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Concepts of Biology Synthetic Biology Science Biology Issues in Life Sciences—Cellular Biology: 2013 Edition 13+ Science Level 2 Biology Mark Scheme (Summer Term 2013) Science Biology Issues in Life Sciences—Molecular Biology: 2013 Edition Research Methods in Human Skeletal Biology 13+ Science Level 2 Biology Mark Scheme (Spring Term 2013) Science Biology Science Biology Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition Citizen Science Outsider Scientists Buddhist Biology Biology 2e Issues in Anatomy, Physiology, Metabolism, Morphology, and Human Biology: 2013 Edition Polyoxometalates in Catalysis, Biology, Energy and Materials Science 13+ Science Level 2 Biology (Summer Term 2013) 13+ Science Level 2 Biology Mark Scheme (Autumn Term 2013) Biological Individuality Encyclopedia of Evolutionary Biology Philosophy of Science for Biologists 50 Years Faculty of Biology (1963-2013) Utopian Literature and Science Computational Modeling: From Chemistry To Materials To Biology - Proceedings Of The 25th Solvay Conference On Chemistry The Handbook of Peer Production Big Data Is Not a Monolith STEM Integration in K-12 Education Terrestrial Ecosystem Research Infrastructures Cancer and its Management The Great Mistake Handbook of Systems Biology The Biology of Cancer Regeneration Planetary Astrobiology Quantitative Biology Molecular Biology - Not Only for Bioinformaticians Plant Abiotic Stress Physiology Is There Purpose in Biology?

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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. Chaired by K Wüthrich (Nobel Laureate in Chemistry, 2002) and co-chaired by B Weckhuysen, this by-invitation-only conference has gathered 39 participants — who are leaders in the field of computational modeling and its applications in Chemistry, Material Sciences and Biology. Highlights of the Conference Proceedings are short, prepared statements by all the participants and the records of lively discussions on the current and future perspectives in the field of computational modeling, from chemistry to materials to biology. The editors of this book have a straightforward goal: to inspire you to engage your students through public collaboration in scientific research--also known as citizen science. The book is specifically designed to get you comfortable using citizen science to support independent inquiry through which your students can learn both content and process skills. Citizen Science offers you: Real-life case studies of classes that engaged in citizen science and learned authentic scientific processes and the habits of mind associated with scientific reasoning. Fifteen stimulating lessons you can use to build data collection and analysis into your teaching. Plenty of flexibility. You can use the lessons with or without access to field or lab facilities; whether or not your students can collect and submit data of their own; and inside your classroom or outside through fieldwork in schoolyards, parks, or other natural areas in urban or rural settings. You don't need an advanced degree in science to guide your students in productive participation in one of a growing variety of citizen science projects. As the editors note, "Such involvement can scaffold teachers' entry into facilitating student investigation while connecting students with relevant, meaningful, and real experiences with science." This two-volume set highlights the various innovative and emerging techniques and molecular applications that are currently being used in plant abiotic stress physiology. Volume 1: Responses and Adaptations focuses on the responses and adaptations of plants to stress factors at the cellular and molecular levels and offers a variety of advanced management strategies and technologies. Volume 2: Molecular Advancements introduces a range of state-of-the-art molecular advances for the mitigation of abiotic stress in plants. With contributions from specialists in the field, Volume 1 first discusses the physiology and defense mechanisms of plants and the various kinds of stress, such as from challenging environments, climate change, and nutritional deficiencies. It goes on to discuss trailblazing management techniques that include genetics approaches for improving abiotic stress tolerance in crop plants along with CRISPR/CAS-mediated genome editing technologies. Volume 2 discusses how plants have developed diverse physiological and molecular adjustments to safeguard themselves under challenging conditions and how emerging new technologies can utilize these plant adaptations to enhance plant resistance. These include using plant-environment interactions to develop crop species that are resilient to climate change, applying genomics and phenomics approaches from the study of abiotic stress tolerance and more. Agriculture today faces countless challenges to meet the rising need for sustainable food supplies and guarantees of high-quality nourishment for a quickly increasing population. To ensure sufficient food production, it is necessary to address the difficult environmental circumstances that are causing cellular oxidative stress in plants due to abiotic factors, which play a defining role in shaping yield of crop plants. These two volumes help to meet these challenges by providing a rich