.95mm 2018

Science / Life Sciences Princeton University Press





### **Evolution**

What the Fossils Say and Why It Matters

### Donald R. Prothero, Carl Buell

Donald R. Prothero's *Evolution* is an entertaining and rigorous history of the transitional forms and series found in the fossil record. Its engaging narrative of scientific discovery and well-grounded analysis has led to the book's widespread adoption in courses that teach the nature and value of fossil evidence for evolution. *Evolution* tackles systematics and cladistics, rock dating, neo-Darwinism, and macroevolution. It includes extensive coverage of the primordial soup, invertebrate transitions, the development of the backbone, the reign of the dinosaurs, and the transformation from early hominid to modern human. The book also details the many alleged "missing links" in the fossil record, including some of the most recent discoveries that flesh out the fossil timeline and the evolutionary process.

In this second edition, Prothero describes new transitional fossils from various periods, vividly depicting such bizarre creatures as the *Odontochelys*, or the "turtle on the half shell"; fossil snakes with legs; and the "Frogamander," a new example of amphibian transition. Prothero's discussion of intelligent design arguments includes more historical examples and careful examination of the "experiments" and observations that are exploited by creationists seeking to undermine sound science education. With new perspectives, Prothero reframes creationism as a case study in denialism and pseudoscience rather than a field with its own intellectual dynamism. The first edition was hailed as an exemplary exploration of the fossil evidence for evolution, and this second edition will be welcome in the libraries of scholars, teachers, and general readers who stand up for sound science in this post-truth era.

### A Taste for the Beautiful

The Evolution of Attraction

### Michael J. Ryan

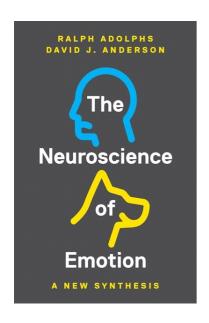
From one of the world's leading authorities on animal behavior, the astonishing story of how the brain drives the evolution of beauty in animals and humans

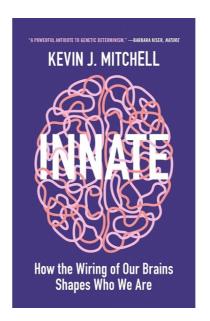
In A Taste for the Beautiful, Michael Ryan, one of the world's leading authorities on animal behavior, tells the remarkable story of how he and other scientists have taken up where Darwin left off, transforming our understanding of sexual selection and shedding new light on animal and human behavior. Drawing on cutting-edge science, Ryan explores key questions: Why do animals perceive certain traits as beautiful and others not? Do animals have an inherent sexual aesthetic and, if so, where is it rooted? Ryan argues that the answers lie in the brain—particularly of females, who act as biological puppeteers, spurring the development of beautiful traits in males. Vividly written and filled with fascinating stories, A Taste for the Beautiful will change how you think about beauty and attraction in the animal world and beyond.

9780231180641 \$35.00 | £30.00 Hardback 456 pages | 177.8mm : 254mm 2017

Science / Life Sciences Columbia University Press 9780691191393 \$16.95 | £13.99 Paperback 224 pages | 155.57mm : 234.95mm 2019

Science / Life Sciences Princeton University Press





## The Neuroscience of Emotion

A New Synthesis

### Ralph Adolphs, David J. Anderson

# A new framework for the neuroscientific study of emotions in humans and animals

The Neuroscience of Emotion presents a new framework for the neuroscientific study of emotion across species. Written by Ralph Adolphs and David J. Anderson, two leading authorities on the study of emotion, this accessible and original book recasts the discipline and demonstrates that in order to understand emotion, we need to examine its biological roots in humans and animals. Only through a comparative approach that encompasses work at the molecular, cellular, systems, and cognitive levels will we be able to comprehend what emotions do, how they evolved, how the brain shapes their development, and even how we might engineer them into robots in the future.

Showing that emotions are ubiquitous across species and implemented in specific brain circuits, Adolphs and Anderson offer a broad foundation for thinking about emotions as evolved, functionally defined biological states. The authors discuss the techniques and findings from modern neuroscientific investigations of emotion and conclude with a survey of theories and future research directions.

Featuring color illustrations throughout, *The Neuroscience of Emotion* synthesizes the latest in neuroscientific work to provide deeper insights into how emotions function in all of us

### **Innate**

How the Wiring of Our Brains Shapes Who We Are

### Kevin J. Mitchell

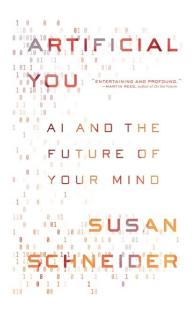
A leading neuroscientist explains why your personal traits are more innate than you think

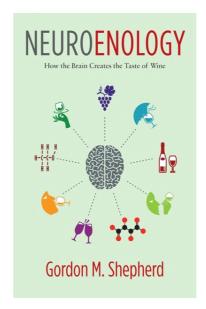
What makes you the way you are—and what makes each of us different from everyone else? In *Innate*, leading neuroscientist and popular science blogger Kevin Mitchell traces human diversity and individual differences to their deepest level: in the wiring of our brains. Deftly guiding us through important new research, including his own groundbreaking work, he explains how variations in the way our brains develop before birth strongly influence our psychology and behavior throughout our lives, shaping our personality, intelligence, sexuality, and even the way we perceive the world. Compelling and original, *Innate* will change the way you think about why and how we are who we are.

9780691174082 \$45.00 | £38.00 Hardback 376 pages | 180mm : 240mm

SCIENCE / Life Sciences Princeton University Press 9780691204154 \$18.95 | £15.99 Paperback 312 pages | 133.35mm : 203.2mm 2020

SCIENCE / Life Sciences
Princeton University Press





### **Artificial You**

AI and the Future of Your Mind

### Susan Schneider

Hailed by the Washington Post as "a sure-footed and witty guide to slippery ethical terrain," a philosophical exploration of AI and the future of the mind that Astronomer Royal Martin Rees calls "profound and entertaining"

Humans may not be Earth's most intelligent beings for much longer: the world champions of chess, Go, and *Jeopardy!* are now all AIs. Given the rapid pace of progress in AI, many predict that it could advance to human-level intelligence within the next several decades. From there, it could quickly outpace human intelligence. What do these developments mean for the future of the mind?

In *Artificial You*, Susan Schneider says that it is inevitable that AI will take intelligence in new directions, but urges that it is up to us to carve out a sensible path forward. As AI technology turns inward, reshaping the brain, as well as outward, potentially creating machine minds, it is crucial to beware. Homo sapiens, as mind designers, will be playing with "tools" they do not understand how to use: the self, the mind, and consciousness. Schneider argues that an insufficient grasp of the nature of these entities could undermine the use of AI and brain enhancement technology, bringing about the demise or suffering of conscious beings. To flourish, we must grasp the philosophical issues lying beneath the algorithms.

At the heart of her exploration is a sober-minded discussion of what AI can truly achieve: Can robots really be conscious? Can we merge with AI, as tech leaders like Elon Musk and Ray Kurzweil suggest? Is the mind just a program? Examining these thorny issues, Schneider proposes ways we can test for machine consciousness, questions whether consciousness is an unavoidable byproduct of sophisticated intelligence, and considers the overall dangers of creating machine minds.

9780691180144 \$24.95 | £22.00 Hardback 192 pages | 139.7mm : 215.9mm

SCIENCE / Life Sciences
Princeton University Press

### **Neuroenology**

How the Brain Creates the Taste of Wine

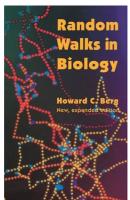
### Gordon M. Shepherd

In his new book, Gordon M. Shepherd expands on the startling discovery that the brain creates the taste of wine. This approach to understanding wine's sensory experience draws on findings in neuroscience, biomechanics, human physiology, and traditional enology. Shepherd shows, just as he did in *Neurogastronomy: How the Brain Creates Flavor and Why It Matters*, that creating the taste of wine engages more of the brain than does any other human behavior. He clearly illustrates the scientific underpinnings of this process, along the way enhancing our enjoyment of wine.

Neuroenology is the first book on wine tasting by a neuroscientist. It begins with the movements of wine through the mouth and then consults recent research to explain the function of retronasal smell and its extraordinary power in creating wine taste. Shepherd comprehensively explains how the specific sensory pathways in the cerebral cortex create the memory of wine and how language is used to identify and imprint wine characteristics. Intended for a broad audience of readers—from amateur wine drinkers to sommeliers, from casual foodies to seasoned chefs—Neuroenology shows how the emotion of pleasure is the final judge of the wine experience. It includes practical tips for a scientifically informed wine tasting and closes with a delightful account of Shepherd's experience tasting classic Bordeaux vintages with French winemaker Jean-Claude Berrouet of the Chateau Petrus and Dominus Estate.

9780231177009 \$24.95 | £22.00 Hardback 224 pages | 152.4mm : 228.6mm

SCIENCE / Life Sciences Columbia University Press

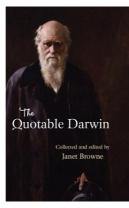


### Random Walks in **Biology**

New and Expanded Edition

Howard C. Berg

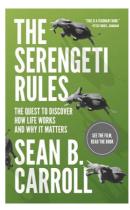
9780691000640 \$46.95 | £40.00 Paperback | 1993 Science Princeton **University Press** 



### The Quotable **Darwin**

E. Janet Browne

9780691169354 \$24.95 | £22.00 Hardback | 2017 Reference **Princeton University Press** 



### The Serengeti Rules

The Quest to Discover How Life Works and Why It Matters - With a new Q&A with the

Sean B. Carroll

9780691175683 \$16.95 | £13.99 Paperback | 2017 Science Princeton

**University Press** 

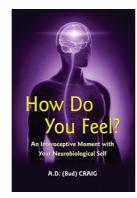


### **Nano Comes** to Life

How Nanotechnology Is Transforming Medicine and the Future of Biology

#### Sonia Contera

9780691168807 \$24.95 | £22.00 Hardback | 2019 Science **Princeton University Press** 

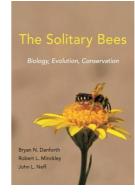


### **How Do You** Feel?

An Interoceptive Moment with Your Neurobiological Self

### A. D. Craig

9780691156767 \$42.00 | £35.00 Hardback | 2015 SCIENCE **Princeton University Press** 

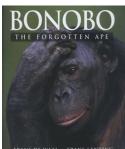


### The Solitary **Bees**

Biology, Evolution, Conservation

Brvan N. Danforth, Robert L. Minckley, John L. Neff, Frances **Fawcett** 

9780691168982 \$45.00 | £38.00 Hardback | 2019 Science Princeton **University Press** 

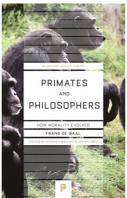


### **Bonobo**

The Forgotten Ape

Frans B. M. de Waal, Frans Lanting

9780520216518 \$41.95 | £35.00 Paperback | 1998 Science University of California Press

