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Science, Evolution, and Creationism

"(A) lively book . . . on how biologists study living things. . . . Its range is enormous. . . . This is an old-fashioned book, to be read slowly, more than once, and to be thought about afterward".--Ann Finkbeiner, "The New York Times Book Review".
Chart.

A Talent for Friendship

This text for the graduate or advanced undergraduate student assembles the latest information summarizing regional, systematic, and theoretical aspects of the early metazoa. The work consists of articles written by experts from around the world and includes literature from Russia and China translated for the first time into English.

Psychology

This textbook brings together leading experts to provide a comprehensive and practical review of common clinical, organisational, and ethical issues in correctional psychiatry.

The Neurobiology of Olfaction

Causation and Counterfactuals

Members of the mammalian clade Carnivora have invaded nearly every continent and ocean, evolving into bamboo-eating pandas, clam-eating walruses and of course, flesh-eating sabre-toothed cats. With this ecological, morphological and taxonomic diversity and a fossil record spanning over sixty million years, Carnivora has proven to be a model clade for addressing questions of broad evolutionary significance. This volume brings together top international scientists with contributions that focus on current advances in our understanding of carnivoran relationships, ecomorphology and macroevolutionary patterns. Topics range from the palaeoecology of the earliest fossil carnivorans to the influences of competition and constraint on diversity and biogeographic distributions. Several studies address ecomorphological convergences among carnivorans and other mammals with morphometric and Finite Element analyses, while others consider how new molecular and palaeontological data have changed our understanding of carnivoran phylogeny. Combined, these studies also illustrate the diverse suite of approaches and questions in evolutionary biology and palaeontology.

The Entrepreneur in Rule-Based Economics

Biology

Narrow Roads of Gene Land: Volume 2: Evolution of Sex

"Originally published in hardcover by Little,Brown and Company, July 1951"--T.p. vers

International Review of Cytology

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Animal Evolution

With the combined expertise of leading hand surgeons and therapists, *Rehabilitation of the Hand and Upper Extremity*, 6th Edition, by Drs. Skirven, Osterman, Fedorczyk and Amadio, helps you apply the best practices in the rehabilitation of hand, wrist, elbow, arm and shoulder problems, so you can help your patients achieve the highest level of function possible. This popular, unparalleled text has been updated with 30 new chapters that include the latest information on arthroscopy, imaging, vascular disorders, tendon transfers, fingertip injuries, mobilization techniques, traumatic brachial plexus injuries, and pain management. An expanded editorial team and an even more geographically diverse set of contributors provide you with a fresh, authoritative, and truly global perspective while new full-color images and photos provide unmatched visual guidance. Access the complete contents online at www.expertconsult.com along with streaming video of surgical and rehabilitation techniques, links to Pub Med, and more. Provide the best patient care and optimal outcomes with trusted guidance from this multidisciplinary, comprehensive resource covering the entire upper extremity, now with increased coverage of wrist and elbow problems. Apply the latest treatments, rehabilitation protocols, and expertise of leading surgeons and therapists to help your patients regain maximum movement after traumatic injuries or to improve limited functionality caused by chronic or acquired conditions. Effectively implement the newest techniques detailed in new and updated chapters on a variety of sports-specific and other acquired injuries, and chronic disorders. Keep up with the latest advances in arthroscopy, imaging, vascular disorders, tendon transfers, fingertip injuries, mobilization techniques, traumatic brachial plexus injuries, and pain management. See conditions and treatments as they appear in practice thanks to detailed, full-color design, illustrations, and photographs. Access the full contents online with streaming video of surgical and rehabilitation techniques, downloadable patient handouts, links to Pub Med, and regular updates at www.expertconsult.com. Get a fresh perspective from seven new section editors, as well as an even more geographically diverse set of contributors.

Ragtime

This edition of *Science and Creationism* summarizes key aspects of several of the most important lines of evidence supporting evolution. It describes some of the positions taken by advocates of creation science and presents an analysis of these claims. This document lays out for a broader audience the case against presenting religious concepts in science classes. The document covers the origin of the universe, Earth, and life; evidence supporting biological evolution; and human evolution. (Contains 31 references.) (CCM)

