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Born to Choose is John H. Falk's compelling account of why and how we make the endless set of choices we do, every second of every day of our lives. Synthesizing research from across the biological and social sciences, Falk argues that human choice-making is an evolutionarily ancient and complex process. He suggests that all our choices are influenced by very basic and early evolving needs, and that ultimately each choice is designed to support survival in the guise of perceived well-being. This engaging book breaks new intellectual ground and enhances our understanding not just of human choice-making but human behavior overall.

The areas of personal genomics and citizen science draw on – and bring together – different cultures of producing and managing knowledge and meaning. They also cross local and global boundaries, are subjects and objects of transformation and mobility of research practices, evaluation and multi-stakeholder groups. Thirdly, they draw on logics of 'convergence': new links between, and new kinds of, stakeholders, spaces, knowledge, practices, challenges and opportunities. This themed collection of essays from nationally and internationally leading scholars and commentators advances and widens current debates in Science and Technology Studies and in Science Policy concerning 'converging technologies' by complementing the customary focus on technical aspirations for convergence with the analysis of the practices and logics of scientific, social and cultural knowledge production that constitute contemporary technoscience. In case studies from across the globe, contributors discuss the ways in which science and social order are linked in areas such as direct-to consumer genetic testing and do-it-yourself biotechnologies. Organised into thematic sections, "Knowing New Biotechnologies' explores: [] ways of understanding the dynamics and logics of convergences in emergent biotechnologies [] governance and regulatory issues around technoscientific convergences [] democratic aspects of converging technologies – lay involvement in scientific research and the co-production of biotechnology and social and cultural knowledge.

A Brookings Institution Press and the National University of Singapore Press publication This is the story of the Singapore healthcare system: how it works, how it is financed, its history, where it is going, and what lessons it may hold for national health systems around the world. Singapore ranks sixth in the world in healthcare outcomes, yet spends proportionally less on healthcare than any other high-income country. This is the first book to set out a comprehensive system-level description of healthcare in Singapore, with a view to understanding what can be learned from its unique system design and development path. The lessons from Singapore will be of interest to those currently planning the future of healthcare in emerging economies, as well as those engaged in the urgent debates on healthcare in the wealthier countries faced with serious long-term challenges in healthcare financing. Policymakers, legislators, public health officials responsible for healthcare systems planning, finance and operations, as well as those working on healthcare issues in universities and think tanks should understand how the Singapore system works to achieve affordable excellence.

One of the most interesting issues in immunology is how the innate and adaptive branches of the immune system cooperate in vertebrate organisms to respond and destroy invading microorganisms without destroying self-tissues. More than 20 years ago, Charles Janeway proposed the innate immune recognition theory [1]. He hypothesized the existence of innate receptors (Pattern recognition receptors, PRRs) that, by recognizing molecular structures associated to pathogens (PAMPs) and being expressed by antigen presenting cells (APCs) and epithelial cells, could alert the immune system to the presence of a pathogen, making it possible to mount an immediate inflammatory response. Moreover, by transducing the alert signal in professional APCs and inducing the expression of costimulatory molecules, these receptors could control the activation of lymphocytes bearing clonal antigen-specific receptors, thereby promoting appropriate adaptive immune responses. Since adaptive immunity can be activated also following sterile inflammatory conditions, it was subsequently proposed by Polly Matzinger that the innate immune system could be also activated by endogenous danger signals, generically called danger associated molecular patterns (DAMPs)[2]. The first prediction has been amply confirmed by the discovery of Toll-like receptors [3; 4; 5] and cytoplasmic PRRs such as RIG-like receptors [6]. Other PRR families such as the NOD-like receptors and C-type lectins exert immunogenic or tolerogenic signals [7; 8; 9] and may recognize not strictly pathogens but also endogenous danger signals that may lead to inflammasome activation [10; 11] . Dendritic cells (DCs) have been identified as the cells of the innate immune system that, by sensing PAMPs or DAMPs transduce signals to the nucleus. This leads to a transcriptional reprogramming of DCs with the consequent expression of three signals, namely signal 1 (MHC+peptide), signal 2 (surface costimulatory molecules) and signal 3 (cytokines) necessary for the priming of antigen-specific naive T cell responses (signal 1 and 2) and T cell polarization (signal 3). The reason why DCs are superior with respect to other professional APCs in naïve T cell activation has not been unequivocally defined but in vivo may mainly result from their migration capacity to secondary lymphoid organs. It has not been established whether DCs can provide a special "signal 2" or simply very high levels, compared with other APCs, of commonly expressed signals 1 and 2, so that a naive T cell could reach the threshold of activation. A second aspect of DC biology needs also to be taken into account. Concerning the question of how self-tissues are not destroyed following the initiation of adaptive immune responses, different mechanisms of central and peripheral auto-reactive T cell tolerization have been proposed [12]. In particular, it has been defined that high affinity T cells are deleted in the thymus, while low affinity auto-reactive T cells or T cells specific for tissue-sequestered antigens that do not have access to the thymus are controlled in the periphery. In a simplified vision of how peripheral T cell tolerance could be induced and maintained, it was thought that, in resting conditions, immature DCs, expressing low levels of signal 1 and low or no levels of signal 2, were able to induce T cell unresponsiveness. Nevertheless, it is now clear that a fundamental contribution to the peripheral tolerance is due to the conversion of naive T cells into peripheral regulatory T cells (pTreg cells) and it is also clear that DCs need to receive a specific conditioning to become able to induce pTreg cell differentiation. Even more intriguing is that also DCs activated through PRRs, with particular Toll like receptor (TLR) agonists, are capable of generating pTreg cell conversion if these agonists induce the production of the appropriate cytokines.