source of information on plant abiotic stress physiology and effective management techniques. Encyclopedia of Evolutionary Biology is the definitive go-to reference in the field of evolutionary biology. It provides a fully comprehensive review of the field in an easy to search structure. Under the collective leadership of fifteen distinguished section editors, it is comprised of articles written by leading experts in the field, providing a full review of the current status of each topic. The articles are up-to-date and fully illustrated with in-text references that allow readers to easily access primary literature. While all entries are authoritative and valuable to those with advanced understanding of evolutionary biology, they are also intended to be accessible to both advanced undergraduate and graduate students. Broad topics include the history of evolutionary biology, population genetics, quantitative genetics; speciation, life history evolution, evolution of sex and mating systems, evolutionary biogeography, evolutionary developmental biology, molecular and genome evolution, coevolution, phylogenetic methods, microbial evolution, diversification of plants and fungi, diversification of animals, and applied evolution. Presents fully comprehensive content, allowing easy access to fundamental information and links to primary research. Contains concise articles by leading experts in the field that ensures current coverage of each topic. Provides ancillary learning tools like tables, illustrations, and multimedia features to assist with the comprehension process. Bioinformatics, which can be defined as the application of computer science and information technology to the field of biology and medicine, has been rapidly developing over the past few decades. It generates new knowledge as well as the computational tools to create that knowledge. Understanding the basic processes in living organisms is therefore indispensable for bioinformaticians. This book addresses beginners in molecular biology, especially computer scientists who would like to work as bioinformaticians. It presents basic processes in living organisms in a condensed manner. Additionally, principles of several high-throughput technologies in molecular biology, which need the assistance of bioinformaticians, are explained from a biological point of view. It is structured in the following 9 chapters: cells and viruses; protein structure and function; nucleic acids; DNA replication, mutations, and repair; transcription and posttranscriptional processes; synthesis and posttranslational modifications of proteins; cell division; cell signaling pathways; and high-throughput technologies in molecular biology. Perspectives on the varied challenges posed by big data for health, science, law, commerce, and politics. Big data is ubiquitous but heterogeneous. Big data can be used to tally clicks and traffic on web pages, find patterns in stock trades, track consumer preferences, identify linguistic correlations in large corpuses of texts. This book examines big data not as an undifferentiated whole but contextually, investigating the varied challenges posed by big data for health, science, law, commerce, and politics. Taken together, the chapters reveal a complex set of problems, practices, and policies. The advent of big data methodologies has challenged the theory-driven approach to scientific knowledge in favor of a data-driven one. Social media platforms and self-tracking tools change the way we see ourselves and others. The collection of data by corporations and government threatens privacy while promoting transparency. Meanwhile, politicians, policy makers, and ethicists are ill-prepared to deal with big data's ramifications. The contributors look at big data's effect on individuals as it exerts social control through monitoring, mining, and manipulation; big data and society, examining both its empowering and its constraining effects; big data and science, considering issues of data governance, provenance, reuse, and trust; and big data and organizations, discussing data responsibility, "data harm," and decision making. Contributors Ryan Abbott, Cristina Alaimo, Kent R. Anderson, Mark Andrejevic, Diane E. Bailey, Mike Bailey, Mark Burdon, Fred H. Cate, Jorge L. Contreras, Simon DeDeo, Hamid R. Ekbia, Allison Goodwell, Jannis Kallinikos, Inna Kouper, M. Lynne Markus, Michael Mattioli, Paul Ohm, Scott Peppet, Beth Plale, Jason Portenoy, Julie Rennecker, Katie Shilton, Dan Sholler, Cassidy R. Sugimoto, Isuru Suriarachchi, Jevin D. West. STEM Integration in K-12 Education examines current efforts to connect the STEM disciplines in K-12 education. This report identifies and characterizes existing approaches to integrated STEM education, both in formal and after- and out-of-school settings. The report reviews the evidence for the impact of integrated approaches on various student outcomes, and it proposes a set of priority research questions to advance the understanding of integrated STEM education. STEM Integration in K-12 Education proposes a framework to provide a common perspective and vocabulary for researchers, practitioners, and others to identify, discuss, and investigate specific integrated STEM initiatives within the K-12 education system of the United States. STEM Integration in K-12 Education makes