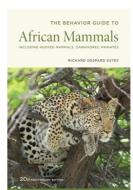


### Primates and **Philosophers**

How Morality Evolved

Frans de Waal, Stephen Macedo, Josiah Ober

9780691169163 \$17.95 | £14.99 Paperback | 2016 Science Princeton Science Library Princeton **University Press** 

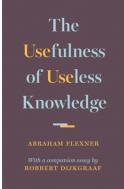


### The Behavior Guide to **African Mammals**

Including Hoofed Mammals, Carnivores, Primates, 20th Anniversary Edition

Richard D. Estes, Edward O. Wilson, **Daniel Otte** 

9780520272972 \$44.95 | £37.00 Paperback | 2012 Science University of California Press



### Usefulness of **Useless Knowledge**

Abraham Flexner. Robbert Dijkgraaf

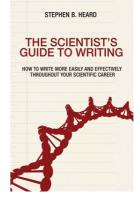
9780691174761 \$9.95 | £8.99 Hardback | 2017 Science Princeton **University Press** 



### Philosophy of **Biology**

Peter Godfrey-Smith

9780691174679 \$19.95 | £16.99 Paperback | 2016 Philosophy Princeton Foundations of Contemporary Philosophy Princeton **University Press** 

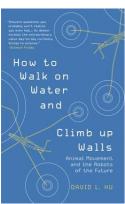


### The Scientist's Guide to Writing

How to Write More Easily and Effectively throughout Your Scientific Career

### Stephen B. Heard

9780691170220 \$21.95 | £18.99 Paperback | 2016 Science **Princeton University Press** 

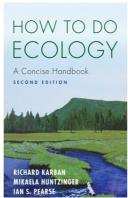


### How to Walk on Water and Climb up Walls

Animal Movement and the Robots of the Future

#### David Hu

9780691204161 \$14.95 | £12.99 Paperback | 2020 Science **Princeton University Press** 

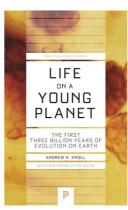


### How to Do Ecology

A Concise Handbook -Second Edition

Richard Karban, Mikaela Huntzinger, Ian S. Pearse

9780691161761 \$25.95 | £22.00 Paperback | 2014 Science **Princeton University Press** 



### Life on a Young Planet

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

#### Andrew H. Knoll

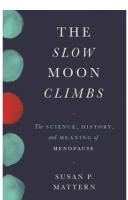
9780691165530 \$19.95 | £16.99 Paperback | 2015 Science Princeton Science Library **Princeton University Press** 



### The Princeton Guide to Evolution

Jonathan B. Losos, David A. Baum, Douglas J. Futuyma, Hopi E. Hoekstra, Richard E. Lenski

9780691175874 \$55.00 | £46.00 Paperback | 2017 Science **Princeton University Press** 



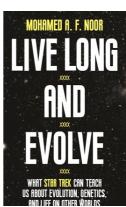
### The Slow Moon Climbs

The Science, History, and Meaning of Menopause

### Susan Mattern

9780691171630 \$29.95 | £25.00 Hardback | 2019 Science

Science Princeton University Press

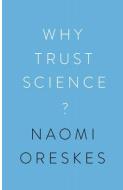


### Live Long and Evolve

What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other Worlds

### Mohamed A. F.

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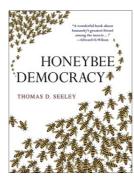


# Why Trust Science?

M. Susan Lindee, Martin Kowarsch, Naomi Oreskes, Stephen Macedo, Ottmar Edenhofer, Jon Krosnick, Marc Lange

9780691179001 \$24.95 | £22.00 Hardback | 2019 Science The University Center for Human Values Series

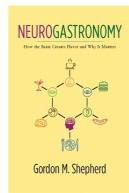
Princeton University Press



### Honeybee Democracy

### Thomas D. Seeley

9780691147215 \$29.95 | £25.00 Hardback | 2010 Science **Princeton** University Press

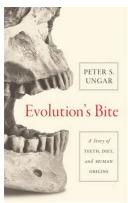


### Neurogastrono

How the Brain Creates Flavor and Why It Matters

### Gordon M. Shepherd

9780231159111 \$18.95 | £14.99 Paperback | 2013 SCIENCE Columbia University Press



### Evolution's Bite

A Story of Teeth, Diet, and Human Origins

### Peter S. Ungar

9780691182834 \$19.95 | £16.99 Paperback | 2018 Science **Princeton** 

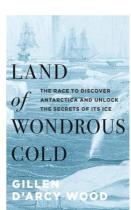
Princeton University Press



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### Katrina van Grouw

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# Index

40 Years of Evolution: Darwin's Finches on Daphne Major	Annotated Catalog of the Type Material of Aphytis
Island; Peter R. Grant	(Hymenoptera: Aphelinidae) in the Entomology Research
Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids; Daniel Loxton	Museum, University of California at Riverside, An; Serguei Triapitsyn
Abrahamson, Warren G.; Evolutionary Ecology across Three Trophic Levels: Goldenrods, Gallmakers, and Natural Enemies	Ant Encounters: Interaction Networks and Colony Behavior; Deborah M. Gordon
(MPB-29)9	Ants of Africa and Madagascar: A Guide to the Genera;
Adaptation and Natural Selection: A Critique of Some Current Evolutionary Thought; George Christopher Williams	Brian L. Fisher.       13         Ants of Fiji, The; Eli M. Sarnat.       20
	Ants of North America: A Guide to the Genera; Brian L.
Adaptive Diversification (MPB-48); Michael Doebeli 12	Fisher
Adaptive Geometry of Trees (MPB-3), Volume 3; Henry S. Horn	Apollonio, Spencer; Hierarchical Perspectives on Marine Complexities: Searching for Systems in the Gulf of Maine 9
Adélie Penguin, The: Bellwether of Climate Change; David Ainley	Aquatic Photosynthesis: Second Edition; Paul G. Falkowski
Adkins–regan, Elizabeth; Hormones and Animal Social Behavior	Archibald, J. David; Aristotle's Ladder, Darwin's Tree: The Evolution of Visual Metaphors for Biological Order9
Adolphs, Ralph; The Neuroscience of Emotion: A New Synthesis	Archibald, J. David; Origins of Darwin's Evolution: Solving the Species Puzzle Through Time and Place9, 9
Advances in Historical Ecology9	Arctic Shorebirds in North America: A Decade of
Adventures among Ants: A Global Safari with a Cast of Trillions; Mark W. Moffett	Monitoring
African Wild Dog, The: Behavior, Ecology, and Conservation; Scott Creel	Metaphors for Biological Order; J. David Archibald
Agent-Based and Individual-Based Modeling: A Practical Introduction, Second Edition; Steven F. Railsback 19, 19	Artificial You: Al and the Future of Your Mind; Susan Schneider 6
Agent-Based and Individual-Based Modeling: A Practical Introduction; Steven F. Railsback	Atlas of Pacific Salmon: The First Map-Based Status Assessment of Salmon in the North Pacific; Xanthippe
Agosta, William; Thieves, Deceivers, and Killers: Tales of Chemistry in Nature	Augerot. 9 Augerot, Xanthippe; Atlas of Pacific Salmon: The First Map-
Ainley, David; The Adélie Penguin: Bellwether of Climate Change	Based Status Assessment of Salmon in the North Pacific 9  Avian Migrant, The: The Biology of Bird Migration; John H.
Air and Water: The Biology and Physics of Life's Media;	Rappole19
Mark Denny	Avise, John; Evolutionary Perspectives on Pregnancy 9  Avise, John; Hermaphroditism: A Primer on the Biology, Ecology, and Evolution of Dual Sexuality 9
Alexander, R. McNeill; Principles of Animal Locomotion 9	Axelrod, Daniel I.; A Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California 9
Alfred Russel Wallace: A Life; Peter Raby	Axelrod, Daniel I.; The Eocene Thunder Mountain Flora of
Valérie Chansigaud	Central Idaho
All Creatures: Naturalists, Collectors, and Biodiversity, 1850-1950; Robert E. Kohler	Aren't Your Best Source of Health Information; Paul A. Offit
Allen, Timothy; Toward a Unified Ecology	Balée, William; Time and Complexity in Historical Ecology: Studies in the Neotropical Lowlands
	Studies in the Neotropical Lowlands
Alzheimer: The Life of a Physician and the Career of a Disease; Konrad Maurer	Evolving World
American Arctic Lichens: The Macrolichens; John W.	Barnard, Edward; New York City Trees: A Field Guide for the Metropolitan Area
Thomson	Barrett, Louise; Human Evolutionary Psychology 9
American Dison: A Natural History, Dale F. Lott	Barriers and Bridges to the Renewal of Regional Ecosystems
Among African Apes: Stories and Photos from the Field	Bascompte, Jordi; Mutualistic Networks 9
	Baumberg, Jeremy J.; The Secret Life of Science: How It Really Works and Why It Matters 9
Amphibian Declines: The Conservation Status of United States Species	<b>Bayesian Models: A Statistical Primer for Ecologists</b> ; N. Thompson Hobbs
Amphibians and Reptiles of La Selva, Costa Rica, and the Caribbean Slope: A Comprehensive Guide; Craig Guyer	Beaches and Parks from Monterey to Ventura: Counties Included: Monterey, San Luis Obispo, Santa Barbara, Ventura; California Coastal Commis
Andersen, Ken H.; Fish Ecology, Evolution, and Exploitation: A	Beasts of Eden: Walking Whales, Dawn Horses, and Other
New Theoretical Synthesis	Enigmas of Mammal Evolution; David Rains Wallace 22
Animal Attractions: Nature on Display in American Zoos;	Bedeviled: A Shadow History of Demons in Science; Jimena Canales
Elizabeth Hanson	Begun, David R.; The Real Planet of the Apes: A New Story of Human Origins

