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Essential Readings in Evolutionary Biology

JHU Press *Traces scholarly thought from the nineteenth-century birth of evolutionary biology to the mapping of the human genome through forty-eight essays, arranged in chronological order, each preceded by a one-page essay that explains the significance of the chosen work.*

Essential Readings in Biosemiotics

Anthology and Commentary

Springer Science & Business Media *Synthesizing the findings from a wide range of disciplines – from biology and anthropology to philosophy and linguistics – the emerging field of Biosemiotics explores the highly complex phenomenon of sign processing in living systems. Seeking to advance a naturalistic understanding of the evolution and development of sign-dependent life processes, contemporary biosemiotic theory offers important new conceptual tools for the scientific understanding of mind and meaning, for the development of artificial intelligence, and for the ongoing research into the rich diversity of non-verbal human, animal and biological communication processes. Donald Favareau's Essential Readings in Biosemiotics has been designed as a single-source overview of the major works informing this new interdisciplinary, and provides scholarly historical and analytical commentary on each of the texts presented. The first of its kind, this book constitutes a valuable resource to both bioscientists and to semioticians interested in this emerging new discipline, and can function as a primary textbook for students in biosemiotics, as well. Moreover, because of its inherently interdisciplinary nature and its focus on the 'big questions' of cognition, meaning and evolutionary biology, this volume should be of interest to anyone working in the fields of cognitive science, theoretical biology, philosophy of mind, evolutionary psychology, communication studies or the history and philosophy of science.*

Naturally Selected: Original Readings in Biological Evolution

Lulu.com *This contains four original papers that are fundamental to our understanding of modern biology, including Gregor Mendel's Experiments in Plant Hybridization, Alfred Russel Wallace's On the Tendency of Varieties to Depart Indefinitely from the Original Type, Thomas H. Huxley's initial review of Darwin's On Origin of Species, and James Watson and Francis Crick's paper groundbreaking paper Molecular Structure of Nucleic Acids.*

The Philosophy of Biology

Oxford University Press on Demand *Adaptation : current usages / Mary Jane West-Eberhard / - The leibnizian paradigm / Daniel C. Dennett / - Six sayings about adaptationism / Elliott Sober / - Two concepts of constraint : adaptationism and the challenge from developmental biology / Ron Amundson / - Developmental systems and evolutionary explanation / P.E. Griffiths / - The return of the gene / Kim Sterelny / - A Critical review of philosophical work on the units of selection problem / Elliott Sober / - Function without purpose : the uses of causal role function in evolutionary biology / Ron Amundson / - Functions : consensus without unity / Peter Godfrey-Smith / - Individuality, pluralism, and the phylogenetic species concept / Brent D. Mishler / - Eliminative pluralism / Marc Ereshefsky / - Science and myth / John Maynard Smith / - Gender and science : origin, history, and politics / Evelyn Fox Keller / - Essentialism and constructionism about sexual orientation / Edward Stein / - Altruism : theoretical contexts / Alex ...*

Essential Mathematical Biology

Springer Science & Business Media *This self-contained introduction to the fast-growing field of Mathematical Biology is written for students with a mathematical background. It sets the subject in a historical context and guides the reader towards questions of current research interest. A broad range of topics is covered including: Population dynamics, Infectious diseases, Population genetics and evolution, Dispersal, Molecular and cellular biology, Pattern formation, and Cancer modelling. Particular attention is paid to situations where the simple assumptions of homogeneity made in early models break down and the process of mathematical modelling is seen in action.*

Vertebrate Biology

Systematics, Taxonomy, Natural History, and Conservation

Johns Hopkins University Press *Arranged logically to follow the most widely adopted course structure, this text will leave students with a full understanding of the unique structure, function, and living patterns of all vertebrates.*

Exploring Evolutionary Biology

Readings from American Scientist

Sinauer Associates, Incorporated *Featuring a collection of articles from American Scientist between 1983 and 1995, this book is intended to serve as supplementary reading in evolutionary biology and to introduce the reader to modern research topics in the field. The articles are by leading research scientists and illustrate the diversity of problems that evolutionary biologists encounter along the way to understanding the history of living things and the processes that govern evolutionary change.*