recommendations for designers of integrated STEM experiences, assessment developers, and researchers to design and document effective integrated STEM education. This report will help to further their work and improve the chances that some forms of integrated STEM education will make a positive difference in student learning and interest and other valued outcomes. Issues in Anatomy, Physiology, Metabolism, Morphology, and Human Biology: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Sociobiology. The editors have built Issues in Anatomy, Physiology, Metabolism, Morphology, and Human Biology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Sociobiology in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Anatomy, Physiology, Metabolism, Morphology, and Human Biology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Chemoreception. The editors have built Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Chemoreception in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences—Botany and Plant Biology Research: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Are we alone in the universe? How did life arise on our planet? How do we search for life beyond Earth? These profound questions excite and intrigue broad cross sections of science and society. Answering these questions is the province of the emerging, strongly interdisciplinary field of astrobiology. Life is inextricably tied to the formation, chemistry, and evolution of its host world, and multidisciplinary studies of solar system worlds can provide key insights into processes that govern planetary habitability, informing the search for life in our solar system and beyond. Planetary Astrobiology brings together current knowledge across astronomy, biology, geology, physics, chemistry, and related fields, and considers the synergies between studies of solar systems and exoplanets to identify the path needed to advance the exploration of these profound questions. Planetary Astrobiology represents the combined efforts of more than seventy-five international experts consolidated into twenty chapters and provides an accessible, interdisciplinary gateway for new students and seasoned researchers who wish to learn more about this expanding field. Readers are brought to the frontiers of knowledge in astrobiology via results from the exploration of our own solar system and exoplanetary systems. The overarching goal of Planetary Astrobiology is to enhance and broaden the development of an interdisciplinary approach across the astrobiology, planetary science, and exoplanet communities, enabling a new era of comparative planetology that encompasses conditions and processes for the emergence, evolution, and detection of life. The definitive reference work with comprehensive analysis and review of peer production. Peer production is no longer the sole domain of small groups of technical or academic elites. The internet has enabled millions of people to collectively produce, revise, and distribute everything from computer operating systems and applications to encyclopedia articles and film and television databases. Today, peer production has branched out to include wireless networks, online currencies, biohacking, and peer-to-peer urbanism, amongst others. The Handbook of Peer Production outlines central concepts, examines current and emerging areas of application, and analyzes the forms and principles of cooperation that continue to impact multiple areas of production and sociality. Featuring contributions from an international team of experts in the field, this landmark work maps the origins and manifestations of peer production, discusses the factors and conditions that are enabling, advancing, and co-opting peer production, and considers its current impact and potential consequences for the social order. Detailed chapters address the governance, political economy, and cultures of peer production, user motivations, social rules and norms, the role of peer production in social change and activism, and much more. Filling a gap in available literature as the only extensive overview of peer production's modes of generating informational goods and services, this groundbreaking volume: Offers accessible, up-to-date information to both specialists and non-specialists across academia, industry, journalism, and public advocacy. Includes interviews with leading practitioners discussing the future of peer production. Discusses the history, traditions, key debates, and pioneers of peer production. Explores technologies for peer production, openness and licensing, peer learning, open design and manufacturing, and free and open-source software. The Handbook of Peer Production is an indispensable resource for students, instructors, researchers, and professionals working in fields including communication studies, science and technology studies, sociology, and management studies, as well as those interested in the network information economy, the public domain, and new forms of organization and networking. A short and accessible introduction to philosophy of science for students and researchers across the life sciences. Synthetic Biology provides a framework to examine key enabling components in the emerging area of synthetic biology. Chapters contributed by leaders in the field address tools and methodologies developed for