Behavior Guide to African Mammals, The: Including Hoofed Mammals, Carnivores, Primates, 20th Anniversary Edition; Richard D. Estes	Brief History of Herpetology in the Museum of Vertebrate Zoology, University of California, Berkeley, with a List of Type Specimens of Recent Amphibians and Reptiles;
Beidleman, Linda H.; Plants of the San Francisco Bay Region: Mendocino to Monterey	Javier A. Rodriguez-Robles
Bentley, Barbara; The Biology of Nectaries	and Globalization of the Brazilian Amazon
Expanded Edition	Secrets of Life in a Tiny Hermaphrodite
Times of Marine Mammals	(Lepidoptera Tortricidae: Euliini)
Gillian Barker9 Bialek, William; Biophysics: Searching for Principles10	Genera (Lepidoptera: Tortricidae: Euliini)
Bianchi, Thomas S.; Chemical Biomarkers in Aquatic Ecosystems	Browne, Janet; Charles Darwin: Voyaging
Biodemography: An Introduction to Concepts and Methods; James R. Carey	Whitney Cranshaw
Biodiversity Dynamics: Turnover of Populations, Taxa, and Communities	Burger, Joanna; The Black Skimmer: Social Dynamics of a Colonial Species
Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey; Philip J. Pauly 19	Burger, Joanna; The Common Tern: Its Breeding Biology and Social Behavior
Biologist's Guide to Mathematical Modeling in Ecology and Evolution, A; Sarah P. Otto19	Burley, Nancy; Mate Choice in Plants (MPB-19), Volume 19: Tactics, Mechanisms, and Consequences. (MPB-19) 10
Biology of Chameleons, The	Cacioppo, Stephanie; Introduction to Social Neuroscience
Biology of the Naked Mole-Rat, The 20, 21	Cacti: Biology and Uses
Biomass Spectrum, The: A Predator-Prey Theory of Aquatic Production; S. R. Kerr	Cadotte, Marc W.; Phylogenies in Ecology: A Guide to Concepts and Methods
Biomechanics of Insect Flight, The: Form, Function, Evolution; Robert Dudley12	Caldecott, Julian; World Atlas of Great Apes and their Conservation
Biomolecular Feedback Systems; Domitilla Del Vecchio	California Coastal Commis; Beaches and Parks from Monterey to Ventura: Counties Included: Monterey, San Luis Obispo, Santa Barbara, Ventura
Biophysics: Searching for Principles; William Bialek 10 Biotechnology Law: A Primer for Scientists; Alan J. Morrison	California Cuckoo Wasps in the Family Chrysididae (Hymenoptera); Lynn S. Kimsey
Bird, Richard; Chaos and Life: Complexity and Order in	California Insects; Jerry A. Powell
Evolution and Thought	California Serpentines: Flora, Vegetation, Geology, Soils, and Management Problems; Arthur R. Kruckeberg 16
Black Skimmer, The: Social Dynamics of a Colonial Species; Joanna Burger	California's Fading Wildflowers: Lost Legacy and Biological Invasions; Richard A. Minnich
Bonduriansky, Russell; Extended Heredity: A New Understanding of Inheritance and Evolution	Camazine, Scott; Self-Organization in Biological Systems
Bones: Structure and Mechanics; John D. Currey 12	Canales, Jimena; Bedeviled: A Shadow History of Demons in Science
Bonner, John Tyler; First Signals: The Evolution of Multicellular Development	Canham, Charles D.; Models in Ecosystem Science 11
Bonner, John Tyler; Randomness in Evolution	Cannabis: Evolution and Ethnobotany; Robert Clarke 11 Carboniferous Giants and Mass Extinction: The Late
Natural Selection	Paleozoic Ice Age World; George R. McGhee Jr17, 17 Carey, James R.; Biodemography: An Introduction to Concepts
Bonner, John Tyler; The Social Amoebae: The Biology of Cellular Slime Molds10	and Methods
Bonner, John Tyler; Why Size Matters: From Bacteria to Blue Whales	Life Span
Bonobo: The Forgotten Ape; Frans B. M. de Waal 7 Boreal Birds of North America: A Hemispheric View of	Making of the Planet, Life, and You1  Carroll, Sean B.; The Serengeti Rules: The Quest to Discover
Their Conservation Links and Significance	How Life Works and Why It Matters
Bowler, Peter J.; Evolution: The History of an Idea, 25th	How Life Works and Why It Matters - With a new Q&A with the author
Anniversary Edition, With a New Preface	Case Studies in Plant Taxonomy: Exercises in Applied Pattern Recognition; Tod F. Stuessy
Transformed Our Species	Caste and Ecology in the Social Insects. (MPB-12), Volume 12; George F. Oster
	Catania, Kenneth; Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved

Caterino, Michael S.; The Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus: (Coleoptera: Histeridae)	Communities and Ecosystems: Linking the Aboveground and Belowground Components (MPB-34); David A. Wardle
	Comparative Biomechanics: Life's Physical World - Second Edition; Steven Vogel
Genetic Drift in Italy (MPB-39)	Competition and the Structure of Bird Communities. (MPB-7), Volume 7; Martin L. Cody
(MPB-16), Volume 16: A Quantitative Approach. (MPB-16)	Complex Population Dynamics: A Theoretical/Empirical Synthesis (MPB-35); Peter Turchin
Cavalli-Sforza, Luigi Luca; The History and Geography of Human Genes: Abridged paperback Edition	Computing Skills for Biologists: A Toolbox; Stefano Allesina
Cells to Civilizations: The Principles of Change That Shape Life; Enrico Coen	Consanguinity, Inbreeding, and Genetic Drift in Italy (MPB-39); Luigi Luca Cavalli-Sforza
Cerrados of Brazil, The: Ecology and Natural History of a Neotropical Savanna	Consciousness and Mental Life; Daniel N. Robinson 20 Consumer-Resource Dynamics (MPB-36); William W.
Chaisson, Eric; Epic of Evolution: Seven Ages of the Cosmos .	Murdoch
Chance in Biology: Using Probability to Explore Nature;	Contera, Sonia; Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology7
Mark Denny	Corballis, Michael C.; From Hand to Mouth: The Origins of Language
11	Cornejo, Fernando; Seeds of Amazonian Plants
Chansigaud, Valérie; All about Birds: A Short Illustrated History	Counter-Creationism Handbook, The; Mark Isaak 15
of Ornithology	Craig, A. D.; How Do You Feel?: An Interoceptive Moment with Your Neurobiological Self
Thought; Richard J. Bird	Craine, Joseph M.; Resource Strategies of Wild Plants 12
Charles Darwin: The Power of Place; Janet Browne	Cranshaw, Whitney; Bugs Rule!: An Introduction to the World of Insects
Charles-Dominique, Pierre; Ecology and Behavior of Nocturnal Primates	Creatures of Cain: The Hunt for Human Nature in Cold War America; Erika Lorraine Milam
Charnov, Eric L.; The Theory of Sex Allocation. (MPB-18), Volume 18	Creel, Scott; The African Wild Dog: Behavior, Ecology, and Conservation
Checklist of Host-Parasite Interactions of the Order Crocodylia, A; Marisa Tellez	Critical Transitions in Nature and Society; Marten Scheffer20
Chemical Biomarkers in Aquatic Ecosystems; Thomas S. Bianchi	Croft, Darren P.; Exploring Animal Social Networks
Cherry, Joe; Molecular Biology of Plants: A Text Edition 11 Chiappe, Luis M; Mesozoic Birds: Above the Heads of	Cronin, Thomas W.; Visual Ecology
Dinosaurs	Crum, Howard; Mosses of Eastern North America: In Two
Chimpanzees of Kibale Forest, The: A Field Study of Ecology and Social Structure; Michael Patrick Ghiglieri 14 Christiansen, Freddy Bugge; Theories of Population Variation	Volumes
in Genes and Genomes	Sforza11
Cicero, Carla; Sibling Species of Titmice in the Parus inornatus Complex (Aves: Paridae)	Currey, John D.; Bones: Structure and Mechanics
Clarke, Robert; Cannabis: Evolution and Ethnobotany	Conservation
Malcolm C. McKenna	Relation to Sex
Cody, Martin L.; Competition and the Structure of Bird Communities. (MPB-7), Volume 7	Improve Agriculture; R. Ford Denison
Coen, Enrico; Cells to Civilizations: The Principles of Change That Shape Life	and Individuality; Richard E. Michod
Cohen, Joel E.; Food Webs and Niche Space. (MPB-11), Volume 11	Evolution, and Conservation of Crops
Colinvaux, Paul A.; Why Big Fierce Animals Are Rare: An Ecologist's Perspective11	World; Michael R. Rose
Collective Animal Behavior; David J. T. Sumpter	Human Mind; Kevin N. Laland
Collins, Christopher; Paleopoetics: The Evolution of the Preliterate Imagination	Darwin's Universe: Evolution from A to Z; Richard Milner
Columbia Guide to American Environmental History, The;	de Roos, André M.; Population and Community Ecology of
Carolyn Merchant	Ontogenetic Development
Management	de Waal, Frans; Primates and Philosophers: How Morality Evolved
	Del Vecchio, Domitilla; Biomolecular Feedback Systems 12
Common Tern, The: Its Breeding Biology and Social Behavior; Joanna Burger	Denison, R. Ford; Darwinian Agriculture: How Understanding Evolution Can Improve Agriculture

Denny, Mark; Air and Water: The Biology and Physics of Life's Media	Dynamic Models in Biology; Stephen P. Ellner
Denny, Mark; Chance in Biology: Using Probability to Explore Nature	Volume 13, The; Michael Patrick Hassell
Denny, Mark; Ecological Mechanics: Principles of Life's Physical Interactions	Manual
DeSalle, Rob; Troublesome Science: The Misuse of Genetics	Secrets in Medieval and Early Modern Culture
and Genomics in Understanding Race	Early Life History of Marine Fishes; Bruce Miller
Describing Species: Practical Taxonomic Procedure for	Female Choice
Biologists; Judith E. Winston	Eco-evolutionary Dynamics; Andrew P. Hendry 15, 15
Laurent de Jussieu, Nature, and the Natural System; Peter F. Stevens	Ecological Detective, The: Confronting Models with Data (MPB-28); Ray Hilborn
Developmental Neuroscience: A Concise Introduction; Susan E. Fahrbach	Ecological Diversity and Its Measurement; Anne E. Magurran
Di Berardino, Marie; Genomic Potential of Differentiated Cells .	Ecological Forecasting; Michael C. Dietze
Diamond, Judy Koo, Bird of Paradov; The Evolution and	Interactions; Mark Denny
Diamond, Judy; Kea, Bird of Paradox: The Evolution and Behavior of a New Zealand Parrot	Ecological Niches and Geographic Distributions (MPB-49); A. Townsend Peterson
Wielgorskaya23	Ecological Scale: Theory and Application
Diekmann, Odo; Mathematical Tools for Understanding Infectious Disease Dynamics	Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere; Robert W. Sterner
Dietz, Robert E., IV; Systematics and Biology of the Genus Macrocneme Hübner (Lepidoptera: Ctenuchidae)	Ecology and Behavior of Nocturnal Primates; Pierre Charles-Dominique
Dietze, Michael; Ecological Forecasting	Ecology and Evolution of Inducible Defenses, The 21
Different Kind of Animal, A: How Culture Transformed Our Species; Robert Boyd	Ecology of Climate Change: The Importance of Biotic Interactions; Eric Post
Different Nature, A: The Paradoxical World of Zoos and	Ecology of North American Freshwater Fishes; Stephen T. Ross
Their Uncertain Future; David Hancocks	Ecology, Conservation, and Management of Grouse 20
DNA: A Graphic Guide to the Molecule that Shook the World; Israel Rosenfield20, 20	Ecology, the Ascendent Perspective; Robert E. Ulanowicz
Do Animals Think?; Clive D. L. Wynne	
Dobson, Andrew; Unsolved Problems in Ecology 12, 12 Dobzhansky, T; Genetics and the Origin of Species 12	Ecosystem Approach, The: Complexity, Uncertainty, and Managing for Sustainability; David Waltner-Toews 22, 22
Dobzhansky, Theodosius; Dobzhansky's Genetics of Natural Populations I-XLIII	Eigen, Manfred; Laws of the Game: How the Principles of Nature Govern Chance
Dobzhansky, Theodosius; Genetics of the Evolutionary Process	Elbroch, Lawrence Mark; Field Guide to Animal Tracks and Scat of California
Dobzhansky's Genetics of Natural Populations I-XLIII;	Eldredge, N; Systematics, Ecology, and the Biodiversity Crisis
Theodosius Dobzhansky	
Dogs: Their Fossil Relatives and Evolutionary History;	of Species from the Nineteenth Century Through Punctuated Equilibria and Beyond
Xiaoming Wang	Eldredge, Niles; Life in the Balance: Humanity and the Biodiversity Crisis
Douglas, Angela E.; Fundamentals of Microbiome Science: How Microbes Shape Animal Biology	Eldredge, Niles; The Miner's Canary: Unraveling the Mysteries of Extinction
Douglas, Angela E.; The Symbiotic Habit	Ellner, Stephen P.; Dynamic Models in Biology
Dowling, John E.; The Great Brain Debate: Nature or Nurture?	Emmeche, Claus; The Garden in the Machine: The Emerging Science of Artificial Life
Dragonflies and Damselflies of California; Timothy D. Manolis	Emmons, Louise H.; Tupai: A Field Study of Bornean Treeshrews
Drunken Monkey, The: Why We Drink and Abuse Alcohol; Robert Dudley	Encyclopedia of Tidepools and Rocky Shores
Dubos, René; Reason Awake: Science for Man	Endler, John A.; Geographic Variation, Speciation and Clines. (MPB-10), Volume 10
Dudley, Robert; The Biomechanics of Insect Flight: Form, Function, Evolution	Endler, John A.; Natural Selection in the Wild. (MPB-21), Volume 21
Dudley, Robert; The Drunken Monkey: Why We Drink and Abuse Alcohol	Enhancing Evolution: The Ethical Case for Making Better People; John Harris
Dye, Christopher; The Population Biology of Tuberculosis	Ennos, Roland; Solid Biomechanics
	Enquist, Magnus; Neural Networks and Animal Behavior 13 Environment, Power, and Society for the Twenty-First
The Enigmatic Smile	Century: The Hierarchy of Energy; Howard T. Odum
17	