Immunology and Evolution of Infectious Disease

Princeton University Press *Publisher Description*

Philosophy of Biology

An Anthology

John Wiley & Sons *By combining excerpts from key historical writings with editors' introductions and further reading material, Philosophy of Biology: An Anthology offers a comprehensive, accessible, and up-to-date collection of the field's most significant works. Addresses central questions such as 'What is life?' and 'How did it begin?', and the most current research and arguments on evolution and developmental biology Editorial notes throughout the text define, clarify, and qualify ideas, concepts and arguments Includes material on evolutionary psychology and evolutionary developmental biology not found in other standard philosophy of biology anthologies Further reading material assists novices in delving deeper into research in philosophy of biology*

Sperm Competition in Humans

Classic and Contemporary Readings

Taylor & Francis *This volume presents the intricate ways in which sperm compete to fertilize eggs and how this has prompted reinterpretations of breeding behavior from a biological perspective. Sperm Competition in Humans: Classic and Contemporary Readings provides a theoretical framework for the study of sperm competition and also discusses the roles of females and the relationships between paternal care in sperm competition. The chapters focus on everything from evolutionary biology to taxonomic development.*

The Evolutionary Biology of the Human Pelvis An Integrative Approach

Cambridge University Press *Synthesizes and re-examines the evolution of the human pelvis, which sits at the interface between locomotion and childbirth.*

The Metaphysics of Evolution

Naqshbandis in the Ottoman World, 1450-1700

SUNY Press *This critical collection of essays represents the best of the best when it comes to philosophy of biology. Many chapters treat evolution as a biological phenomenon, but the author is more generally concerned with science itself. Present-day science, particularly current views on systematics and biological evolution are investigated. The aspects of these sciences that are relevant to the general analysis of selection processes are presented, and they also serve to exemplify the general characteristics exhibited by science since its inception.*

Omics Technologies Toward Systems Biology

Frontiers Media SA

Unifying Biology

The Evolutionary Synthesis and Evolutionary Biology

Princeton University Press *Unifying Biology offers a historical reconstruction of one of the most important yet elusive episodes in the history of modern science: the evolutionary synthesis of the 1930s and 1940s. For more than seventy years after Darwin proposed his theory of evolution, it was hotly debated by biological scientists. It was not until the 1930s that opposing theories were finally refuted and a unified Darwinian evolutionary theory came to be widely accepted by biologists. Using methods gleaned from a variety of disciplines, Vassiliki Betty Smocovitis argues that the evolutionary synthesis was part of the larger process of unifying the biological sciences. At the same time that scientists were working toward a synthesis between Darwinian selection theory and modern genetics, they were, according to the author, also working together to establish an autonomous community of evolutionists. Smocovitis suggests that the drive to unify the sciences of evolution and biology was part of a global philosophical movement toward unifying knowledge. In developing her argument, she pays close attention to the problems inherent in writing the history of evolutionary science by offering historiographical reflections on the practice of history and the practice of science. Drawing from some of the most exciting recent approaches in science studies and cultural studies, she argues that science is a culture, complete with language, rituals, texts, and practices. Unifying Biology offers not only its own new synthesis of the history of modern evolution, but also a new way of "doing history."*

Readings in Evolution, Genetics, and Eugenics

Friendship

The Evolution, Biology and Extraordinary Power of Life's Fundamental Bond

Bloomsbury Publishing *The phenomenon of friendship is universal. Friends, after all, are the family we choose. But what makes these bonds not just pleasant but essential, and how do they affect our bodies and our minds? In Friendship, science journalist Lydia Denworth takes us in search of the biological, psychological, and evolutionary foundations of this important bond. She finds that the human capacity for friendship is as old as humanity itself, when tribes of people on the African savanna grew large enough for individuals to seek meaningful connection with those outside their immediate families. Lydia meets scientists at the frontiers of brain and genetics research, and discovers that friendship is reflected in our brain waves, our genomes, and our cardiovascular and immune systems; its opposite, loneliness, can kill. With insight and warmth, Lydia weaves past and present, biology and neuroscience, to show how our bodies and minds are designed for friendship, and how this is changing in the age of social media. Blending compelling science, storytelling, and a grand evolutionary perspective, she delineates the essential role that cooperation and companionship play in creating human (and non-human) societies. Friendship illuminates the vital aspects of friendship, both visible and invisible, and offers a refreshingly optimistic vision of human nature. It is a clarion call for putting positive relationships at the centre of our lives.*