Neurodegeneration in Multiple Sclerosis

According to polling data, most Americans doubt that evolution is a real phenomenon. And it's no wonder that so many are skeptical: many of today's biology courses and textbooks dwell on the mechanisms of evolution—natural selection, genetic drift, and gene flow—but say little about the evidence that evolution happens at all. How do we know that species change? Has there really been enough time for evolution to operate? With *The Evidence for Evolution*, Alan R. Rogers provides an elegant, straightforward text that details the evidence for evolution. Rogers covers different levels of evolution, from within-species changes, which are much less challenging to see and believe, to much larger ones, say, from fish to amphibian, or from land mammal to whale. For each case, he supplies numerous lines of evidence to illustrate the changes, including fossils, DNA, and radioactive isotopes. His comprehensive treatment stresses recent advances in knowledge but also recounts the give and take between skeptical scientists who first asked “how can we be sure” and then marshaled scientific evidence to attain certainty. *The Evidence for Evolution* is a valuable addition to the literature on evolution and will be essential to introductory courses in the life sciences.

Evolution by Sexual Selection Theory

This Is Biology

Concepts of Biology is designed for the single-semester introduction to biology course for non-science majors, which for many students is their only college-level science course. As such, this course represents an important opportunity for students to develop the necessary knowledge, tools, and skills to make informed decisions as they continue with their lives. Rather than being mired down with facts and vocabulary, the typical non-science major student needs information presented in a way that is easy to read and understand. Even more importantly, the content should be meaningful. Students do much better when they understand why biology is relevant to their everyday lives. For these reasons, Concepts of Biology is grounded on an evolutionary basis and includes exciting features that highlight careers in the biological sciences and everyday applications of the concepts at hand. We also strive to show the interconnectedness of topics within this extremely broad discipline. In order to meet the needs of today's instructors and students, we maintain the overall organization and coverage found in most syllabi for this course. A strength of Concepts of Biology is that instructors can customize the book, adapting it to the approach that works best in their classroom. Concepts of Biology also includes an innovative art program that incorporates critical thinking and clicker questions to help students understand--and apply--key concepts.

Polyploidy and Genome Evolution

Build a solid foundation of knowledge based on the fundamentals and employ step-by-step instruction from Spine Surgery. Edited by Edward C. Benzel, this best-selling medical reference explores the full spectrum of surgical techniques used in spine surgery and delivers the comprehensive, cutting-edge guidance you need to achieve successful outcomes. Online access, thorough updates, contributions by leading international authorities, an abundance of detailed illustrations, and procedural video clips provide everything you need to avoid and manage complex problems. Glean essential, up-to-date, need-to-know information in one comprehensive reference that explores the full spectrum of surgical techniques used in spine surgery. Hone your surgical skills and technique with intraoperative videos and more than 800 outstanding illustrations demonstrating each technique step by step. Grasp and apply the latest knowledge from more than 25 brand-new chapters, as well as extensive revisions or total rewrites to the majority of existing chapters to present all of the most up-to-date information available on every aspect of spine surgery including motion preservation technologies, endovascular management, back pain and psychosocial interactions, biomechanics, and more. Consult with the best. Renowned neurosurgery authority Edward C. Benzel leads an international team of accomplished neurosurgeons and orthopedic surgeons - many new to this edition - who provide dependable guidance and share innovative approaches to surgical techniques and complications management. Equip yourself to address increasing occurrences of pain among aging and physically active patients. Access the information you need, where you need it on your laptop or mobile device via expertconsult.com, with fully searchable text, a wealth of procedural videos, online updates from the experts, downloadable image gallery and links to PubMed.

Administrative Rulemaking

Oxford Textbook of Correctional Psychiatry

In 1996, the Institute of Medicine (IOM) released its report Telemedicine: A Guide to Assessing Telecommunications for Health Care. In that report, the IOM Committee on Evaluating Clinical Applications of Telemedicine found telemedicine is similar in most respects to other technologies for which better evidence of effectiveness is also being demanded. Telemedicine, however, has some special characteristics-shared with information technologies generally-that warrant particular notice from evaluators and decision makers. Since that time, attention to telehealth has continued to grow in both the public and private sectors. Peer-reviewed journals and professional societies are devoted to telehealth, the federal government provides grant funding to promote the use of telehealth, and the private technology industry continues to develop new applications for telehealth. However, barriers remain to the use of telehealth modalities, including issues related to reimbursement, licensure, workforce, and costs. Also, some areas of telehealth have developed a stronger evidence base than others. The Health Resources and Service Administration (HRSA) sponsored the IOM in holding a