Eocene Thunder Mountain Flora of Central Idaho, The; Daniel I. Axelrod	Experimental Evolution: Concepts, Methods, and Applications of Selection Experiments
Epic of Evolution: Seven Ages of the Cosmos; Eric J.	Exploring Animal Social Networks; Darren P. Croft 12
Chaisson	Extended Heredity: A New Understanding of Inheritance
Development and Evolution	and Evolution; Russell Bonduriansky
Epperson, Bryan K.; Geographical Genetics (MPB-38) 13	Extreme Life of the Sea, The; Stephen R. Palumbi 19, 19
Essays on Life Itself; Robert Rosen	Fahrbach, Susan E.; Developmental Neuroscience: A Concise
Estes, James A.; Serendipity: An Ecologist's Quest to	Introduction
Understand Nature	Fairbairn, Daphne J.; Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom
Including Hoofed Mammals, Carnivores, Primates, 20th	Falkowski, Paul G.; Aquatic Photosynthesis: Second Edition
Anniversary Edition	
Estes, Richard D.; The Gnu's World: Serengeti Wildebeest Ecology and Life History	Falkowski, Paul G.; Life's Engines: How Microbes Made Earth Habitable
Eternal Ephemera: Adaptation and the Origin of Species	Fear, Wonder, and Science in the New Age of Reproductive
from the Nineteenth Century Through Punctuated Equilibria and Beyond; Niles Eldredge	Biotechnology; Scott Gilbert
Evolution and Escalation: An Ecological History of Life;	Female Control: Sexual Selection by Cryptic Female Choice; William Eberhard
Geerat J. Vermeij	Field Guide to Amphibians and Reptiles of the San Diego
Evolution and the Emergent Self: The Rise of Complexity and Behavioral Versatility in Nature; Raymond L. Neubauer	Region; Jeffrey M Lemm
18	Field Guide to Animal Tracks and Scat of California; Lawrence Mark Elbroch
Evolution in Changing Environments: Some Theoretical Explorations. (MPB-2); Richard Levins	Field Guide to Birds of the Northern California Coast; Rich Stallcup
Evolution of Animal Communication, The: Reliability and	Field Guide to Butterflies of the San Francisco Bay and
Deception in Signaling Systems; William A. Searcy 20 Evolution of Complexity by Means of Natural Selection,	Sacramento Valley Regions; Arthur Shapiro 20
The; John Tyler Bonner	Field Guide to Owls of California and the West; Hans J. Peeters
Evolution of Culture in Animals, The; John Tyler Bonner	Fincham, J. R. S.; Fungal Genetics
10	Fire in California's Ecosystems
Evolution of Parental Care, The; T. H. Clutton-Brock	First Signals: The Evolution of Multicellular Development:
Evolution of Phylogenetic Systematics, The	John Tyler Bonner
Scott	Theoretical Synthesis; Ken H. Andersen 9, 9
Evolution: The History of an Idea, 25th Anniversary	Fish: An Enthusiast's Guide; Peter B. Moyle
Edition, With a New Preface; Peter J. Bowler	Genera
Evolution: What the Fossils Say and Why It Matters; Donald R. Prothero	Fisher, Brian L.; Ants of North America: A Guide to the Genera
Evolutionary Biogeography: An Integrative Approach with Case Studies; Juan J Morrone	Fisher, Harwood; Self, Logic, and Figurative Thinking 13
Evolutionary Biology of Flies, The	Fishes: A Guide to Their Diversity; Philip A. Hastings 15
Evolutionary Biology of Parasites. (MPB-15), Volume 15;	Fitch, Walter; The Three Failures of Creationism: Logic, Rhetoric, and Science
Peter W. Priče	Fitness Landscapes and the Origin of Species (MPB-41); Sergey Gavrilets
Mark A. McPeek	Fleissner, Erwin; Vital Harmonies: Molecular Biology and Our
Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the	Shared Humanity
North American Red Crossbill (Loxia curvirostra) Complex;	Flexner, Abraham; The Usefulness of Useless Knowledge 7
Jeffrey G. Groth	Floodplains: Processes and Management for Ecosystem Services; Jeffrey J. Opperman
bottae, with Emphasis on California Populations, The;	Florida Scrub Jay (MPB-20), Volume 20, The: Demography
James L. Patton	of a Cooperative-Breeding Bird. (MPB-20); Glen Everett
Evolutionary Ecology across Three Trophic Levels: Goldenrods, Gallmakers, and Natural Enemies (MPB-29);	Woolfenden.         23           Food Webs (MPB-50); Kevin S. McCann.         17
Warren G. Abrahamson	Food Webs and Niche Space. (MPB-11), Volume 11; Joel E.
Evolutionary Ecology of Parasites: Second Edition; Robert	Cohen
Poulin	Foraging Strategy of Howler Monkeys, The: A Study in Primate Economics; Katharine Milton18
9	Foraging Theory; David W. Stephens
Evolutionary Trends in Flowering Plants; Armen Takhtajan .	Forbes, Scott; A Natural History of Families
	Forest Microclimatology; Richard Lee
; Peter S. Ungar	Forms of Becoming: The Evolutionary Biology of Development; Alessandro Minelli
Evolution's Rainbow: Diversity, Gender, and Sexuality in	Forsman, Eric; Population Demography of Northern Spotted
Nature and People; Joan Roughgarden 20	Owls

Fossil Mammals of Asia: Neogene Biostratigraphy and Chronology	Getz, Wayne M.; Population Harvesting (MPB-27), Volume 27: Demographic Models of Fish, Forest, and Animal Resources. (MPB-27)
Foundation Papers in Landscape Ecology	Ghiglieri, Michael Patrick; The Chimpanzees of Kibale Forest: A Field Study of Ecology and Social Structure
the Book of Job; H.H. Shugart	Giant Pandas: Biology and Conservation
Francis, Richard C.; Why Men Won't Ask for Directions: The Seductions of Sociobiology	Gilbert, Scott; Fear, Wonder, and Science in the New Age of Reproductive Biotechnology
Frank, Steven A.; Foundations of Social Evolution	Gilpin, Michael E.; Group Selection in Predator-Prey Communities. (MPB-9), Volume 9
Distribution and Abundance; David L Strayer	Giraldeau, Luc-Alain; Social Foraging Theory14
Fretwell, Stephen D.; Populations in a Seasonal Environment. (MPB-5)	Giribet, Gonzalo; The Invertebrate Tree of Life
From Clocks to Chaos: The Rhythms of Life; Leon Glass	
	Gleason, Henry; The Natural Geography of Plants
From Genesis to Genetics: The Case of Evolution and Creationism; John A. Moore	Glimpses of Creatures in Their Physical Worlds; Steven Vogel
From Hand to Mouth: The Origins of Language; Michael C. Corballis	Gnu's World, The: Serengeti Wildebeest Ecology and Life History; Richard D. Estes
From Populations to Ecosystems: Theoretical Foundations for a New Ecological Synthesis (MPB-46);	Godfray, H. Charles J.; Parasitoids: Behavioral and Evolutionary Ecology
Michel Loreau	Godfrey-Smith, Peter; Philosophy of Biology
Functional Consequences of Biodiversity, The: Empirical Progress and Theoretical Extensions (MPB-33)	Goodwin, Brian; How the Leopard Changed Its Spots: The Evolution of Complexity
Fundamentals of Microbiome Science: How Microbes Shape Animal Biology; Angela E. Douglas	Gordon, Deborah M.; Ant Encounters: Interaction Networks and Colony Behavior
Fungal Genetics; J. R. S. Fincham	Gosline, John M.; Mechanical Design of Structural Materials in
Fungus-Insect Relationships: Perspectives in Ecology and Evolution	Animals1- Gould, James L.; Nature's Compass: The Mystery of Animal
Garden in the Machine, The: The Emerging Science of Artificial Life; Claus Emmeche	Navigation
Gates, Michael W.; Species Revision and Generic Systematics of World Rileyinae (Hymenoptera: Eurytomidae)	How the Brain Works
Gavrilets, Sergey, Fitness Landscapes and the Origin of	Daphne Major Island
Species (MPB-41)	Grant, Peter R.; How and Why Species Multiply: The Radiation of Darwin's Finches
Applications; Charlotte K. Omoto	Grant, Verne; Genetics of Flowering Plants
Applications; Charlotte Omoto	Grant, Verne; The Origins of Adaptations
Genetic and Cultural Odyssey, A: The Life and Work of L. Luca Cavalli-Sforza; Linda Stone	Great Adaptations: Star-Nosed Moles, Electric Eels, and Other Tales of Evolution's Mysteries Solved; Kenneth Catania.
Genetic Justice: DNA Data Banks, Criminal Investigations, and Civil Liberties; Sheldon Krimsky 16, 16	Great Brain Debate, The: Nature or Nurture?; John E. Dowling
Genetic Structure and Selection in Subdivided Populations (MPB-40); François Rousset	Greater Sage-Grouse: Ecology and Conservation of a Landscape Species and Its Habitats
Genetics and the Extinction of Species: DNA and the Conservation of Biodiversity	Green Phoenix, The: A History of Genetically Modified Plants; Paul Lurquin
Genetics and the Origin of Species; T Dobzhansky 12	Greene, Harry W.; Tracks and Shadows: Field Biology as Art
Genetics of Flowering Plants; Verne Grant	
Importance of Theodosius Dobzhansky	Greene, Harry W; Snakes: The Evolution of Mystery in Nature
Genetics of the Evolutionary Process; Theodosius Dobzhansky12	Grene, Marjorie; Interactions: The Biological Context of Social Systems
Genial Gene, The: Deconstructing Darwinian Selfishness; Joan Roughgarden	Grimm, Volker; Individual-based Modeling and Ecology 14
Geniez, Philippe; Snakes of Europe, North Africa and the Middle East: A Photographic Guide	Groth, Jeffrey G.; Evolutionary Differentiation in Morphology, Vocalizations, and Allozymes Among Nomadic Sibling Species in the North American Red Crossbill (Loxia curvirostra)
Genomic Potential of Differentiated Cells; Marie A. Di	Complex
Berardino	Group Selection in Predator-Prey Communities. (MPB-9),
Genomic Signal Processing; Ilya Shmulevich	Volume 9; Michael E. Gilpin
Volume 10; John A. Endler	Rica, and the Caribbean Slope: A Comprehensive Guide 14
Species; Robert H. MacArthur	Haldane, John Burdon; The Causes of Evolution
Geographical Genetics (MPB-38); Bryan K. Epperson 13	Hancocks, David; A Different Nature: The Paradoxical World of Zoos and Their Uncertain Future.
	Handbook of Capture-Recapture Analysis.

