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Benjamin D. Trump, Christopher L. Cummings, Jennifer Kuzma, Igor Linkov, 2019-11-28 Synthetic biology offers powerful remedies for some of the world's most intractable problems, but these solutions are clouded by uncertainty and risk that few strategies are available to address. The incentives for continued development of this emerging technology are prodigious and obvious, and the public deserves assurances that all potential downsides are duly considered and minimized accordingly. Incorporating social science analysis within the innovation process may impose constraints, but its simultaneous support in making the end products more acceptable to society at large should be considered a worthy trade-off. Contributing authors in this volume represent diverse perspectives related to synthetic biology's social sciences, and reflect on different areas of risk analysis and governance that have developed for the field. Such perspectives include leading scholarly discussion pertaining to risk assessment, governance, ethics, and communication. The chapters of this volume note that while the first twenty years of synthetic biology development have focused strongly on technological innovation and product development, the next twenty should emphasize the synergy between developers, policymakers, and publics to generate the most beneficial, well governed, and transparent technologies and products possible. Many chapters in this volume provide new data and approaches that demonstrate the feasibility for multi-stakeholder efforts involving policymakers, regulators, industrial developers, workers, experts, and societal representatives to share responsibilities in the production of effective and acceptable governance in the face of uncertain risk probabilities. A full consideration of such perspectives may prevent a world of draconian regulations based on an insufficient or incomplete understanding of the science that underpins synthetic biology, as well as any hesitancy or fear by the public to adopt its eventual products.

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Karakuş, Sonali Sundram, Sathvik Belagodu Sridhar, 2025-09-10 This book explores the advanced integration of nanotechnology and biomedicine, providing an in-depth analysis of the transformative impact of carbon nanotubes (CNTs) on healthcare. It provides a comprehensive coverage of the distinctive characteristics of CNTs, including their remarkable mechanical strength, electrical conductivity, and large surface area, which make them very suitable for numerous biomedical uses. The book provides an overview of the process of synthesizing and functionalizing CNTs. It then delves into the specific applications of CNTs in drug delivery systems to improve the effectiveness and targeting of therapeutic agents. Additionally, the book explores the use of CNTs in imaging and diagnostics, enhancing techniques such as MRI and fluorescence imaging. The book also discusses the involvement of CNTs in tissue engineering, namely in the fabrication of scaffolds that facilitate cell growth and tissue regeneration. It explores the application of CNTs in biosensors, where their high sensitivity enables early and accurate identification of diseases. Antibacterial characteristics of CNTs are reviewed in order to hinder infections in medical devices and implants. The potential of CNTs in gene therapy to enhance genetic treatments is also explored in the book. It addresses the concerns related to the toxicity, biocompatibility, and regulatory issues of CNTs. It carefully balances the promising potential of CNTs with the practical implications of their usage in the field of biomedicine. This book is indispensable for researchers, doctors, and individuals with an interest in the cutting-edge utilisation of nanotechnology in the field of medicine.

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Décosard articulates the first theory of evolution since Darwin. By his own account, he stumbled upon his proposed mechanism of eukaryogenesis using a process worthy of the three princes of Serendip. From there, he succeeded in establishing a comprehensive theory of life and the universe. For instance, we learn that a new paradigm, called "the seeds-first theory," explains biodiversity

among eukaryotic species, such as those of plants and animals. It is interesting to discover what contributions, if any, the theory of natural selection provided to the new model. Nevertheless, the modern version of Darwinism, or neo-Darwinism, has long been engaged in a major antagonism with the theory of Intelligent Design (ID), which holds that the living world emanated from the conscious choice of a designer rather than chance events. In any case, the author will be the first one to admit that the new model of evolution delineated in this opus is not born out of the crisis that is currently rocking neo-Darwinism, a crisis sparked by the assaults of many thinkers and scientists, including those of the ID movement. He is also quick to reveal how little he knew about the standoff between the two main protagonists in the crisis of the theory of natural selection before he began work on this book, cloistered as he was both literally and figuratively within the confines of emergency rooms caring for the sick and injured. In *Ways of Nature*, Dr. Décossard explores the paths taken by life since its apparition and shines a bright spotlight on its destiny and the fate of the universe. In so doing, he also identifies the connections between the living and the nonliving and opens our eyes to novel ideas about physical phenomena whose conventional descriptions we thought were settled. *Ways of Nature* is undoubtedly a landmark publication. It is indeed a paradigm shift à la Kuhn in our understanding of life and its evolution.

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