Readings in evolution, genetics, and eugenics

Biology of Aging

Garland Science *Biology of Aging, Second Edition presents the biological principles that have led to a new understanding of the causes of aging and describes how these basic principles help one to understand the human experience of biological aging, longevity, and age-related disease. Intended for undergraduate biology students, it describes how the rate of biological aging is measured; explores the mechanisms underlying cellular aging; discusses the genetic pathways that affect longevity in various organisms; outlines the normal age-related changes and the functional decline that occurs in physiological systems over the lifespan; and considers the implications of modulating the rate of aging and longevity. The book also includes end-of-chapter discussion questions to help students assess their knowledge of the material. Roger McDonald received his Ph.D. from the University of Southern California and is Professor Emeritus in the Department of Nutrition at the University of California, Davis. Dr. McDonald's research focused on mechanisms of cellular aging and the interaction between nutrition and aging. His research addressed two key topics in the field: the relationship between dietary restriction and lifespan, and the effect of aging on circadian rhythms and hypothalamic regulation. You can contact Dr. McDonald at rbmcdonald@ucdavis.edu. Related Titles Ahmad, S. I., ed. Aging: Exploring a Complex Phenomenon (ISBN 978-1-1381-9697-1) Moody, H. R. & J. Sasser. Gerontology: The Basics (ISBN 978-1-1387-7582-4) Timiras, P. S. Physiological Basis of Aging and Geriatrics (ISBN 978-0-8493-7305-3)*

Bioinformatics and Molecular Evolution

Wiley-Blackwell

A Unifying Theory of Evolution Generated by Means of Information Modelling

IOS Press *Stringent ways of thinking, 'conceptual frameworks', are necessary in science. The drawback is that the associated assumptions, concepts, rules and practice may become so deeply entrenched that they turn into tacit knowledge and hence give rise to constraints in scientific thought and practice - that is, a new kind of plethora that seriously blinds and thereby hampers scientific progress. This book, 'A Unifying Theory of Evolution Generated by Means of Information Modelling', presents a methodology for describing complex knowledge domains. It applies a template information model based on a dynamic structure of interrelated functions, called the Mereon Matrix. Application of this template model to the field of evolutionary theories enabled the unification of the sometimes chaotic and competing field of evolutionary theories, large and small, seamlessly in a shared framework. The author has Masters degrees in both biochemistry and computer science, as well as a European Doctorate and PhD in health informatics and has spent 35 years in full-time research. It is her particular combination of professional experience and expertise together with the template information model which has enabled her to write this book. Whilst primarily aimed at a scientific audience, and evolutionary biologists in particular, the book will be of interest to all those looking for new approaches to exploring and explaining phenomena in nature, and because the text is largely non-technical in nature, much of the content will also be accessible to a wider readership.*

Biology Essentials For Dummies

John Wiley & Sons *Biology Essentials For Dummies (9781119589587) was previously published as Biology Essentials For Dummies (9781118072677). While this version features a new Dummies cover and design, the content is the same as the prior release and should not be considered a new or updated product. Just the core concepts you need to score high in your biology course Biology Essentials For Dummies focuses on just the core concepts you need to succeed in an introductory biology course. From identifying the structures and functions of plants and animals to grasping the crucial discoveries in evolutionary, reproductive, and ecological biology, this easy-to-follow guide lets you skip the suffering and score high at exam time. Get down to basics — master the fundamentals, from understanding what biologists study to how living things are classified The chemistry of life — find out what you need to know about atoms, elements, molecules, compounds, acids, bases, and more Conquer and divide — discover the ins and outs of asexual and sexual reproduction, including cell division and DNA replication Jump into the gene pool — grasp how proteins make traits happen, and easily understand DNA transcription, RNA processing, translation, and gene regulation.*