engineering biological systems at many levels, including molecular, pathway, network, whole cell, and multi-cell levels. The book highlights exciting practical applications of synthetic biology such as microbial production of biofuels and drugs, artificial cells, synthetic viruses, and artificial photosynthesis. The roles of computers and computational design are discussed, as well as future prospects in the field, including cell-free synthetic biology and engineering synthetic ecosystems. Synthetic biology is the design and construction of new biological entities, such as enzymes, genetic circuits, and cells, or the redesign of existing biological systems. It builds on the advances in molecular, cell, and systems biology and seeks to transform biology in the same way that synthesis transformed chemistry and integrated circuit design transformed computing. The element that distinguishes synthetic biology from traditional molecular and cellular biology is the focus on the design and construction of core components that can be modeled, understood, and tuned to

meet specific performance criteria and the assembly of these smaller parts and devices into larger integrated systems that solve specific biotechnology problems. Includes contributions from leaders in the field presents examples of ambitious synthetic biology efforts including creation of artificial cells from scratch, cell-free synthesis of chemicals, fuels, and proteins, engineering of artificial photosynthesis for biofuels production, and creation of unnatural living organisms Describes the latest state-of-the-art tools developed for low-cost synthesis of ever-increasing sizes of DNA and efficient modification of proteins, pathways, and genomes Highlights key technologies for analyzing biological systems at the genomic, proteomic, and metabolomic levels which are especially valuable in pathway, whole cell, and multi-cell applications Details mathematical modeling tools and computational tools which can dramatically increase the speed of the design process as well as reduce the cost of development. Incorporating the most important advances in the fast-growing field of cancer biology, the text maintains all of its hallmark features. It is admired by students, instructors, researchers, and clinicians around the world for its clear writing, extensive full-color art program, and numerous pedagogical features. This book provides an entry point into Systems Biology for researchers in genetics, molecular biology, cell biology, microbiology and biomedical science to understand the key concepts to expanding their work. Chapters organized around broader themes of Organelles and Organisms, Systems Properties of Biological Processes, Cellular Networks, and Systems Biology and Disease discuss the development of concepts, the current applications, and the future prospects. Emphasis is placed on concepts and insights into the multi-disciplinary nature of the field as well as the importance of systems biology in human biological research. Technology, being an extremely important aspect of scientific progress overall, and in the creation of new fields in particular, is discussed in 'boxes' within each chapter to relate to appropriate topics. 2013 Honorable Mention for Single Volume Reference in Science from the Association of American Publishers' PROSE Awards Emphasizes the interdisciplinary nature of systems biology with contributions from leaders in a variety of disciplines Includes the latest research developments in human and animal models to assist with translational research Presents biological and computational aspects of the science side-by-side to facilitate collaboration between computational and biological researchers Atheists assert that the natural world has no meaning or purpose. Dr Denis Alexander, Emeritus Director of The Faraday Institute for Science and Religion at St. Edmunds College, Cambridge, draws a different conclusion. Not only do recent evolutionary biological data appear inconsistent with the claim that the world is purposeless, but the Christian doctrine of creation has provided and continues to provide both context and stimulus for the study of the natural world. Christians started biology! However, is a belief in an omnipotent, benign Creator consistent with a world of pain and suffering? From a lifetime's study in the biological sciences, Denis Alexander believes that whilst the cost of existence is extremely high, it can nonetheless be squared with the idea of a God of love whose ultimate purposes for humankind render that cost more comprehensible. "Bold and provocative... Regenesi s tells of recent advances that may soon yield endless supplies of renewable energy, increased longevity and the return of long-extinct species."