workshop in Washington, DC, on August 8-9 2012, to examine how the use of telehealth technology can fit into the U.S. health care system. HRSA asked the IOM to focus on the potential for telehealth to serve geographically isolated individuals and extend the reach of scarce resources while also emphasizing the quality and value in the delivery of health care services. This workshop summary discusses the evolution of telehealth since 1996, including the increasing role of the private sector, policies that have promoted or delayed the use of telehealth, and consumer acceptance of telehealth. The Role of Telehealth in an Evolving Health Care Environment: Workshop Summary discusses the current evidence base for telehealth, including available data and gaps in data; discuss how technological developments, including mobile telehealth, electronic intensive care units, remote monitoring, social networking, and wearable devices, in conjunction with the push for electronic health records, is changing the delivery of health care in rural and urban environments. This report also summarizes actions that the U.S. Department of Health and Human Services (HHS) can undertake to further the use of telehealth to improve health care outcomes while controlling costs in the current health care environment.

Science and Creationism

The second volume of the collected papers of W D Hamilton, the most important theoretical biologist of the 20th century. Volume 1, *The Evolution of Social Behaviour* (OUP, still in print), was devoted to the first half of Hamilton's life's work; Volume 2 is devoted to the other half, on sex and sexual selection. Each paper is accompanied by a specially-written autobiographical introduction.

Biology

International Review of Cytology

Concepts of Biology

Today many school students are shielded from one of the most important concepts in modern science: evolution. In engaging and conversational style, *Teaching About Evolution and the Nature of Science* provides a well-structured framework for understanding and teaching evolution. Written for teachers, parents, and community officials as well as scientists and educators, this book describes how evolution reveals both the great diversity and similarity among the Earth's organisms; it explores how scientists approach the question of evolution; and it illustrates the nature of science as a way of knowing about the natural world. In addition, the book provides answers to frequently asked questions to help readers understand many of the issues and misconceptions about evolution. The book includes sample activities for teaching about evolution and the nature of science. For example, the book includes activities that investigate fossil

footprints and population growth that teachers of science can use to introduce principles of evolution. Background information, materials, and step-by-step presentations are provided for each activity. In addition, this volume: Presents the evidence for evolution, including how evolution can be observed today. Explains the nature of science through a variety of examples. Describes how science differs from other human endeavors and why evolution is one of the best avenues for helping students understand this distinction. Answers frequently asked questions about evolution. Teaching About Evolution and the Nature of Science builds on the 1996 National Science Education Standards released by the National Research Council--and offers detailed guidance on how to evaluate and choose instructional materials that support the standards. Comprehensive and practical, this book brings one of today's educational challenges into focus in a balanced and reasoned discussion. It will be of special interest to teachers of science, school administrators, and interested members of the community.

The Biology and Evolution of Fossil Plants

Comprehensive Overview of Advances in Olfaction The common belief is that human smell perception is much reduced compared with other mammals, so that whatever abilities are uncovered and investigated in animal research would have little significance for humans. However, new evidence from a variety of sources indicates this traditional view is likely overly simplistic. The Neurobiology of Olfaction provides a thorough analysis of the state-of-the-science in olfactory knowledge and research, reflecting the growing interest in the field. Authors from some of the most respected laboratories in the world explore various aspects of olfaction, including genetics, behavior, olfactory systems, odorant receptors, odor coding, and cortical activity. Until recently, almost all animal research in olfaction was carried out on orthonasal olfaction (inhalation). It is only in recent years, especially in human flavor research, that evidence has begun to be obtained regarding the importance of retronasal olfaction (exhalation). These studies are beginning to demonstrate that retronasal smell plays a large role to play in human behavior. Highlighting common principles among various species - including humans, insects, *Xenopus laevis* (African frog), and *Caenorhabditis elegans* (nematodes) - this highly interdisciplinary book contains chapters about the most recent discoveries in odor coding from the olfactory epithelium to cortical centers. It also covers neurogenesis in the olfactory epithelium and olfactory bulb. Each subject-specific chapter is written by a top researcher in the field and provides an extensive list of reviews and original articles for students and scientists interested in further readings.

The Role of Telehealth in an Evolving Health Care Environment

Designed to help readers learn how to "think" like evolutionary biologists, this 4-color book approaches evolutionary biology as a dynamic field of inquiry and as a "process." Using a theme-based approach, it illustrates the interplay between theory,

observation, testing and interpretation. It offers commentary on strengths and weaknesses of data sets, gives detailed examples rather than a broad synoptic approach, includes many data graphics and boxes regarding both sides of controversies. Introduces each major organizing theme in evolution through a question--e.g., How has HIV become drug resistant? Why did the dinosaurs, after dominating the land vertebrates for 150 million years, suddenly go extinct? Are humans more closely related to gorillas or to chimpanzees? Focuses on many applied, reader-relevant topics--e.g., evolution and human health, the evolution of senescence, sexual selection, social behavior, eugenics, and biodiversity and conservation. Then develops the strategies that evolutionary biologists use for finding an answers to such questions. Then considers the observations and experiments that test the predictions made by competing hypotheses, and discusses how the data are interpreted. For anyone interested in human evolution, including those working in human and animal health care, environmental management and conservation, primary and secondary education, science journalism, and biological and medical research.