The Social Meaning of Modern Biology From Social Darwinism to Sociobiology

Routledge *The Social Meaning of Modern Biology* analyzes the cultural significance of recurring attempts since the time of Darwin to extract social and moral guidance from the teachings of modern biology. Such efforts are often dismissed as ideological defenses of the social status quo, of the sort wrongly associated with nineteenth-century social Darwinism. Howard Kaye argues they are more properly viewed as culturally radical attempts to redefine who we are by nature and thus rethink how we should live. Despite the scientific and philosophical weaknesses of arguments that "biology is destiny," and their dehumanizing potential, in recent years they have proven to be powerfully attractive. They will continue to be so in an age enthralled by genetic explanations of human experience and excited by the prospect of its biological control. In the ten years since the original edition of *The Social Meaning of Modern Biology* was published, changes in both science and society have altered the terms of debate over the nature of man and human culture. Kaye's epilogue thoroughly examines these changes. He discusses the remarkable growth of ethology and sociobiology in their study of animal and human behavior and the stunning progress achieved in neuropsychology and behavioral genetics. These developments may appear to bring us closer to long-sought explanations of our physical, mental, and behavioral "machinery." Yet, as Kaye demonstrates, attempts to use such explanations to unify the natural and social sciences are mired in self-contradictory accounts of human freedom and moral choice. *The Social Meaning of Modern Biology* remains a significant study in the field of sociobiology and is essential reading for sociologists, biologists, behavioral geneticists, and psychologists.

Encyclopedia of Evolution

Infobase Publishing Evolutionary science is not only one of the greatest breakthroughs of modern science, but also one of the most controversial. Perhaps more than any other scientific area, evolutionary science has caused us all to question what we are, where we came from, and how we relate to the rest of the universe. *Encyclopedia of Evolution* contains more than 200 entries that span modern evolutionary science and the history of its development. This comprehensive volume clarifies many common misconceptions about evolution. For example, many people have grown up being told that the fossil record does not demonstrate an evolutionary pattern, and that there are many missing links. In fact, most of these missing links have been found, and their modern representatives are often still alive today. The biographical entries represent evolutionary scientists within the United States who have had and continue to have a major impact on the broad outline of evolutionary science. The biographies chosen reflect the viewpoints of scientists working within the United States. Five essays that explore interesting questions resulting from studies in evolutionary science are included as well. The appendix consists of a summary of Charles Darwin's *Origin of Species*, which is widely considered to be the foundational work of evolutionary science and one of the most important books in human history. The five essays include: How much do genes control human behavior? What are the ghosts of evolution? Can an evolutionary scientist be religious? Why do humans die? Are humans alone in the universe

Evolutionary Psychiatry

Current Perspectives on Evolution and Mental Health

Cambridge University Press This book explores how insights from evolution can transform our understanding of mental health and mental disorder.

Origins of Mind

Springer Science & Business Media The big question of how and why mindedness evolved necessitates collaborative, multidisciplinary investigation. Biosemiotics provides a new conceptual space that attracts a multitude of thinkers in the biological and cognitive sciences and the humanities who recognize continuity in the biosphere from the simplest to the most complex organisms, and who are united in the project of trying to account for even language and human consciousness in this comprehensive picture of life. The young interdisciplinary of biosemiotics has so far by and large focused on codes, signs and sign processes in the microworld—a fact that reflects the field's strong representation in microbiology and embryology. What philosophers of mind and cognitive scientists can contribute to the growing interdisciplinary are insights into how the biosemiotic *weltanschauung* applies to complex organisms like humans where such signs and sign processes constitute human society and culture.

Evolutionary Biology

Volume 16

Springer Science & Business Media Sixteen volumes and one supplement have now appeared in the series known as *Evolutionary Biology*. The editors continue to seek critical reviews, original papers, and commentaries on controversial topics. It is our aim to publish papers primarily of greater length and depth than those normally published by society journals and quarterlies. The editors make every attempt to solicit manuscripts on an international scale and to see that every facet of evolutionary biology—classical or modern—is covered. Manuscripts should be sent to anyone of the following: Max K. Hecht, Department of Biology, Queens College of the City University of New York, Flushing, New York 11367; Bruce Wallace, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, Virginia 24061; Ghilleen T. Prance, New York Botanical Garden, Bronx, New York 10458. The Editors vii Contents 1. Darwinian Selection of Self-Replicating RNA Molecules 1 Christ(—r K. Biehricher Introduction 2 Extracellular Darwinian Experiments. 5 Characterization of the Q13 Replicase. 9 Nonviral RNA Templates of Q13 Replicase. II The Mechanism of RNA Replication 14 Initiation of Replication and Template Specificity 14 Mechanism of Replica Chain Elongation. 17 Termination of Replication. 19 Replication of RNA Variants 21 The Quasispecies 23 De NOI'O Synthesis of Self-Replicating RNA. 27 The Mechanism of Selection 32 Selection in the Exponential Growth Phase. 32 Selection in the Linear Growth Phase. 35 Conclusions 41 Appendix I. Replication. 42 Appendix II. The Quasispecies. 43 Appendix III. Selection under Various Conditions 44 References

Molecular Biology of Evolution

Discovery Publishing House

Science as a Way of Knowing

The Foundations of Modern Biology

Harvard University Press This book makes Moore's wisdom available to students in a lively, richly illustrated account of the history and workings of life. Employing rhetoric strategies including case histories, hypotheses and deductions, and chronological narrative, it provides both a cultural history of biology and an introduction to the procedures and values of science.

