

## Biology 14th May 2013 Foundation Tier

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### ROBERTSON STARK

*Heparanase* Beacon Press

Big History is a new field on a grand scale: it tells the story of the universe over time through a diverse range of disciplines that spans cosmology, physics, chemistry, astronomy, geology, evolutionary biology, anthropology, and archaeology, thereby reconciling traditional human history with environmental geography and natural history. Weaving the myriad threads of evidence-based human knowledge into a master narrative that stretches from the beginning of the universe to the present, the Big History framework helps students make sense of their studies in all disciplines by illuminating the structures that underlie the universe and the connections among them. Teaching Big History is a powerful analytic and pedagogical resource, and serves as a comprehensive guide for teaching Big History, as well for sharing ideas about the subject and planning a curriculum around it. Readers are also given helpful advice about the administrative and organizational challenges of instituting a general education program constructed around Big History. The book includes teaching materials, examples, and detailed sample exercises. This book is also an engaging first-hand account of how a group of professors built an entire Big History general education curriculum for first-year students, demonstrating how this thoughtful integration of disciplines exemplifies liberal education at its best and illustrating how teaching and learning this incredible story can be transformative for professors and students alike.

*Mandell, Douglas, and Bennett's Principles and Practice of Infectious Diseases E-Book* Penguin

People feel angry and let down by their leaders, as well as by the institutions that dominate their lives: political parties, government bureaucracy, and corporations. Yet the cause of this malaise, according to political -- advisor -- turned -- tech -- CEO Steve Hilton, is not being addressed by politicians on the left or the right. Hilton argues that much of our daily experience -- from the food we eat, to the governments we elect, to the economy on which our wealth depends, to the way we care for our health and well -- being -- has become too big, too bureaucratic, and too distant from the human scale. *More Human* sets out a radical manifesto for change, aimed at the root causes of our problems rather than just the symptoms. Whether it's using the latest advances in neuroscience to inform the fight against poverty and inequality, or applying lessons from America's most radical schools to transform our children's education, this book is an agenda for rethinking and redesigning the outdated systems and

structures of our politics, government, economy, and society to make them more suited to the way we want to live our lives today. To make them more human.

**Teaching Big History** Jones & Bartlett Publishers

A growing problem of interest in the field of science and technology policy is that the next generation of innovations is arriving at an accelerating rate, and the governance system is struggling to catch up. Current approaches and institutions for effective technology assessment are ill suited and poorly designed to proactively address the multidimensional, interconnected societal impacts of science and technology advancements that are already taking place and expected to continue over the course of the 21st century. This book offers tangible insights into the strategies deployed by well-known, high-profile organizations involved in anticipating the various societal and policy implications of nanotechnology and synthetic biology. It focuses predominantly on an examination of the practices adopted by the often-cited and uniquely positioned Project on Emerging Nanotechnologies in the United States, as well as being informed by comparisons with a range of institutions also interested in embedding forward-looking perspectives in their respective area of innovation. The book lays out one of the first actionable roadmaps that other interested stakeholders can follow when working toward institutionalizing anticipatory governance practices throughout the policymaking process.

*Anticancer Living* Oxford University Press

This innovative and student-friendly textbook provides up-to-date information on the core content of child nursing courses and helps students understand how it applies to practice. Covering all settings throughout, including the acute and community ones, it focuses on the importance of child and family centred care, by having them directly involved through the use of voices and case studies. This book provides a comprehensive framework for student knowledge development by including: Activities and theory stop-points to encourage students to develop their critical thinking skills Pointers to further reading resources, including journal articles and videos for students to explore and build knowledge more independently A range of online resources including extra scenarios for lecturers to use in their teaching and MCQs for students to revise. This is essential reading for undergraduate nursing students specialising or wanting to specialise in children and young people nursing.