Handbook of Meta-analysis in Ecology and Evolution	How to Feel: The Science and Meaning of Touch; Sushma Subramanian
Hands; John Napier	How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future; David Hu 8, 15
Hanson, Elizabeth; Animal Attractions: Nature on Display in American Zoos	Hsu, Yu-Feng; Phylogenetic Relationships within Heliodinidae
Harris, John; Enhancing Evolution: The Ethical Case for Making Better People	and Systematics of Moths Formerly Assigned to Heliodines Stainton (Lepidoptera: Yponomeutoidea)
Hassell, Michael Patrick; The Dynamics of Arthopod Predator- Prey Systems. (MPB-13), Volume 1314	Hu, David; How to Walk on Water and Climb up Walls: Animal Movement and the Robots of the Future
Hastings, Philip A.; Fishes: A Guide to Their Diversity 15	Hubbell, Stephen P.; The Unified Neutral Theory of Biodiversity and Biogeography (MPB-32)15
Hawaiian Spinner Dolphin, The; Kenneth S. Norris 18	Human Evolutionary Psychology; Louise Barrett 9
Hayek, Lee-Ann; Surveying Natural Populations: Quantitative Tools for Assessing Biodiversity	Hunter, Mark D.; The Phytochemical Landscape: Linking Trophic Interactions and Nutrient Dynamics
Heads, Michael; Molecular Panbiogeography of the Tropics	Hunting Apes, The: Meat Eating and the Origins of Human Behavior; Craig B. Stanford
Heard, Stephen B.; The Scientist's Guide to Writing: How to	Hypersea: Life on Land; Mark A. S. Mcmenamin
Write More Easily and Effectively throughout Your Scientific	Iguanas: Biology and Conservation
Career	Importance of Species The Perspectives on
Hendry, Andrew P.; Eco-evolutionary Dynamics 15, 15	Expendability and Triage
Hermaphroditism: A Primer on the Biology, Ecology, and Evolution of Dual Sexuality; John C. Avise	In Search of the Causes of Evolution: From Field Observations to Mechanisms
Hidden Dimensions: The Unification of Physics and Consciousness; B. Alan Wallace	In the Beginning Was the Worm: Finding the Secrets of Life in a Tiny Hermaphrodite; Andrew Brown
Hierarchical Concept of Ecosystems. (MPB-23), Volume 23, A; Robert V. O'Neill	Individual-based Modeling and Ecology; Volker Grimm
Hierarchical Perspectives on Marine Complexities: Searching for Systems in the Gulf of Maine; Spencer Apollonio9	Infectious Disease Ecology: Effects of Ecosystems on Disease and of Disease on Ecosystems; Richard S. Ostfeld
Higgins, Richard; Thoreau and the Language of Trees	
Hilborn, Ray; The Ecological Detective: Confronting Models	Inland Fishes of California; Peter B. Moyle
with Data (MPB-28)15 Historical Biogeography of Neotropical Freshwater Fishes	Innate: How the Wiring of Our Brains Shapes Who We Are; Kevin J. Mitchell
9	Insect Hormones; H. Frederik Nijhout
History and Geography of Human Genes, The: Abridged	Insects, The; Url Lanham
paperback Edition; Luigi Luca Cavalli-Sforza	Integrated System of Classification of Flowering Plants, An ; Arthur Cronquist
Ecologists	Interactions: The Biological Context of Social Systems; Marjorie Grene
Hof, John; Spatial Optimization for Managed Ecosystems15, 15	International Advances in the Ecology, Zoogeography, and
Hof, John; Spatial Optimization in Ecological Applications 15	Systematics of Mayflies and Stoneflies
Hoffecker, John; Modern Humans: Their African Origin and Global Dispersal	Brain Works; Daniel Graham
Homology, Genes, and Evolutionary Innovation; Günter P. Wagner22, 22	Interpreting Pre-Quaternary Climate from the Geologic Record; Judith Totman Parrish
Honeybee Democracy; Thomas D. Seeley 8 Hoppitt, William; Social Learning: An Introduction to	Introduction to Horned Lizards of North America; Wade C. Sherbrooke
Mechanisms, Methods, and Models	Introduction to Methods and Models in Ecology, Evolution, and Conservation Biology, An
Hormones and Animal Social Behavior; Elizabeth Adkins– regan	Introduction to Social Neuroscience; Stephanie Cacioppo .
Horn, Henry S.; Adaptive Geometry of Trees (MPB-3), Volume	
3	Isaak, Mark; The Counter-Creationism Handbook
Houde, Anne; Sex, Color, and Mate Choice in Guppies 15	Jacob, François; The Logic of Life: A History of Heredity 15
How and Why Species Multiply: The Radiation of Darwin's Finches; Peter R. Grant	Jepson Desert Manual, The: Vascular Plants of
How Do You Feel?: An Interoceptive Moment with Your	Southeastern California9
Neurobiological Self; A. D. Craig	Jepson Manual, The: Vascular Plants of California 9
How Evolution Shapes Our Lives: Essays on Biology and Society	Johnsen, Sönke; The Optics of Life: A Biologist's Guide to Light in Nature
How Evolution Shapes Our Lives: Essays on Biology and Society; Jonathan B. Losos	Journey of Man, The: A Genetic Odyssey; Spencer Wells
How Men Age: What Evolution Reveals about Male Health and Mortality; Richard G. Bribiescas	Juavinett, Ashley; So You Want to Be a Neuroscientist?: An Honest Account of Life as a Scientist 2, 15
How the Leopard Changed Its Spots: The Evolution of Complexity; Brian Goodwin	Kaplan, Eugene H.; Sensuous Seas: Tales of a Marine
How to Do Ecology: A Concise Handbook - Second Edition	Biologist
; Richard Karban8	Process Energy, Nutrients, and Toxins

Karban, Richard; How to Do Ecology: A Concise Handbook - Second Edition	Life as It Is: Biology for the Public Sphere; William F. Loomis
Karlin, Samuel; Theoretical Studies on Sex Ratio Evolution.	Life in Ancient Ice
(MPB-22), Volume 22	Life in Moving Fluids: The Physical Biology of Flow - Revised and Expanded Second Edition; Steven Vogel 22
New Zealand Parrot; Judy Diamond	Life in the Balance: Humanity and the Biodiversity Crisis; Niles Eldredge
Animals	Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life; Robert Rosen 20, 20
Century Biology	Life on a Young Planet: The First Three Billion Years of
Kerr, S. R.; The Biomass Spectrum: A Predator-Prey Theory of Aquatic Production	Evolution on Earth - Updated Edition; Andrew H. Knoll 8  Life's Devices: The Physical World of Animals and Plants;
Chrysididae (Hymenoptera)	Steven Vogel
Kimura, Motoo; Theoretical Aspects of Population Genetics. (MPB-4), Volume 4	G. Falkowski
Kingdon, Jonathan; Lowly Origin: Where, When, and Why Our Ancestors First Stood Up	Central California to Oregon 11 Live Long and Evolve: What Star Trek Can Teach Us about
Klauber, Laurence M.; Rattlesnakes: Their Habits, Life Histories, and Influence on Mankind, Abridged edition 15	<b>Evolution, Genetics, and Life on Other Worlds</b> ; Mohamed A. F. Noor
Knoll, Andrew H.; Life on a Young Planet: The First Three Billion Years of Evolution on Earth - Updated Edition 8	Living Matter: Seeking New Physics in the Biological World; Alexander Levine
Koenig, Walter D.; Population Ecology of the Cooperatively Breeding Acorn Woodpecker. (MPB-24), Volume 24 16	Lizards in an Evolutionary Tree: Ecology and Adaptive Radiation of Anoles; Jonathan Losos
Kohler, Robert E.; All Creatures: Naturalists, Collectors, and Biodiversity, 1850-1950	Lloyd, Elisabeth A.; The Structure and Confirmation of Evolutionary Theory16
Kricher, John; Tropical Ecology	Logic of Life, The: A History of Heredity; François Jacob
Krimsky, Sheldon; Genetic Justice: DNA Data Banks, Criminal Investigations, and Civil Liberties	
Krimsky, Sheldon; Stem Cell Dialogues: A Philosophical and	Volume 25
Scientific Inquiry Into Medical Frontiers	Longevity: The Biology and Demography of Life Span; James R. Carey
Vegetation, Geology, Soils, and Management Problems 16 Kurtén, Björn; Not from the Apes: A History of Man's Origins	Looking Inside the Brain: The Power of Neuroimaging; Denis Le Bihan
and Evolution	Loomis, William F.; Life as It Is: Biology for the Public Sphere .
Kurtén, Björn; On Evolution and Fossil Mammals	
Labor and the State in Egypt: Workers, Unions, and Economic Restructuring; Marsha P Posusney 19, 19	Loreau, Michel; From Populations to Ecosystems: Theoretical Foundations for a New Ecological Synthesis (MPB-46) 16
Laland, Kevin N.; Darwin's Unfinished Symphony: How Culture Made the Human Mind	Losos, Jonathan B.; How Evolution Shapes Our Lives: Essays on Biology and Society
Land of Wondrous Cold: The Race to Discover Antarctica	Losos, Jonathan B.; The Princeton Guide to Evolution 8
and Unlock the Secrets of Its Ice; Gillen D'Arcy Wood 8 Lanham, Url; The Insects	Losos, Jonathan; Lizards in an Evolutionary Tree: Ecology and
Lannoo, Michael; Malformed Frogs: The Collapse of Aquatic	Adaptive Radiation of Anoles
Ecosystems	Low, Bobbi S.; Why Sex Matters: A Darwinian Look at Human
America: Biostratigraphy and Geochronology 23	Behavior - Revised Edition
Late Devonian Mass Extinction, The: The Frasnian/ Famennian Crisis; George R. McGhee Jr	Stood Up; Jonathan Kingdon
Laws of the Game: How the Principles of Nature Govern Chance; Manfred Eigen	Loxton, Daniel; Abominable Science!: Origins of the Yeti, Nessie, and Other Famous Cryptids
Le Bihan, Denis; Looking Inside the Brain: The Power of	Lurquin, Paul; The Green Phoenix: A History of Genetically Modified Plants
Neuroimaging	MacArthur, Robert H.; Geographical Ecology: Patterns in the Distribution of Species
Legler, John; The Turtles of Mexico: Land and Freshwater Forms	MacArthur, Robert H.; The Theory of Island Biogeography
Leibold, Mathew A.; Metacommunity Ecology, Volume 59 16	
Lemm, Jeffrey M; Field Guide to Amphibians and Reptiles of the San Diego Region	Species Group of Hawaiian Drosophila (Diptera:  Drosophilidae): The <i>Ceratostoma</i> , <i>Freycinetiae</i> ,
Leopold, A. Starker; The California Quail	<i>Semifuscata</i> , and <i>Setiger</i> Subgroups, and Unplaced Species
Levine, Alexander; Living Matter: Seeking New Physics in the Biological World	Magurran, Anne E.; Ecological Diversity and Its Measurement
Levins, Richard; Evolution in Changing Environments: Some Theoretical Explorations. (MPB-2)	Malformed Frogs: The Collapse of Aquatic Ecosystems; Michael Lannoo
Lieberman, Philip; The Theory That Changed Everything: "On	Mammalian Diversification: From Chromosomes to
the Origin of Species" as a Work in Progress 16, 16	Phylogeography