Rehabilitation of the Hand and Upper Extremity, 2-Volume Set E-Book

Written by world-renowned scientists, the volume provides a state-of-the-art on the most recent MRI techniques related to MS, and it is an indispensable tool for all those working in this field. The context in which this book exists is that there is an increasing perception that modern MR methodologies should be more extensively employed in clinical trials to derive innovative information.

Spine Surgery 2-Vol Set E-Book

Polyploidy - whole-genome duplication (WGD) - is a fundamental driver of biodiversity with significant consequences for genome structure, organization, and evolution. Once considered a speciation process common only in plants, polyploidy is now recognized to have played a major role in the structure, gene content, and evolution of most eukaryotic genomes. In fact, the diversity of eukaryotes seems closely tied to multiple WGDs. Polyploidy generates new genomic interactions - initially resulting in "genomic and transcriptomic shock" - that must be resolved in a new polyploid lineage. This process essentially acts as a "reset" button, resulting in genomic changes that may ultimately promote adaptive speciation. This book brings together for the first time the conceptual and theoretical underpinnings of polyploid genome evolution with syntheses of the patterns and processes of genome evolution in diverse polyploid groups. Because polyploidy is most common and best studied in plants, the book emphasizes plant models, but recent studies of vertebrates and fungi are providing fresh perspectives on factors that allow polyploid speciation and shape polyploid genomes. The emerging paradigm is that polyploidy - through alterations in genome structure and gene regulation - generates genetic and phenotypic novelty that manifests itself at the chromosomal, physiological, and organismal levels, with long-term ecological

and evolutionary consequences.

Carnivoran Evolution

How did life evolve on Earth? The answer to this question can help us understand our past and prepare for our future. Although evolution provides credible and reliable answers, polls show that many people turn away from science, seeking other explanations with which they are more comfortable. In the book *Science, Evolution, and Creationism*, a group of experts assembled by the National Academy of Sciences and the Institute of Medicine explain the fundamental methods of science, document the overwhelming evidence in support of biological evolution, and evaluate the alternative perspectives offered by advocates of various kinds of creationism, including "intelligent design." The book explores the many fascinating inquiries being pursued that put the science of evolution to work in preventing and treating human disease, developing new agricultural products, and fostering industrial innovations. The book also presents the scientific and legal reasons for not teaching creationist ideas in public school science classes. Mindful of school board battles and recent court decisions, *Science, Evolution, and Creationism* shows that science and religion should be viewed as different ways of understanding the world rather than as frameworks that are in conflict with each other and that the evidence for evolution can be fully compatible with religious faith. For educators, students, teachers, community leaders, legislators, policy makers, and parents who seek to understand the basis of evolutionary science, this publication will be an essential resource.

Student Interactive Workbook for Starr/Taggart/Evers/Starr's Biology: The Unity and Diversity of Life, 13th

Inter-professional education that begins in undergraduate or graduate-entry programs has been accepted by universities as a proven method for fostering collaborative practice among health professionals yet there are few truly multidisciplinary books about evidence-based practice that meet the needs of undergraduate and postgraduate students enrolled in inter-professional courses. *Evidence-based Practice across the Health Professions* is designed to meet this need. It provides the reader with an excellent foundation in the knowledge and skills necessary to perform and understand the implications of evidence-based practice within a healthcare environment. It discusses the critical role of clinical reasoning and includes a range of practical strategies to facilitate shared decision making and effective communication with clients for improved client outcomes. Evidence-based decision making is common to all professions and provides an ideal platform for multidisciplinary work. With this in mind, to facilitate an understanding of how evidence may be integrated into clinical practice there are a number of chapters that contain worked examples from many different health professions that demonstrate appraisals of the methodological quality and interpretation of results for a number of different methodologies (such as randomised controlled trials, diagnostic studies, cohort studies, and qualitative research). Health professionals