*Enlightenment Now* Brazos Press

Interdisciplinarity has become a buzzword in academia, as research universities funnel their financial resources toward collaborations between faculty in different disciplines. In theory, interdisciplinary collaboration breaks down artificial divisions between different departments, allowing more innovative and

sophisticated research to flourish. But does it actually work this way in practice? Investigating Interdisciplinary Collaboration puts the common beliefs about such research to the test, using empirical data gathered by scholars from the United States, Canada, and Great Britain. The book's contributors critically interrogate the assumptions underlying the fervor for interdisciplinarity. Their attentive scholarship reveals how, for all its potential benefits, interdisciplinary collaboration is neither immune to academia's status hierarchies, nor a simple antidote to the alleged shortcomings of disciplinary study. Chapter 10 is available Open Access here

(<https://www.ncbi.nlm.nih.gov/books/NBK395883>)

*The New Wild* Stanford University Press

Current and relevant to today's students, *SOCIOLOGY IN OUR TIMES: THE ESSENTIALS*, 10th Edition presents the latest available data and new insights on behaviors, issues, and trends in our nation and world from a sociological perspective. The new edition of this bestselling text emphasizes the theme of social change and the ways in which media-particularly social media-and other forms of technology inevitably bring about new ways of living, interacting with others, or doing certain activities or task. New sections on social change have been added throughout the book, and the theme also appears in the "Sociology Works!" and "Media" features. "Sociology and Social Policy" boxes return to this edition, examining issues such as gun control, prevention of military suicides, and whether employers should be allowed to "spy" on their employees. First-person accounts of individuals' lived experiences draw students into the chapter content by illuminating topics that reflect the text's primary themes of diversity, the application of sociology to everyday life, global comparisons, media, and social change. New timely topics include environmental activism, immigration, bullying and social media, and same-sex marriage. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Gene Therapy** Routledge

Written by internationally recognized leaders in Heparanase biology, the book's eight chapters offer an opportunity for scientists, clinicians and advanced students in cell biology, tumor biology and oncology to obtain a comprehensive understanding of Heparanase's multifaceted activities in cancer, inflammation, diabetes and other diseases, as well as its related clinical applications. Proteases and their involvement in cancer progression have been well addressed and documented; however, the emerging premise presented within this book is that Heparanase is a master regulator of aggressive cancer phenotypes and crosstalk with the tumor microenvironment. This endoglycosidase contributes to tumor-mediated remodeling of the

extracellular matrix and cell surfaces, augmenting the bioavailability of pro-tumorigenic and pro-inflammatory growth factors and cytokines that are bound to Heparan sulfate. Compelling evidence ties Heparanase with all steps of tumor progression including tumor initiation, growth, angiogenesis, metastasis, and chemoresistance, supporting the notion that Heparanase is an important contributor to the poor outcome of cancer patients and a validated target for therapy. Unlike Heparanase, heparanase-2, a close homolog of Heparanase, lacks enzymatic activity, inhibits Heparanase, and regulates selected genes that promote normal differentiation and tumor suppression. Written by internationally recognized leaders in Heparanase biology, this volume presents a comprehensive understanding of Heparanase's multifaceted activities in cancer, inflammation, diabetes and other diseases, as well as its related clinical applications to scientists, clinicians and advanced students in cell biology, tumor biology and oncology.