Mangel, Marc; Dynamic Modeling in Behavioral Ecology 17  Manolis, Timothy D.; Dragonflies and Damselflies of California	Minelli, Alessandro; Forms of Becoming: The Evolutionary Biology of Development
Margulis, Lynn; Microcosmos: Four Billion Years of Microbial	Miner's Canary, The: Unraveling the Mysteries of Extinction; Niles Eldredge
Evolution	Minnich, Richard A.; California's Fading Wildflowers: Lost Legacy and Biological Invasions
Apes, People, and Their Genes	Miocene (10-12 Ma) Evergreen Laurel-Oak Forest from Carmel Valley, California, A; Daniel I. Axelrod
Marshall, James A.R.; Social Evolution and Inclusive Fitness Theory: An Introduction	Mitchell, Kevin J.; Innate: How the Wiring of Our Brains Shapes
Mate Choice in Plants (MPB-19), Volume 19: Tactics, Mechanisms, and Consequences. (MPB-19); Nancy Burley .	Who We Are
Mate Choice: The Evolution of Sexual Decision Making	Conceptual, Theoretical, and Empirical Approaches 12 Modeling Infectious Diseases in Humans and Animals;
from Microbes to Humans; Gil G. Rosenthal	Matt J. Keeling
Dynamics; Odo Diekmann	Railsback
Mathematics in Population Biology; Horst R. Thieme 21 Mating Systems and Strategies; Stephen M. Shuster 21	Modern Humans: Their African Origin and Global Dispersa; John F. Hoffecker
Mattern, Susan; The Slow Moon Climbs: The Science, History, and Meaning of Menopause	Moffett, Mark W.; Adventures among Ants: A Global Safari with a Cast of Trillions
Maurer, Konrad; Alzheimer: The Life of a Physician and the Career of a Disease	Molecular Biology of Plants: A Text Edition; Joe H. Cherry
May, Robert M.; Stability and Complexity in Model Ecosystems17	Molecular Evolutionary Genetics; Masatoshi Nei
McCann, Kevin S.; Food Webs (MPB-50)	Molecular Machines: A Materials Science Approach; Giovanni Zocchi
McGhee, George; Carboniferous Giants and Mass Extinction: The Late Paleozoic Ice Age World	Molecular Panbiogeography of the Tropics; Michael Heads
McGhee, George; The Late Devonian Mass Extinction: The Frasnian/Famennian Crisis	Molecular Switch, The: Signaling and Allostery; Rob Phillips
McGhee, George; Theoretical Morphology: The Concept and tts Applications	
McGhee, George; When the Invasion of Land Failed: The Legacy of the Devonian Extinctions	(MPB-43)18 Moore, John A.; From Genesis to Genetics: The Case of
McKenna, Malcolm; Classification of Mammals: Above the Species Level	Evolution and Creationism
McMahon, Thomas A.; Muscles, Reflexes, and Locomotion	the Evolution-Creationism Controversy
Mcmenamin, Mark A. S.; Hypersea: Life on Land	Evolution-Creationism Controversy; Randy Moore 18 Morrison, Alan; Biotechnology Law: A Primer for Scientists
McWilliams, James; American Pests: The Losing War on Insects from Colonial Times to DDT	Morrone, Juan; Evolutionary Biogeography: An Integrative Approach with Case Studies
Mechanical Design in Organisms; Stephen A. Wainwright	Mortal Rituals: What the Story of the Andes Survivors Tells Us About Human Evolution; Matt J. Rossano
	Mosses of Eastern North America: In Two Volumes; Howard A. Crum
Mechanistic Home Range Analysis. (MPB-43); Paul R. Moorcroft	Most Interesting Problem, A: What Darwin's Descent of Man Got Right and Wrong about Human Evolution
Merchant, Carolyn; The Columbia Guide to American Environmental History	Moths of Western North America; Jerry A. Powell
Mesozoic Birds: Above the Heads of Dinosaurs; Luis M Chiappe	Moyle, Peter B.; Inland Fishes of California
Metacommunity Ecology, Volume 59; Mathew A. Leibold	18
	Munson, Carol J.; Postcranial Descriptions of Ilaria and Ngapakaldia (Vombatiformes, Marsupialia) and the Phylogeny of the Vombatiforms Based on Postcranial Morphology 18
Microcosmos: Four Billion Years of Microbial Evolution; _ynn Margulis	Murdoch, William W.; Consumer-Resource Dynamics (MPB-36)
Milam, Erika Lorraine; Creatures of Cain: The Hunt for Human Nature in Cold War America	Muscles, Reflexes, and Locomotion; Thomas A. McMahon
Miller, Bruce; Early Life History of Marine Fishes	Mutualistic Networks; Jordi Bascompte
Milner, Richard; Darwin's Universe: Evolution from A to Z 18 Milton, Katharine; The Foraging Strategy of Howler Monkeys: A Study in Primate Economics	Nano Comes to Life: How Nanotechnology Is Transforming Medicine and the Future of Biology; Sonia Contera
Mind Thief: The Story of Alzheimer's; Han Yu	Natural Conflict Resolution
	Natural Geography of Plants, The; Henry Gleason 14

Natural History of Families, A; Scott Forbes	Optics of Life, The: A Biologist's Guide to Light in Nature; Sönke Johnsen
Natural History Reader in Animal Behavior, The	Optima for Animals: Revised Edition; R. McNeill Alexander
World	Oreskes, Naomi; Why Trust Science?
Endler 13	Orians, Gordon H.; Some Adaptations of Marsh-Nesting
Nature of Nutrition, The: A Unifying Framework from Animal Adaptation to Human Obesity; Stephen J. Simpson .	Blackbirds. (MPB-14), Volume 14.  Origin Then and Now, The: An Interpretive Guide to the
	Origin of Species; David N. Reznick
Nature's Compass: The Mystery of Animal Navigation;	Origins of Darwin's Evolution: Solving the Species Puzzle
James L. Gould	Through Time and Place; J. David Archibald
Nei, Masatoshi; Molecular Evolutionary Genetics	Oster, George F.; Caste and Ecology in the Social Insects. (MPB-12), Volume 12
Wallace	Ostfeld, Richard S.; Infectious Disease Ecology: Effects of
Neubauer, Raymond; Evolution and the Emergent Self: The Rise of Complexity and Behavioral Versatility in Nature 18	Ecosystems on Disease and of Disease on Ecosystems 18 Otto, Sarah P.; A Biologist's Guide to Mathematical Modeling in
Neural Networks and Animal Behavior; Magnus Enquist	Ecology and Evolution
	Owen, Albert K.; Revision of Ufens Girault, 1911 (Hymenoptera: Trichogrammatidae)
Gordon M. Shepherd	Paleopoetics: The Evolution of the Preliterate Imagination;
Neurogastronomy: How the Brain Creates Flavor and Why It Matters; Gordon M. Shepherd8, 20	Christopher Collins
Neuronal Man: The Biology of Mind; Jean-Pierre Changeux	Parasites in Social Insects; Paul Schmid-Hempel 20
11	Parasitoid Population Biology
Neuroscience of Emotion, The: A New Synthesis; Ralph Adolphs	Parasitoids: Behavioral and Evolutionary Ecology; H. Charles J. Godfray
New Ecology, The: Rethinking a Science for the Anthropocene; Oswald J. Schmitz	Parrish, Judith Totman; Interpreting Pre-Quaternary Climate from the Geologic Record
New World Monkeys: The Evolutionary Odyssey; Alfred L	Parrots of the Wild: A Natural History of the World's Most
Rosenberger	Captivating Birds; Catherine A. Toft
Area; Edward S. Barnard	and Ecology
Niche Construction: The Neglected Process in Evolution (MPB-37); F. John Odling-smee	Patton, James L.; The Evolutionary Dynamics of the Pocket Gopher Thomomys bottae, with Emphasis on California
Nijhout, H. Frederik; Insect Hormones	Populations
Noor, Mohamed A. F.; Live Long and Evolve: What Star Trek Can Teach Us about Evolution, Genetics, and Life on Other	Pauly, Philip J.; Biologists and the Promise of American Life: From Meriwether Lewis to Alfred Kinsey
Worlds	Peeters, Hans J.; Field Guide to Owls of California and the
Norris, Kenneth S.; The Hawaiian Spinner Dolphin 18	West
North American Amphibians: Distribution and Diversity	Peterson, A. Townsend; Ecological Niches and Geographic
Not by Design: Retiring Darwin's Watchmaker; John Reiss	Distributions (MPB-49)
	Pheromone Communication in Moths: Evolution, Behavior,
Not from the Apes: A History of Man's Origins and Evolution; Björn Kurtén	and Application
Nutrient Cycling and Limitation: Hawai'i as a Model System; Peter M. Vitousek	
Ocean Biogeochemical Dynamics; Jorge L. Sarmiento 20	Philosophy of Biology; Peter Godfrey-Smith
Odd Couples: Extraordinary Differences between the Sexes in the Animal Kingdom; Daphne J. Fairbairn 13, 13	Phylogenetic Relationships within Heliodinidae and Systematics of Moths Formerly Assigned to Heliodines
Odling–smee, F. John; Niche Construction: The Neglected Process in Evolution (MPB-37)18	Stainton (Lepidoptera: Yponomeutoidea); Yu-Feng Hsu
Odum, Howard; Environment, Power, and Society for the	Phylogenies in Ecology: A Guide to Concepts and Methods; Marc W. Cadotte
Twenty-First Century: The Hierarchy of Energy 18, 18 Offit, Paul; Bad Advice: Or Why Celebrities, Politicians, and	Phylogeny and Evolution of the Mollusca
Activists Aren't Your Best Source of Health Information 18	Phylogeography of California: An Introduction; Kristina A. Schierenbeck
Omoto, Charlotte; Genes and DNA: A Beginner's Guide to Genetics and Its Applications	Physiological Adaptations for Breeding in Birds; Tony D.
On Evolution and Fossil Mammals; Björn Kurtén 16	Williams
On the Prowl: In Search of Big Cat Origins; Mark Hallett	Nutrients, and Toxins; William H. Karasov
O'Neill, Robert V.; A Hierarchical Concept of Ecosystems. (MPB-23), Volume 23	Phytochemical Landscape, The: Linking Trophic Interactions and Nutrient Dynamics; Mark D. Hunter 15
Opperman, Jeffrey J.; Floodplains: Processes and  Management for Ecosystem Services	Plant Diversity of an Andean Cloud Forest: Inventory of the Vascular Flora of Maquipucuna, Ecuador; Grady L.
with age mont for E003y3tem Oct vioc3	Webster22