Working with Affect in Feminist Readings

Disturbing Differences

Routledge Affect has become something of a buzzword in cultural and feminist theory during the past decade. References to affect, emotions and intensities abound, their implications in terms of research practices have often remained less manifest. *Working with Affect in Feminist Readings: Disturbing Differences* explores the place and function of affect in feminist knowledge production in general and in textual methodology in particular. With an international group of contributors from studies of history, media, philosophy, culture, ethnology, art, literature and religion, the volume investigates affect as the dynamics of reading, as carnal encounters and as possibilities for the production of knowledge. *Working with Affect in Feminist Readings* asks what exactly are we doing when working with affect, and what kinds of ethical, epistemological and ontological issues this involves. Not limiting itself to descriptive accounts, the volume takes part in establishing new ways of understanding feminist methodology.

Cells in Evolutionary Biology

Translating Genotypes into Phenotypes - Past, Present, Future

CRC Press This book is the first in a projected series on *Evolutionary Cell Biology*, the intent of which is to demonstrate the essential role of cellular mechanisms in transforming the genotype into the phenotype by transforming gene activity into evolutionary change in morphology. This book — *Cells in Evolutionary Biology* — evaluates the evolution of cells themselves and the role cells have been viewed to play as agents of change at other levels of biological organization. Chapters explore Darwin's use of cells in his theory of evolution and how Weismann's theory of the separation of germ plasma from body cells brought cells to center stage in understanding how acquired changes to cells within generations are not passed on to future generations. The study of evolution through the analysis of cell lineages during embryonic development dominated evolutionary cell biology until usurped by the switch to genes as the agents of heredity in the first decades of the 20th century. Discovery that cells

exchanged organelles via symbiosis led to a fundamental reevaluation of prokaryotic and eukaryotic cells and to a reorganizations of the Tree of Life. Identification of cellular signaling centers, of mechanisms responsible for cellular patterning, and of cell behavior and cellular condensations as mediating the plasticity that enables phenotypic change during evolution, provided powerful new synergies between cell biology and evolutionary theory and the basis for Evolutionary Cell Biology.

Mammalian Evolution, Diversity and Systematics

Walter de Gruyter GmbH & Co KG There are nearly 6,000 mammalian species, among them our own. Research on our evolutionary cousins has a long history, but the last 20 years have seen particularly rapid progress in disentangling the interrelationships and evolutionary history of mammals. The present volume combines up-to-date reviews on mammalian phylogenetics with paleontological, taxonomic and evolutionary chapters and also summarizes the historical development of our insights in mammalian relationships, and thus our own place in the Tree of Life. Our book places the present biodiversity crisis in context, with one in four mammal species threatened by extinction, and reviews the distribution and conservation of mammalian diversity across the globe. This volume is the introductory tome to the new Mammalia series of the Handbook of Zoology and will be essential reading for mammalogists, zoologists and conservationists alike.

Reading America

Text as a Cultural Force

Academica Press, LLC Monograph analyses and discusses textuality and legal written tradition in American legal writing.

Essentials of Psychology

Cengage Learning In a concise and accessible format that incorporates the latest research, *ESSENTIALS OF PSYCHOLOGY*, 6th Edition, encourages you to learn by doing--to actively participate using materials from the text and to think about what you're learning as opposed to passively receiving written information. Effective learning features that help you master the material include Linkages that show how topics in psychology are interrelated, Thinking Critically sections that walk you through a five-question approach to one topic in each chapter, and Focus on Research sections organized around questions to help you learn to think objectively about research questions and results. Available with InfoTrac Student Collections <http://goengage.com/infotrac>. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Why Evolution is True

OUP Oxford For all the discussion in the media about creationism and 'Intelligent Design', virtually nothing has been said about the evidence in question - the evidence for evolution by natural selection. Yet, as this succinct and important book shows, that evidence is vast, varied, and magnificent, and drawn from many disparate fields of science. The very latest research is uncovering a stream of evidence revealing evolution in action - from the actual observation of a species splitting into two, to new fossil discoveries, to the deciphering of the evidence stored in our genome. *Why Evolution is True* weaves together the many threads of modern work in genetics, palaeontology, geology, molecular biology, anatomy, and development to demonstrate the 'indelible stamp' of the processes first proposed by Darwin. It is a crisp, lucid, and accessible statement that will leave no one with an open mind in any doubt about the truth of evolution.