*Molecular Biology of the Cell* Transaction Publishers

Named one of the best books of 2015 by *The Economist* A provocative exploration of the "new ecology" and why most of what we think we know about alien species is wrong For a long time, veteran environmental journalist Fred Pearce thought in stark terms about invasive species: they were the evil interlopers spoiling pristine "natural" ecosystems. Most conservationists and environmentalists share this view. But what if the traditional view of ecology is wrong—what if true environmentalists should be applauding the invaders? In *The New Wild*, Pearce goes on a journey across six continents to rediscover what conservation in the twenty-first century should be about. Pearce explores ecosystems from remote Pacific islands to the United Kingdom, from San Francisco Bay to the Great Lakes, as he digs into questionable estimates of the cost of invader species and reveals the outdated intellectual sources of our ideas about the balance of nature. Pearce acknowledges that there are horror stories about alien species disrupting ecosystems, but most of the time, the tens of thousands of introduced species usually swiftly die out or settle down and become model eco-citizens. The case for keeping out alien species, he finds, looks increasingly flawed. As Pearce argues, mainstream environmentalists are right that we need a rewilding of the earth, but they are wrong if they imagine that we can achieve that by reengineering ecosystems. Humans have changed the planet too much, and nature never goes backward. But a growing group of scientists is taking a fresh look at how species interact in the wild. According to these new ecologists, we should applaud the dynamism of alien species and the novel ecosystems they create. In an era of climate change and widespread ecological damage, it is absolutely crucial that we find ways to help nature regenerate. Embracing the new ecology, Pearce shows us, is our best chance. To be an environmentalist in the twenty-first century means celebrating nature's wildness and capacity for change. From the Hardcover edition.

**Lewis's Medical-Surgical Nursing** Bloomsbury Publishing

"The health-care revolution continues . . . an accessible, science-based approach to wellness." —Andrew Weil, MD What if we could make basic, sustainable lifestyle changes that could prevent us from getting cancer? What if those with cancer could improve their chances of living long, vibrant lives? The evidence is now clear: at least 50 percent of cancer deaths can be prevented by making healthy lifestyle changes. But many—patients and doctors included—still don't realize the simple changes we can make to increase chances of survival, or aid in the healing process for those with a diagnosis. Introducing the concept of the "Mix of Six," Lorenzo Cohen and Alison Jefferies make an informed case that by focusing on six key areas of health and wellness, you can support treatment or reduce your risk for developing cancer altogether. An accessible, prescriptive guide to wellness based on the latest scientific findings, *Anticancer Living* outlines a path to radically transform health, delay or prevent many cancers, support conventional treatments, and significantly improve quality of life. "Anticancer Living will empower millions of people with information they can use to reduce their risk of getting cancer and improve their chances of surviving a cancer diagnosis. Highly recommended!" —Dean Ornish, MD, author of *The Spectrum*

**Ivory** PublicAffairs

This fourth edition of *Racist America* is significantly revised and updated, with an eye toward racism issues arising regularly in our contemporary era. This edition incorporates many recent research studies and reports on U.S. racial issues that update and enhance the last edition's chapters. It expands the discussion and data on social science concepts such as intersectionality and gendered racism, as well as the concepts of the white racial frame, systemic racism, and the elite-white-male dominance system from research studies by Joe Feagin and his colleagues. The authors have further polished the book and added more examples, anecdotes, and narratives about contemporary racism to make it yet more readable for undergraduates. Student objectives, summaries, key terms, and study questions are available under the e-Resources tab at [www.routledge.com/9781138096042](http://www.routledge.com/9781138096042).

**Alters and Schiff Essential Concepts for Healthy Living** Penguin

INSTANT NEW YORK TIMES BESTSELLER A NEW YORK TIMES

NOTABLE BOOK OF 2018 ONE OF THE ECONOMIST'S BOOKS OF THE YEAR "My new favorite book of all time." --Bill Gates If you think the world is coming to an end, think again: people are living longer, healthier, freer, and happier lives, and while our problems are formidable, the solutions lie in the Enlightenment ideal of using reason and science. By the author of the new book, *Rationality*. Is the world really falling apart? Is the ideal of progress obsolete? In this elegant assessment of the human condition in the third millennium, cognitive scientist and public intellectual Steven Pinker urges us to step back from the gory headlines and prophecies of doom, which play to our psychological biases. Instead, follow the data: In seventy-five jaw-dropping graphs, Pinker shows that life, health, prosperity, safety, peace, knowledge, and happiness are on the rise, not just in the West, but worldwide. This progress is not the result of some cosmic force. It is a gift of the Enlightenment: the conviction that reason and science can enhance human flourishing. Far from being a naïve hope, the Enlightenment, we now know, has worked. But more than ever, it needs a vigorous defense. The Enlightenment project swims against currents of human nature--tribalism, authoritarianism, demonization, magical thinking--which demagogues are all too willing to exploit. Many commentators, committed to political, religious, or romantic ideologies, fight a rearguard action against it. The result is a corrosive fatalism and a willingness to wreck the precious institutions of liberal democracy and global cooperation. With intellectual depth and literary flair, *Enlightenment Now* makes the case for reason, science, and humanism: the ideals we need to confront our problems and continue our progress.