—New Scientist In Regenesi s, Harvard biologist George Church and science writer Ed Regis explore the possibilities—and perils—of the emerging field of synthetic biology. Synthetic biology, in which living organisms are selectively altered by modifying substantial portions of their genomes, allows for the creation of entirely new species of organisms. These technologies—far from the out-of-control nightmare depicted in science fiction—have the power to improve human and animal health, increase our intelligence, enhance our memory, and even extend our life span. A breathtaking look at the potential of this world-changing technology, Regenesi s is nothing less than a guide to the future of life. Terrestrial Ecosystem Research Infrastructures: Challenges and Opportunities reveals how environmental research infrastructures (RIs) provide new valuable insights on ecological processes that cannot be realized by more traditional short-term funding cycles and are integral to understand our changing world. This book bonds the latest state-of-the-science knowledge on environmental RIs, the challenges in creating them, their place in addressing scientific frontiers, and the new perspectives they bear. Each chapter is thoughtfully invested with fresh viewpoints from the environmental RI vantage as the authors explore and explain many topics such as the rationale and challenges in global change, field and modeling platforms, new tools, challenges in data management, distilling information into knowledge, and new developments in large-scale RIs. This work serves an advantageous guide for academics and practitioners alike who aim to deepen their knowledge in the field of science and project management, and logistics operations. Compares teachings of Buddhism with principles of modern biology, revealing many significant points of compatibility. An introduction to the quantitative modeling of biological processes, presenting modeling approaches, methodology, practical algorithms, software tools, and examples of current research. The quantitative modeling of biological processes promises to expand biological research from a science of observation and discovery to one of rigorous prediction and quantitative analysis. The rapidly growing field of quantitative biology seeks to use biology's emerging technological and computational capabilities to model biological processes. This textbook offers an introduction to the theory, methods, and tools of quantitative biology. The book first introduces the foundations of biological modeling, focusing on some of the most widely used formalisms. It then presents essential methodology for model-guided analyses of biological data, covering such methods as network reconstruction, uncertainty quantification, and experimental design; practical algorithms and software packages for modeling biological systems; and specific examples of current quantitative biology research and related specialized methods. Most chapters offer problems, progressing from simple to complex, that test the reader's mastery of such key techniques as deterministic and stochastic simulations and data analysis. Many chapters include snippets of code that can be used to recreate analyses and generate figures related to the text. Examples are presented in the three popular computing languages: Matlab, R, and Python. A variety of online resources supplement the text. The editors are long-time organizers of the Annual q-bio Summer School, which was founded in 2007. Through the school, the editors have helped to train more than 400 visiting students in Los Alamos, NM, Santa Fe, NM, San Diego, CA, Albuquerque, NM, and Fort Collins, CO. This book is inspired by the school's curricula, and most of the contributors have participated in the school as students, lecturers, or both. Contributors John H. Abel, Roberto Bertolusso, Daniela Besozzi, Michael L. Blinov, Clive G. Bowsher, Fiona A. Chandra, Paolo Cazzaniga, Bryan C. Daniels, Bernie J. Daigle, Jr., Maciej Dobrzynski, Jonathan P. Doye, Brian Drawert, Sean Fancer, Gareth W. Fearnley, Dirk Fey, Zachary Fox, Ramon Grima, Andreas Hellander, Stefan Hellander, David Hofmann, Damian Hernandez, William S. Hlavacek, Jianjun Huang, Tomasz Jetka, Dongya Jia, Mohit Kumar Jolly, Boris N. Kholodenko, Markek Kimmel, Micha? Komorowski, Ganhui Lan, Heeseob Lee, Herbert Levine, Leslie M Loew, Jason G. Lomnitz, Ard A. Louis, Grant Lythe, Carmen Molina-Paris, Ion I. Moraru, Andrew Mugler, Brian Munsky, Joe Natale, Ilya Nemenman, Karol Niena?owski, Marco S. Nobile, Maria Nowicka, Sarah Olson, Alan S. Perelson, Linda R. Petzold, Sreenivasan Ponnambalam, Arya Pourzanjani, Ruy M. Ribeiro, William Raymond, William Raymond, Herbert M. Sauro, Michael A. Savageau, Abhyudai Singh, James C. Schaff, Boris M. Slepchenko, Thomas R. Sokolowski, Petr Šulc, Andrea Tangherloni, Pieter Rein ten Wolde, Philipp Thomas, Karen Tkach Tuzman, Lev S. Tsimring, Dan Vasilescu, Margaritis Voliotis, Lisa Weber Now in its seventh edition, this highly-regarded book is designed as an introductory and reference text on the principles of diagnosis, staging, and treatment of tumors. As for the last 6 editions of the book, the aim and scope of the new edition are once again to provide a thorough yet reasonably brief account of the whole field of oncology, focusing on the latest principles of cancer management. The book is already well established, having been first published in 1986 and in continuous print since then. The authors are rightfully proud of their strong legacy of providing carefully revised new editions of this standard and well-received cancer text for audiences in the UK and abroad. Oncology is a very rapidly changing speciality, with many new treatments and even treatment modalities coming on stream with bewildering speed. Besides a thorough general updating of the text, figures, and tables, the new seventh edition adds a new chapter on Molecular