from a range of disciplines will benefit from familiarity with the intervention being evaluated, the context of the intervention, and the outcome measures used. Evidence-based Practice across the Health Professions is of direct relevance to all health profession students and practitioners engaged in client care and in making informed clinical decisions in order to achieve better client outcomes. worked examples of a wide range of case scenarios and appraised papers (some are discipline-specific and others are multidisciplinary) designed to be used by students from a wide range of health professions, thus facilitating the student's ability to understand the needs of multi-disciplinary health-care teams in a real-life setting includes a detailed chapter on implementing evidence into practice and other topics that are not typically addressed in other texts, such as a chapter about how to communicate evidence to clients and another that discusses the role of clinical reasoning in evidence-based practice summary points at the end of each chapter supported by an Evolve resource package that contains revision questions that utilize a range of question formats This book will provide the reader with the basic knowledge and skills necessary to be an evidence-based clinician and to understand the implications of evidence-based practice (EBP) in the overall healthcare environment. The book will contain two parts. Part 1 provides the EBP content that is generic to most health professions. The Part 2 provides information about the EBP-related issues that are specific to each health profession and to multidisciplinary teams. Part 1 will cover all of the key steps in the EBP process, such as formulating clinical questions, knowing what type of evidence is appropriate for various clinical questions, finding evidence effectively, appraising the various types of evidence, and making sense of the results sections of papers. It will also include a chapter on research translation and implementing EBP and other topics not typically addressed in other texts, such as how to communicate evidence to clients and other stakeholders, and the importance of clinical reasoning in EBP.

The Catcher in the Rye

This is an extensive revision of the first (and still, only) introductory astronomy text to take a "discovery activities" approach to learning astronomy, encouraging students to be active rather than passive learners. Students use an equipment kit included with the book to construct observing instruments, including a telescope, so they can carry out measurement activities and obtain direct experience in the scientific gathering and analyzing of data. The text is flexible; it is not a lab manual. The equipment kit is available separately; it contains a simple telescope, a cross-staff, quadrant, spectroscope, Ray Box grill, telescope, and diffraction grating. Changes in this new edition include greater adaptability of the text, updated astrophysics, observations from the Voyager mission, discussion of grand unified theories and of the inflationary universe.

The Evidence for Evolution

Advances in Botanical Research publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences. Features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology. This thematic volume features reviews on Mitochondrial genome evolution. Publishes in-depth and up-to-date reviews on a wide range of topics in plant sciences Features a wide range of reviews by recognized experts on all aspects of plant genetics, biochemistry, cell biology, molecular biology, physiology and ecology This thematic volume features reviews on mitochondrial genome evolution

Origin and Early Evolution of the Metazoa

Teaching About Evolution and the Nature of Science

A collection of important recent work on the counterfactual analysis of causation.

Book Review Digest

Psychology, Third Edition, builds upon the experience and reputations of Phil Zimbardo and Ann Weber with the addition of a new co-author, Bob Johnson, who has a wealth of teaching experience at the community college level. This briefer, less expensive book presents psychology in a meaningful, manageable format that focuses on the key questions and core concepts of psychology. Introductory psychology covers such a wide range of topics and issues that it becomes difficult for readers to see the forest for the trees. To make key psychological concepts more meaningful, the authors found inspiration in a classic chess study. This study showed that experts did no better than novices at remembering the location of pieces on a chess board when they were placed randomly. Only when the patterns represented actual game situations did they make sense and therefore become more easily memorable for the experts. Clearly, meaningful patterns are easier to remember and understand than random arrangements, and Psychology applies this by presenting the field of psychology in meaningful patterns to enhance comprehension. These concepts are then applied to readers' own lives, study skills, and the world around them. Finally, Psychology integrates a cross-cultural and multicultural perspective to make psychology meaningful for everyone. For anyone interested in Introductory Psychology.

Volume 2 - Evolution of Life

Written by a team of best-selling authors, BIOLOGY: THE UNITY AND DIVERSITY OF LIFE, 14th Edition reveals the biological world in wondrous detail. Packed with eye-catching photos and images, this text shows and tells the fascinating story of life

on Earth, and engages readers with hands-on activities that encourage critical thinking. Chapter opening Learning Roadmaps help you focus on the topics that matter most and section-ending Take Home Messages reinforce key concepts. Helpful in-text features include a running glossary, case studies, issue-related essays, linked concepts, self-test questions, data analysis problems, and more. Known for a clear, accessible style, *BIOLOGY: THE UNITY AND DIVERSITY OF LIFE*, 14th Edition puts the living world of biology under a microscope for readers from all walks of life to analyze, understand, and enjoy! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Neural Network Models of Cognition

"Most comprehensive and authoritative account available of what innovation is, how it is measured, how it is developed, how it is managed, and how it affects individuals, corporations, societies and the world as a whole." - cover.