**When Harry Became Sally** Rutgers University Press

*Economies of Death: Economic Logics of Killable Life and Grievable Death* examines the economic logic involved in determining whose lives and deaths come to matter and why. Drawing from eight distinct case studies focused on the killability and grievability of certain humans, animals, and environmental systems, this book advances an intersectional theory of economies of death. A key feature of late-modern capitalism is its tendency to economically order certain human and nonhuman lives and environments, while appropriating and commodifying certain bodies and spaces in the process. Spanning the social sciences and humanities in its contributions and scope, each chapter shows how living beings and places are stripped down to the calculus of their end, with profound ethical and political implications for these entities and the world around them. From the genocide in Cambodia to the way some animals are considered 'pets' and others 'food'; from September 11, 2001 and Afghanistan to the politics of redemption for prisoners and ex-racehorses in Kentucky, these case studies draw from and develop an enriched understanding of bio- and necropolitics, posthumanism, killability and grievability. In drawing together the objectification of humans, animals and environments (and the power-laden hierarchies that maintain this objectification), this volume highlights how death across these subjects informs and responds to broader geo-economic processes. This book aims to examine the reach of economies of death across such diverse subjects, challenging readers to consider the every-day calculus they make in determining whose lives mean more and why.

**Human Values and Biodiversity Conservation** Routledge

At a time of social, political, and economic shifts across the world, India is faced with the pivotal challenge of addressing the state of its universities. In a region that was home to the leading higher learning institutions during ancient times, the descent in the quality of higher education offered by modern India's universities is yet to create the desired impact. To be effective, universities will need to create institutional ecosystems that are reflective of the complex and interconnected worlds their graduates will live in. India's extraordinary demographic profile creates a compelling need for its universities to reimagine their roles. The contributors in this volume argue for fundamental reforms to bring about a renewed sense of purpose. The chapters are authored by leading scholars in the fields of law, management, educational theory, liberal arts, international relations, and science and technology, and reflect the multiple approaches necessary to address the most difficult challenges in our times. The volume provides international and comparative perspectives on higher education, and will be immensely useful in highlighting issues being faced by Indian universities.

**Wild Life** CSHL Press

*Essential Concepts for Healthy Living*, Seventh Edition urges students to think critically about their health and overall wellness and empowers them, with clearly identified tools, to help them reach this goal. It provides a clear and concise introduction to the latest scientific and medical research in personal health and highlights common behaviors and attitudes related to individual health needs. The Seventh Edition, with an all new author team, includes a wealth of new and updated data, including modern information on violence and abuse, relationships and sexuality, and physical fitness.

**The Future of Indian Universities** Xlibris Corporation

*Wild Life* documents a nuanced understanding of the wild versus captive divide in species conservation. It also documents the emerging understanding that all forms of wild nature—both in situ

(on-site) and ex situ (in captivity)—may need to be managed in perpetuity. Providing a unique window into the high-stakes world of nature conservation, Irus Braverman describes the heroic efforts by conservationists to save wild life. Yet in the shadows of such dedication and persistence in saving the life of species, *Wild Life* also finds sacrifice and death. Such life and death stories outline the modern struggle to define what conservation should look like at a time when the long-established definitions of nature have collapsed. *Wild Life* begins with the plight of a tiny endangered snail, and ends with the rehabilitation of an entire island. Interwoven between its pages are stories about golden lion tamarins in Brazil, black-footed ferrets in the American Plains, Sumatran rhinos in Indonesia, Tasmanian devils in Australia, and many more creatures both human and nonhuman. Braverman draws on interviews with more than one hundred and twenty conservation biologists, zoologists, zoo professionals, government officials, and wildlife managers to explore the various perspectives on in situ and ex situ conservation and the blurring of the lines between them.