Targeted Therapy, making the book 30 chapters in total. This accessible and practical resource is invaluable to trainees and specialists alike in oncology, palliative care and general medicine, as well as specialist nurses, general practitioners, medical students, and professions allied to medicine. Issues in Life Sciences—Molecular Biology / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Macromolecular Bioscience. The editors have built Issues in Life Sciences—Molecular Biology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Macromolecular Bioscience in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences—Molecular Biology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Introduction: working together on individuality / Lynn K. Nyhart and Scott Lidgard -- The work of biological individuality: concepts and contexts / Scott Lidgard and Lynn K. Nyhart -- Cells, colonies, and clones: individuality in the volvocine algae / Matthew D. Herron -- Individuality and the control of life cycles / Beckett Sterner -- Discovering the ties that bind: cell-cell communication and the development of cell sociology / Andrew S. Reynolds -- Alternation of generations and individuality, 1851 / Lynn K. Nyhart and Scott Lidgard -- Spencer's evolutionary entanglement: from liminal individuals to implicit collectivities / Snaith Gissis -- Biological individuality and enkapsis: from Martin Heidenhain's synthesiology to the völkisch national community / Olivier Rieppel -- Parasitology, zoology, and society in France, ca. 1880-1920 / Michael A. Osborne -- Metabolism, autonomy, and individuality / Hannah Landecker -- Bodily parts in the structure-function dialectic / Ingo Brigandt -- Commentaries: historical, biological, and philosophical perspectives -- Distrust that particular intuition: resilient essentialisms and empirical challenges in the history of biological individuality / James Elwick -- Biological individuality: a relational reading / Scott F. Gilbert -- Philosophical dimensions of individuality / Alan C. Love and Ingo Brigandt Scientific progress is usually seen as a precondition of modern utopias, but science and utopia are frequently at odds. Ranging from Galileo's observations with the telescope to current ideas of the post-human and the human-animal boundary, this study brings a fresh perspective to the paradoxes of utopian thinking since Plato. A powerful, hopeful critique of the unnecessary death spiral of higher education, The Great Mistake is essential reading for those who wonder why students have been paying more to get less and for everyone who cares about the role the higher education system plays in improving the lives of average Americans.--Helen Small, author of The Value of the Humanities "Los Angeles Review of Books" Issues in Life Sciences—Cellular Biology / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Cells and Materials. The editors have built Issues in Life Sciences—Cellular Biology: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Cells and Materials in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Life Sciences—Cellular Biology: 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>. Research Methods in Human Skeletal Biology serves as the one location readers can go to not only learn how to conduct research in general, but how research is specifically conducted within human skeletal biology. It outlines the current types of research being conducted within each sub-specialty of skeletal biology, and gives the reader the tools to set up a research project in skeletal biology. It also suggests several ideas for potential projects. Each chapter has an inclusive bibliography, which can serve as a good jumpstart for project references. Provides a step-by-step guide to conducting research in human skeletal biology Covers diverse topics (sexing, aging, stature and ancestry estimation) and new technologies (histology, medical imaging, and geometric morphometrics) Excellent accompaniment to existing forensic anthropology or osteology works Outsider Scientists describes the transformative role played by "outsiders" in the growth of the modern life sciences. Biology, which occupies a special place between the exact and human sciences, has historically attracted many thinkers whose primary training was in other fields: mathematics, physics, chemistry, linguistics, philosophy, history, anthropology, engineering, and even literature. These outsiders brought with them ideas and tools that were foreign to biology, but which, when applied to biological problems, helped to bring about dramatic, and often surprising, breakthroughs. This volume brings together eighteen thought-provoking biographical essays of some of the most remarkable outsiders of the modern era, each written by an authority in the respective field. From Noam Chomsky using linguistics to answer questions about brain architecture, to Erwin Schrödinger contemplating DNA as a physicist would, to Drew Endy tinkering with Biobricks to create new forms of synthetic life, the outsiders featured here make clear just how much there is to gain from disrespecting conventional boundaries. Innovation, it turns out, often relies on importing new ideas from other fields. Without its outsiders, modern biology would hardly be recognizable.

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