Toward Equity in Health

This essential collection presents a state-of-the-art framework for how workers in public health and related disciplines should conceptualize health disparities and how they should be addressed worldwide. The contributors, who are leading public health professionals, educators, and practitioners in complimentary fields advance new evidence-based models designed to mobilize and educate the next generation of research and practice. The resulting chapters articulate new theory, procedures, and policies; the legacy of racism; community-based participatory research; new internet technology; training community workers and educators; closing the education and health gap; and addressing the needs of special populations. *Toward Equity in Health* is an essential book for all who are working toward global health equity-whether in health education, health promotion, disease prevention, public health, the health care delivery system, or patient- and population level health.

Discovering Astronomy

Describing and understanding the evolution of the diversity of bodyplans is a major goal of evolutionary biology. Taking a modern, integrated approach to this question, a group of leading researchers describe how modern techniques and disciplines have been combined, resulting in a dramatic renaissance in the study of animal evolution.

Evolutionary Analysis

Ideal for those with a general interest in biology, this book easily draws readers into the material with lots of analogies and stories that help them readily relate biological concepts to others they are already familiar with, and by using a conversational tone that allows them to concentrate on the concepts, rather than struggling with scientific jargon. Media Labs at the end of each chapter includes Web and CD-ROM exercises.

Evidence-Based Practice Across the Health Professions

This volume brings together three areas of interest: the rule-based approach, the entrepreneur, and Japan as an empirical application. It highlights the advantages of the rule-based approach for economic analysis by linking different methodological underpinnings. Using these, the author exemplifies how rule-based economics allows a systematic analysis of the entrepreneur as the key figure in bringing about economic change and diversity. The book includes an empirical methodology for applied research in rule-based economics, which it puts to the test in an empirical study of entrepreneurship in contemporary Japan. The choice of entrepreneurship and Japan showcases the integrative power that rule-based economics brings to further breaking a theoretical deadlock and to analytically capturing a very particular economy investigated very little so far. By offering a body of new and original research, the monograph shows how the idea of entrepreneurship as a rule helps to resolve the Schumpeter-Kirzner divide and to develop an empirical approach to the determinants of entrepreneurial activity.

Middle-west School Review

Selected by the Modern Library as one of the 100 best novels of all time Published in 1975, Ragtime changed our very concept of what a novel could be. An extraordinary tapestry, Ragtime captures the spirit of America in the era between the turn of the century and the First World War. The story opens in 1906 in New Rochelle, New York, at the home of an affluent American family. One lazy Sunday afternoon, the famous escape artist Harry Houdini swerves his car into a telephone pole outside their house. And almost magically, the line between fantasy and historical fact, between real and imaginary characters, disappears. Henry Ford, Emma Goldman, J. P. Morgan, Evelyn Nesbit, Sigmund Freud, and Emiliano Zapata slip in and out of the tale, crossing paths with Doctorow's imagined family and other fictional characters, including an immigrant peddler and a ragtime musician from Harlem whose insistence on a point of justice drives him to revolutionary violence.

Mitochondrial Genome Evolution

This lively, provocative text presents a new way to understand friendship. Professor John Terrell argues that the ability to make friends is an evolved human trait not unlike our ability to walk upright on two legs or our capacity for speech and

complex abstract reasoning. Terrell charts how this trait has evolved by investigating two unique functions of the human brain: the ability to remake the outside world to suit our collective needs, and our capacity to escape into our own inner thoughts and imagine how things might and ought to be. The text is richly illustrated and written in an engaging style, and will appeal to students, scholars, and general readers interested in anthropology, evolutionary and cognitive science, and psychology more broadly.

The International Handbook on Innovation

This internationally authored volume presents major findings, concepts, and methods of behavioral neuroscience coordinated with their simulation via neural networks. A central theme is that biobehaviorally constrained simulations provide a rigorous means to explore the implications of relatively simple processes for the understanding of cognition (complex behavior). Neural networks are held to serve the same function for behavioral neuroscience as population genetics for evolutionary science. The volume is divided into six sections, each of which includes both experimental and simulation research: (1) neurodevelopment and genetic algorithms, (2) synaptic plasticity (LTP), (3) sensory/hippocampal systems, (4) motor systems, (5) plasticity in large neural systems (reinforcement learning), and (6) neural imaging and language. The volume also includes an integrated reference section and a comprehensive index.

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