**Animal Biology and Care** Springer Science & Business Media

After thirty five years, Mandell, Douglas, and Bennett's *Principles and Practice of Infectious Diseases*, 8th Edition is still the reference of choice for comprehensive, global guidance on diagnosing and treating the most challenging infectious diseases. Drs. John E. Bennett and Raphael Dolin along with new editorial team member Dr. Martin Blaser have meticulously updated this latest edition to save you time and to ensure you have the latest clinical and scientific knowledge at your fingertips. With new chapters, expanded and updated coverage, increased worldwide perspectives, and many new contributors, Mandell, Douglas, and Bennett's *Principles and Practice of Infectious Diseases*, 8th Edition helps you identify and treat whatever infectious disease you see. Get the answers to any questions you have with more in-depth coverage of epidemiology, etiology, pathology, microbiology, immunology, and treatment of infectious agents than you'll find in any other ID resource. Apply the latest knowledge with updated diagnoses and treatments for currently recognized and newly emerging infectious diseases, such as those caused by avian and swine influenza viruses. Put the latest knowledge to work in your practice with new or completely revised chapters on Influenza (new pandemic strains); New Middle East Respiratory Syndrome (MERS) Virus; Probiotics; Antibiotics for resistant bacteria; Antifungal drugs; New Antivirals for hepatitis B and C; Clostridium difficile treatment; Sepsis; Advances in HIV prevention and treatment; Viral gastroenteritis; Lyme Disease; Helicobacter pylori; Malaria; Infections in immunocompromised hosts; Immunization (new vaccines and new recommendations); and Microbiome. Benefit from fresh perspectives and expanded global insights from an expanded team of American and International contributors. Martin Blaser, MD, a leading expert and Muriel G. and George W. Singer Professional of Translational Medicine at New York University School of Medicine, joins veteran PPID editors John E. Bennett, MD, and Raphael Dolin, MD to continue a legacy of excellence. Find and grasp the information you need easily and rapidly with newly added chapter summaries.

**Essentials of Glycobiology** Cengage Learning

Despite sustained debate and progress the evolving thing that is evidence based nursing or practice (EBP) continues to dangle a variety of conceptual and practical loose threads. Moreover, when we think about what is being asked of students and registered or licenced practitioners in terms of EBP, it is difficult not to concede that this 'ask' is in many instances quite large and, occasionally, it may be unachievable. EBP has and continues to improve patient, client and user care. Yet significant questions concerning its most basic elements remain unresolved and, if nurses are to contribute to the resolution or reconfiguration of these questions then, as a first step, we must acknowledge their existence. From a range of international standpoints and perspectives, contributors to this book focus on aspects of EBP that require development. This focus is always robust and at times it is unashamedly provocative. Contributors challenge readers to engage with anomalies that surround the subject and readers are asked to consider the often precarious assumptions that underpin key aspects of EBP. While both conflict and concord are evident among the various offerings presented here, the book nonetheless creates and sustains a narrative that is bigger or more substantial than the sum of individual parts. And, across contributions, a self-assuredly critical stance towards EBP as currently practiced, conceptualized and taught coexists alongside respectful admiration for all who make it happen. Exploring Evidence-based Practice: Debates and Challenges in Nursing should be considered essential reading for academics and postgraduate students with an interest in evidence-based practice and nursing research.