Theory and Implementation of Economic Models for Sustainable Development

Springer Science & Business Media There is widespread concern for long-term environmental issues in relation to economic processes and developments. Among the concerned scientists are economists, who have taken up the challenge to apply economic insights and tools for the study of long-term environment-economy interactions, and to give the concept of sustainable development 'economic hands and feet'. This book presents a pluralistic perspective on efforts, problems and successes in this area. This collection of papers was originally prepared for an international symposium titled *Economic Modelling of Sustainable Development: Between Theory and Practice*, which was hosted by the Vrije Universiteit in Amsterdam, on December 20th 1996. The main motivation for this symposium was that the usefulness of the concept of sustainable development for theoretical and applied modelling is still being debated; growth theorists, resource economists, ecological economists, policy makers and many others are trying to deal with the concept in various, and sometimes conflicting, ways. The aim of the symposium was to bring together different theoretical and implementational perspectives on modelling for sustainable development. We hope that this volume will inform a wide audience about the perspectives and progress in this important area of research, as well as stimulate further research, notably on applied modelling and practical methods for the analysis of sustainable development at various (spatial) scales. The papers have, in due course, been revised several times based on comments made by discussants, referees and the editors.

Immunology and Evolution of Infectious Disease

Princeton University Press From HIV to influenza, the battle between infectious agents and the immune system is at the heart of disease. Knowledge of how and why parasites vary to escape recognition by the immune system is central to vaccine design, the control of epidemics, and our fundamental understanding of parasite ecology and evolution. As the first comprehensive synthesis of parasite variation at the molecular, population, and evolutionary levels, this book is essential reading for students and researchers throughout biology and biomedicine. The author uses an evolutionary perspective to meld the terms and findings of molecular biology, immunology, pathogen biology, and population dynamics. This multidisciplinary approach offers newcomers a readable introduction while giving specialists an invaluable guide to allied subjects. Every aspect of the immune response is presented in the functional context of parasite recognition and defense--an emphasis that gives structure to a tremendous amount of data and brings into sharp focus the great complexity of immunology. The problems that end each chapter set the challenge for future research, and the text includes extensive discussion of HIV, influenza, foot-and-mouth disease, and many other pathogens. This is the only book that treats in an integrated way all factors affecting variation in infectious disease. It is a superb teaching tool and a rich source of ideas for new and experienced researchers. For molecular biologists, immunologists, and evolutionary biologists, this book provides new insight into infectious agents, immunity, and the evolution of infectious disease.

New Scientist

New Scientist magazine was launched in 1956 "for all those men and women who are interested in scientific discovery, and in its industrial, commercial and social consequences". The brand's mission is no different today - for its consumers, New Scientist reports, explores and interprets the results of human endeavour set in the context of society and culture.

Contemporary Readings in Biology

Ardent Media

Sewall Wright and Evolutionary Biology

University of Chicago Press "Provine's thorough and thoroughly admirable examination of Wright's life and influence, which is accompanied by a very useful collection of Wright's papers on evolution, is the best we have for any recent figure in evolutionary biology."—Joe Felsenstein, *Nature* "In *Sewall Wright and Evolutionary Biology* . . . Provine has produced an intellectual biography which serves to chart in considerable detail both the life and work of one man and the history of evolutionary theory in the middle half of this century. Provine is admirably suited to his task. . . . The resulting book is clearly a labour of love which will be of great interest to those who have a mature interest in the history of evolutionary theory."—John Durant, *Times Higher Education Supplement*; X

A Critical Introduction to Language Evolution

Current Controversies and Future Prospects

Springer This book provides a critical introduction to the current views and controversies regarding language evolution. It sheds new light on hot topics such as: How ancient is language? Did Neanderthals have some form of language? Did language evolve gradually and incrementally, through stages, or suddenly, in one leap, in all its complexity? Does language evolution involve natural selection or not? This book is essential reading for scholars and students interested in language evolution, especially those in the fields of linguistics, psychology, biology, anthropology, and neuroscience.