Plant Migration: The Dynamics of Geographic Patterning	Railsback, Steven F.; Agent-Based and Individual-Based
in Seed Plant Species; Jonathan D. Sauer	Modeling: A Practical Introduction
Communities. (MPB-26), Volume 26; David Tilman 21  Plant Taxonomy: The Systematic Evaluation of	Modeling: A Practical Introduction, Second Edition 19, 19 Railsback, Steven F.; Modeling Populations of Adaptive
Comparative Data; Tod F. Stuessy	Individuals
Plants of the San Francisco Bay Region: Mendocino to Monterey; Linda H. Beidleman	Rainforest Cities: Urbanization, Development, and Globalization of the Brazilian Amazon; John O. Browder
Poinar, George; What Bugged the Dinosaurs?: Insects, Disease, and Death in the Cretaceous	Random Walks in Biology: New and Expanded Edition;
Pollination and Floral Ecology; Pat Willmer 23	Howard C. Berg
Population and Community Ecology of Ontogenetic	Randomness in Evolution; John Tyler Bonner
Development; André M. de Roos	Rappole, John; The Avian Migrant: The Biology of Bird Migration
	Rattlesnakes: Their Habits, Life Histories, and Influence on Mankind, Abridged edition; Laurence M. Klauber 15
Forsman	Real Planet of the Apes, The: A New Story of Human Origins; David R. Begun
Population Ecology of Individuals. (MPB-25), Volume 25; Adam Lomnicki	Reardon, Jenny; Race to the Finish: Identity and Governance
Population Ecology of the Cooperatively Breeding Acorn Woodpecker. (MPB-24), Volume 24; Walter D. Koenig 16	in an Age of Génomics
Population Ecology: First Principles - Second Edition;	Refiguring Life: Metaphors of Twentieth-Century Biology;
John H. Vandermeer	Evelyn Fox Keller
Population Harvesting (MPB-27), Volume 27: Demographic Models of Fish, Forest, and Animal Resources. (MPB-27);	Reiss, John; Not by Design: Retiring Darwin's Watchmaker
Wayne M. Getz	Reproduction and Sexuality in Marine Fishes: Patterns and Processes
Post, Eric; Ecology of Climate Change: The Importance of	Reproduction, Larval Biology, and Recruitment of the Deep-Sea Benthos
Biotic Interactions	Reptiles and Amphibians of the Pacific Islands: A Comprehensive Guide; George R. Zug
	Research Techniques in Animal Ecology: Controversies
Postcranial Descriptions of Ilaria and Ngapakaldia (Vombatiformes, Marsupialia) and the Phylogeny of the	and Consequences
Vombatiforms Based on Postcranial Morphology; Carol J.	Resource Competition and Community Structure. (MPB-17), Volume 17; D Tilman
Munson	Resource Strategies of Wild Plants; Joseph M. Craine 12
Posusney, Marsha P; Labor and the State in Egypt: Workers, Unions, and Economic Restructuring	Return to the Sea: The Life and Evolutionary Times of Marine Mammals; Annalisa Berta
Poulin, Robert; Evolutionary Ecology of Parasites: Second Edition	Revision of the Modified Mouthparts Species Group of Hawaiian Drosophila (Diptera: Drosophilidae): The
Powell, Jerry A.; California Insects	<i>Ceratostoma</i> , <i>Freycinetiae</i> , <i>Semifuscata<!--</td--></i>
Powell, Jerry A.; Moths of Western North America	i>, and <i>Setiger</i> Subgroups, and Unplaced Species; Karl N. Magnacca
Volume 15	Revision of Ufens Girault, 1911 (Hymenoptera:
Prideaux, Gavin; Systematics and Evolution of the Sthenurine	<b>Trichogrammatidae)</b> ; Albert K. Owen
Rangaroos	Guide to the Origin of Species
de Waal	Ritchie, Mark E.; Scale, Heterogeneity, and the Structure and Diversity of Ecological Communities19
Princeton Guide to Evolution, The; Jonathan B. Losos 8	Rival, Laura; Trekking Through History: The Huaorani of Amazonian Ecuador
Principles of Animal Locomotion; R. McNeill Alexander 9	Robinson, Daniel N.; Consciousness and Mental Life 20
Principles of Animal Taxonomy; George Gaylord Simpson	Robustness and Evolvability in Living Systems; Andreas Wagner
Prothero, Donald R.; Evolution: What the Fossils Say and Why It Matters	Rodriguez-Robles, Javier A.; Brief History of Herpetology in the
Quantitative Viral Ecology: Dynamics of Viruses and Their Microbial Hosts; Joshua Weitz	Museum of Vertebrate Zoology, University of California, Berkeley, with a List of Type Specimens of Recent Amphibians
Quintessential Naturalist, The: Honoring the Life and	and Reptiles
Legacy of Oliver P. Pearson	the Modern World
Raby, Peter; Alfred Russel Wallace: A Life	Rosen, Robert; Essays on Life Itself
Race and the Genetic Revolution: Science, Myth, and	Rosen, Robert; Life Itself: A Comprehensive Inquiry Into the Nature, Origin, and Fabrication of Life
Culture	Rosenberger, Alfred L; New World Monkeys: The Evolutionary
Race to the Finish: Identity and Governance in an Age of Genomics; Jenny Reardon19	Odyssey
Race Unmasked: Biology and Race in the Twentieth	Shook the World
Century; Michael Yudell	

Rosenthal, Gil; Mate Choice: The Evolution of Sexual Decision Making from Microbes to Humans20	Series of Fortunate Events, A: Chance and the Making of the Planet, Life, and You; Sean B. Carroll
Ross, Stephen T.; Ecology of North American Freshwater	Sex Allocation; Stuart West
Fishes	Sex and Evolution. (MPB-8), Volume 8; George Christopher Williams
Survivors Tells Us About Human Evolution	Sex, Color, and Mate Choice in Guppies; Anne Houde 15
Rotifers (Rotifera): Freshwater Fauna of Poland 10	Sexual Conflict; Göran Arnqvist
Roughgarden, Joan; Evolution's Rainbow: Diversity, Gender,	Sexual Selection; Malte Andersson
and Sexuality in Nature and People	Sexual Selections: What We Can and Can't Learn about
Darwinian Selfishness	Sex from Animals; Marlene Zuk
Rousset, François; Genetic Structure and Selection in	Shapiro, Arthur; Field Guide to Butterflies of the San Francisco
Subdivided Populations (MPB-40)	Bay and Sacramento Valley Regions 20
Ryan, Michael; A Taste for the Beautiful: The Evolution of Attraction	Sharks, Rays, and Chimaeras of California; David Ebert
Sampling the Green World: Innovative Concepts of	Sharehard Cardon Neuropalanu Hay the Brain Cardon the
Collection, Preservation, and Storage of Plant Diversity	Shepherd, Gordon; Neuroenology: How the Brain Creates the Taste of Wine
Commission Lawrent - Ocean Biograph arrival Dispersion 20	Shepherd, Gordon; Neurogastronomy: How the Brain Creates
Sarmiento, Jorge L.; Ocean Biogeochemical Dynamics 20 Sarnat, Eli M.; The Ants of Fiji	Flavor and Why It Matters
Sauer, Jonathan D.; Plant Migration: The Dynamics of	Sherbrooke, Wade C.; Introduction to Horned Lizards of North America
Geographic Patterning in Seed Plant Species 20	Shmulevich, Ilya; Genomic Signal Processing
Scale, Heterogeneity, and the Structure and Diversity of	Shorebird Ecology, Conservation, and Management; Mark
<b>Ecological Communities</b> ; Mark E. Ritchie	A. Colwell
	Shugart, H.H.; Foundations of the Earth: Global Ecological
Schierenbeck, Kristina A.; Phylogeography of California: An	Change and the Book of Job
Introduction	Sibling Species of Titmice in the Parus inornatus Complex
Schmid-Hempel, Paul; Parasites in Social Insects	(Aves: Paridae); Carla Cicero
Schmitz, Oswald J.; The New Ecology: Rethinking a Science for the Anthropocene	Simmons, Leigh W.; Sperm Competition and Its Evolutionary
Schneider, Susan; Artificial You: Al and the Future of Your Mind	Consequences in the Insects
6	
Science and the Secrets of Nature: Books of Secrets in	Simpson, George Gaylord; Tempo and Mode in Evolution
Medieval and Early Modern Culture; William Eamon 13 Scientist's Guide to Writing The: How to Write More Easily	21
Scientist's Guide to Writing, The: How to Write More Easily and Effectively throughout Your Scientific Career; Stephen	Simpson, Stephen J.; The Nature of Nutrition: A Unifying Framework from Animal Adaptation to Human Obesity 21
B. Heard	Slow Moon Climbs, The: The Science, History, and
Scott, Eugenie C.; Evolution vs. Creationism: An Introduction	Meaning of Menopause; Susan Mattern
Seabirds and Other Marine Vertebrates; Joanna Burger	Smocovitis, Vassiliki Betty; Unifying Biology: The Evolutionary
10	Synthesis and Evolutionary Biology
Seabright, Paul; The War of the Sexes: How Conflict and	Photographic Guide; Philippe Geniez14
Cooperation Have Shaped Men and Women from Prehistory to	Snakes: The Evolution of Mystery in Nature; Harry W
the Present	Greene
Reliability and Deception in Signaling Systems	So You Want to Be a Neuroscientist?: An Honest Account of Life as a Scientist; Ashley Juavinett 2, 15
Secret Life of Science, The: How It Really Works and Why	Social Amoebae, The: The Biology of Cellular Slime Molds:
It Matters; Jeremy J. Baumberg	John Tyler Bonner
Seeley, Thomas D.; Honeybee Democracy8	Social Evolution and Inclusive Fitness Theory: An Introduction; James A.R. Marshall
Self, Logic, and Figurative Thinking; Harwood Fisher 13	Social Evolution in Ants; Andrew F.G. Bourke
Self-Organization in Biological Systems; Scott Camazine	Social Foraging Theory; Luc-Alain Giraldeau
11	Social Learning: An Introduction to Mechanisms, Methods,
Self-Organization in Complex Ecosystems. (MPB-42);	and Models; William Hoppitt
Ricard Šolé	Social Origins of Language, The; Robert M. Seyfarth 20 Solanaceae: Biology and Systematics
Secondarily Aquatic Vertebrates21	Solé, Ricard; Self-Organization in Complex Ecosystems.
Sensuous Seas: Tales of a Marine Biologist; Eugene H.	(MPB-42)21
Kaplan	Solé, Ricard; Viruses as Complex Adaptive Systems
Serendipity: An Ecologist's Quest to Understand Nature; James A. Estes	Solid Biomechanics; Roland Ennos
Serengeti Rules, The: The Quest to Discover How Life	Solitary Bees, The: Biology, Evolution, Conservation; Bryan N. Danforth
Works and Why It Matters - With a new Q&A with the author; Sean B. Carroll	Some Adaptations of Marsh-Nesting Blackbirds. (MPB-14), Volume 14; Gordon H. Orians
Serengeti Rules, The: The Quest to Discover How Life Works and Why It Matters; Sean B. Carroll	,