**Nanotherapeutics in Cancer Vaccination and Challenges** Academic Press

Microbial mat communities consist of dense populations of microorganisms embedded in exopolymers and/or biomineralized solid phases, and are often found in mm-cm thick assemblages, which can be stratified due to environmental gradients such as light, oxygen or sulfide. Microbial mat communities are commonly observed under extreme environmental conditions, deriving

energy primarily from light and/or reduced chemicals to drive autotrophic fixation of carbon dioxide. Microbial mat ecosystems are regarded as living analogues of primordial systems on Earth, and they often form perennial structures with conspicuous stratifications of microbial populations that can be studied in situ under stable conditions for many years. Consequently, microbial mat communities are ideal natural laboratories and represent excellent model systems for studying microbial community structure and function, microbial dynamics and interactions, and discovery of new microorganisms with novel metabolic pathways potentially useful in future industrial and/or medical applications. Due to their relative simplicity and organization, microbial mat communities are often excellent testing grounds for new technologies in microbiology including micro-sensor analysis, stable isotope methodology and modern genomics. Integrative studies of microbial mat communities that combine modern biogeochemical and molecular biological methods with traditional microbiology, macro-ecological approaches, and community network modeling will provide new and detailed insights regarding the systems biology of microbial mats and the complex interplay among individual populations and their physicochemical environment. These processes ultimately control the biogeochemical cycling of energy and/or nutrients in microbial systems. Similarities in microbial community function across different types of communities from highly disparate environments may provide a deeper basis for understanding

microbial community dynamics and the ecological role of specific microbial populations. Approaches and concepts developed in highly-constrained, relatively stable natural communities may also provide insights useful for studying and understanding more complex microbial communities.

**Sex, Family, and the Culture Wars** Oxford University Press  
**Nanotherapeutics in Cancer Vaccination and Challenges** consolidates the current research on cancer nanomedicine and therapeutic cancer vaccination to explore the most effective and promising avenues. The book covers cancer vaccines before exploring nanotherapeutics, DNA and mRNA vaccines in cancer treatment. Finally, it considers regulatory and industrial perspectives on cancer vaccination and nanotherapeutics. This resource will be useful for pharmaceutical scientists and researchers focused on biomedical engineering, chemical engineering, vaccine development, and cancer immunotherapy, along with advanced students in these subjects. Cancer is arguably the most complex and challenging disease known to mankind. Over the last two-decades, significant advancements have been made in new and novel concepts of cancer nanomedicines. Therapeutic cancer vaccines may be utilized to inhibit further growth of advanced cancers and/or relapsed tumors that are refractory to conventional therapies, such as surgery, radiation therapy and chemotherapy. Presents the progress made in cancer medicines from conventional to targeted therapy Covers the present state-of-the-art of cancer

nanomedicines and upcoming therapeutic cancer vaccination  
 Contains a focus on advanced nanomaterials that are utilized for encapsulation of nucleic acid, mRNA, DNA, siRNA  
*Investigating Interdisciplinary Collaboration* Univ of California Press

Half of Tanzania's elephants have been killed for their ivory since 2007. A similar alarming story can be told of the herds in northern Mozambique and across swathes of central Africa, with forest elephants losing almost two-thirds of their numbers to the tusk trade. The huge rise in poaching and ivory smuggling in the new millennium has destroyed the hope that the 1989 ivory trade ban had capped poaching and would lead to a long-term fall in demand. But why the new upsurge? The answer is not simple. Since ancient times, large-scale killing of elephants for their tusks has been driven by demand outside Africa's elephant ranges - from the Egyptian pharaohs through Imperial Rome and industrialising Europe and North America to the new wealthy business class of China. And, who poaches and why do they do it? In recent years lurid press reports have blamed mass poaching on rebel movements and armed militias, especially Somalia's Al Shabaab, tying two together two evils - poaching and terrorism. But does this account stand up to scrutiny? This new and ground-breaking examination of the history and politics of ivory in Africa forensically examines why poaching happens in Africa and why it is corruption, crime and politics, rather than insurgency, that we should worry about.