Spatial Ecology: The Role of Space in Population Dynamics and Interspecific Interactions (MPB-30) 21	Takhtajan, Armen; Evolutionary Trends in Flowering Plants
Spatial Optimization for Managed Ecosystems; John Hof	Takumi, Raina L.; A Systematic Review of the Ectemnius (Hymenoptera: Sphecidae) of Hawaii
Spatial Optimization in Ecological Applications; John Hof	Taste for the Beautiful, A: The Evolution of Attraction; Michael J. Ryan
Specialization, Speciation, and Radiation: The Evolutionary Biology of Herbivorous Insects	Taxonomic revision of the ant genus Linepithema (Hymenoptera: Formicidae); Alexander Wild
Species Concepts and Phylogenetic Theory: A Debate 23, 23	Taxonomy and Phylogenetics of the Coenosus Group of Hister Linnaeus, The: (Coleoptera: Histeridae); Michael S. Caterino
Species Revision and Generic Systematics of World Rileyinae (Hymenoptera: Eurytomidae); Michael W. Gates	Tellez, Marisa; A Checklist of Host-Parasite Interactions of the Order Crocodylia
	Tempo and Mode in Evolution; George Gaylord Simpson
Sperm Competition and Its Evolutionary Consequences in	
the Insects; Leigh W. Simmons	Theoretical Aspects of Population Genetics. (MPB-4), Volume 4; Motoo Kimura
May	Theoretical Morphology: The Concept and Its Applications George R. McGhee Jr
Stallcup, Rich; Field Guide to Birds of the Northern California Coast	Theoretical Studies on Sex Ratio Evolution. (MPB-22), Volume 22; Samuel Karlin
Stanford, Craig B.; The Hunting Apes: Meat Eating and the Origins of Human Behavior	Theories of Population Variation in Genes and Genomes; Freddy Bugge Christiansen
Stem Cell Dialogues: A Philosophical and Scientific Inquiry Into Medical Frontiers; Sheldon Krimsky 16, 16	Theory of Ecological Communities (MPB-57), The; Mark Vellend
Stephens, David W.; Foraging Theory	Theory of Global Biodiversity (MPB-60), A; Boris Worm
Sterner, Robert W.; Ecological Stoichiometry: The Biology of Elements from Molecules to the Biosphere	Theory of Island Biogeography Revisited, The
Stevens, Peter; The Development of Biological Systematics: Antoine-Laurent de Jussieu, Nature, and the Natural System	Theory of Island Biogeography, The; Robert H. MacArthur
	Theory of Sex Allocation. (MPB-18), Volume 18, The; Eric L. Charnov
Work of L. Luca Cavalli-Sforza	Theory That Changed Everything, The: "On the Origin of Species" as a Work in Progress; Philip Lieberman 16, 16
Approach to Distribution and Abundance	Thewissen, J. G. M. Hans; The Walking Whales: From Land to
Structural Biomaterials: Third Edition; Julian Vincent 22 Structure and Confirmation of Evolutionary Theory, The;	Water in Eight Million Years
Elisabeth A. Lloyd	Thieves, Deceivers, and Killers: Tales of Chemistry in Nature; William Agosta.
Applied Pattern Recognition	Thomson, John; American Arctic Lichens: The Macrolichens
Stuessy, Tod F.; Plant Taxonomy: The Systematic Evaluation of Comparative Data	Thoreau and the Language of Trees; Richard Higgins 15
Subramanian, Sushma; How to Feel: The Science and Meaning of Touch	Three Failures of Creationism, The: Logic, Rhetoric, and Science: Walter Fitch.
Sumida, Stuart Shigeo; Vertebral Morphology, Alternation of Neural Spine Height, and Structure in Permo-Carboniferous	Tilman, D; Resource Competition and Community Structure. (MPB-17), Volume 17
Tetrapods, and a Reappraisal of Primitive Modes of Terrestrial Locomotion	Tilman, David: Plant Strategies and the Dynamics and Structure of Plant Communities. (MPB-26), Volume 26 21
Sumpter, David J. T.; Collective Animal Behavior	Time and Complexity in Historical Ecology: Studies in the
Assessing Biodiversity; Lee-Ann C. Hayek	Neotropical Lowlands; William Balée
Symbiotic Habit, The; Angela E. Douglas	Post
Sphecidae) of Hawaii; Raina L. Takumi	World's Most Captivating Birds
Systematics and Biology of the Genus Macrocneme Hübner (Lepidoptera: Ctenuchidae); Robert E., IV Dietz	Topophilia: A Study of Environmental Perceptions, Attitudes, and Values; Yi-Fu Tuan
	Toward a Unified Ecology; Timothy F. H. Allen
Gavin Prideaux	Toxic Plants: Proceedings of the 18th annual meeting of the Society for Economic Botany, Symposium on Toxic
Systematics of Anopina Obraztsov (Lepidoptera Tortricidae: Euliini); John W. Brown	Plants, June 11-15, 1977, the University of Miami, Coral Gables, Florida
Systematics of the Chrysoxena Group of Genera (Lepidoptera: Tortricidae: Euliini); John W. Brown 10	Tracing the History of Eukaryotic Cells: The Enigmatic Smile; Betsy Dexter Dyer
Systematics, Ecology, and the Biodiversity Crisis; N	Tracks and Shadows: Field Biology as Art; Harry W. Greene
Eldredge	14, 14

Trekking Through History: The Huaorani of Amazonian Ecuador; Laura M. Rival	Wagner, Günter P.; Homology, Genes, and Evolutionary Innovation
Triapitsyn, Serguei; An Annotated Catalog of the Type Material of Aphytis (Hymenoptera: Aphelinidae) in the Entomology	Wainwright, Stephen A.; Mechanical Design in Organisms22
Research Museum, University of California at Riverside 22	Walking Whales, The: From Land to Water in Eight Million
Tropical Ecology; John Kricher	Years; J. G. M. Hans Thewissen
Troublesome Science: The Misuse of Genetics and Genomics in Understanding Race; Rob DeSalle	Wallace, B. Alan; Hidden Dimensions: The Unification of Physics and Consciousness
Tuan, Yi-Fu; Topophilia: A Study of Environmental Perceptions, Attitudes, and Values	Wallace, David Rains; Beasts of Eden: Walking Whales, Dawn Horses, and Other Enigmas of Mammal Evolution22
Tupai: A Field Study of Bornean Treeshrews; Louise H. Emmons	Wallace, David Rains; Neptune's Ark: From Ichthyosaurs to Orcas
Turchin, Peter; Complex Population Dynamics: A Theoretical/ Empirical Synthesis (MPB-35)	Waltner-Toews, David; The Ecosystem Approach: Complexity, Uncertainty, and Managing for Sustainability
Turtles of Mexico, The: Land and Freshwater Forms; John Legler	Wang, Xiaoming; Dogs: Their Fossil Relatives and Evolutionary History
Ulanowicz, Robert; Ecology, the Ascendent Perspective	War of the Sexes, The: How Conflict and Cooperation Have Shaped Men and Women from Prehistory to the Present;
Ungar, Peter; Evolution's Bite: A Story of Teeth, Diet, and Human Origins	Paul Seabright
Unified Neutral Theory of Biodiversity and Biogeography (MPB-32), The; Stephen P. Hubbell	Neurotransmitters and the Dispute Over How Nerves Communicate; Elliot S. Valenstein
Unifying Biology: The Evolutionary Synthesis and Evolutionary Biology; Vassiliki Betty Smocovitis 21	Wardle, David A.; Communities and Ecosystems: Linking the Aboveground and Belowground Components (MPB-34) 22
Unnatural Selection; Katrina van Grouw	Webster, Grady L.; Plant Diversity of an Andean Cloud Forest: Inventory of the Vascular Flora of Maquipucuna, Ecuador 22
Unsolved Problems in Ecology; Andrew Dobson 12, 12	Weitz, Joshua; Quantitative Viral Ecology: Dynamics of Viruses
Urban Bird Ecology and Conservation	and Their Microbial Hosts
Usefulness of Useless Knowledge, The; Abraham Flexner .	Wells, Spencer; The Journey of Man: A Genetic Odyssey 22 West, Stuart; Sex Allocation
	What Bugged the Dinosaurs?: Insects, Disease, and Death
Discovery of Neurotransmitters and the Dispute Over How Nerves Communicate	in the Cretaceous; George Poinar Jr
Van Den Bosch, Robert; The Pesticide Conspiracy 22	Their Genes; Jonathan Marks
van Grouw, Katrina; Unnatural Selection	Devonian Extinctions; George R. McGhee Jr 17, 17
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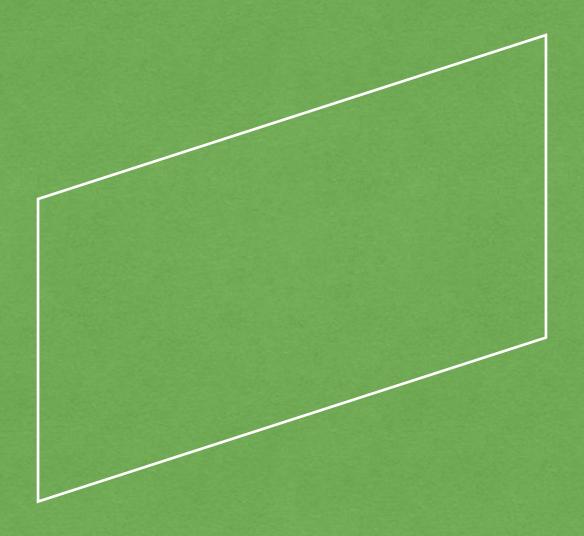
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