This classic text has been used in over 20 countries by advanced undergraduate and beginning graduate students in biophysics, physiology, medical physics, neuroscience, and biomedical engineering. It bridges the gap between an introductory physics course and the application of physics to the life and biomedical sciences. Extensively revised and updated, the fifth edition incorporates new developments at the interface between physics and biomedicine. New coverage includes cyclotrons, photodynamic therapy, color vision, x-ray crystallography, the electron microscope, cochlear implants, deep brain stimulation, nanomedicine, and other topics highlighted in the National Research Council report BIO2010. As with the previous edition, the first half of the text is primarily biological physics, emphasizing the use of ideas from physics to understand biology and physiology, and the second half is primarily medical physics, describing the use of physics in medicine for diagnosis (mainly imaging) and therapy. Prior courses in physics and in calculus are assumed. Intermediate Physics for Medicine and Biology is also ideal for self study and as a reference for workers in medical and biological research. Over 850 problems test and enhance the student's understanding and provide additional biological examples. A solutions manual is available to instructors. Each chapter has an extensive list of references.

As the need for sustainable development practices around the world continues to grow, it has become imperative for citizens to become actively engaged in the global transition. By evaluating data collected from various global programs, researchers are able to identify strategies and challenges in implementing civic engagement initiatives. Analyzing the Role of Citizen Science in Modern Research focuses on analyzing data on current initiatives and best practices in citizen engagement and education programs across various disciplines. Highlighting emergent research and application techniques within citizen science initiatives, this publication appeals to academicians, researchers, policy makers, government officials, technology developers, advanced-level students and program developers interested in launching or improving citizen science programs across the globe.

What are the impacts of population growth? Can our planet support the demands of the ten billion people anticipated to be the world's population by the middle of this century? While it is common to hear about the problems of overpopulation, might there be unexplored benefits of increasing numbers of people in the world? How can we both consider and harness the potential benefits brought by a healthier, wealthier and larger population? May more people mean more scientists to discover how our world works, more inventors and thinkers to help solve the world's problems, more skilled people to put these ideas into practice? In this book, leading academics with a wide range of expertise in demography, philosophy, biology, climate science, economics and environmental sustainability explore the contexts, costs and benefits of a burgeoning population on our economic, social and environmental systems.

Biological Identification provides a detailed review of, and potential future developments in, the technologies available to counter the threats to life and health posed by natural pathogens, toxins, and bioterrorism agents. Biological identification systems must be fast, accurate, reliable, and easy to use. It is also important to employ the most suitable technology in dealing with any particular threat. This book covers the fundamentals of these vital systems and lays out possible advances in the technology. Part one covers the essentials of DNA and RNA sequencing for the identification of pathogens, including next generation sequencing (NGS), polymerase chain reaction (PCR) methods, isothermal amplification, and bead array technologies. Part two addresses a variety of approaches to making identification systems portable, tackling the special requirements of smaller, mobile systems in fluid movement, power usage, and sample preparation. Part three focuses on a range of optical methods and their advantages. Finally, part four describes a unique approach to sample preparation and a promising approach to identification using mass spectroscopy. Biological Identification is a useful resource for academics and engineers involved in the microelectronics and sensors industry, and for companies, medical organizations and military bodies looking for biodetection solutions. Covers DNA sequencing of pathogens, lab-on-chip, and portable systems for biodetection and analysis Provides an in-depth description of optical systems and explores sample preparation and mass spectrometry-based biological analysis

Clinicians and scientists are increasingly recognising the importance of an evolutionary perspective in studying the aetiology, prevention, and treatment of human disease; the growing prominence of genetics in medicine is further adding to the interest in evolutionary medicine. In spite of this, too few medical students or residents study evolution. This book builds a compelling case for integrating evolutionary biology into undergraduate and postgraduate medical education, as well as its intrinsic value to medicine. Chapter by chapter, the authors - experts in anthropology, biology, ecology, physiology, public health, and various disciplines of medicine - present the rationale for clinically-relevant evolutionary thinking. They achieve this within the broader context of medicine but through the focused lens of maternal and child health, with an emphasis on female reproduction and the early-life biochemical, immunological, and microbial responses influenced by evolution. The tightly woven and accessible narrative illustrates how a medical education that considers evolved traits can deepen our understanding of the complexities of the human body, variability in health, susceptibility to disease, and ultimately help guide treatment, prevention, and public health policy. However, integrating evolutionary biology into medical education continues to face several roadblocks. The medical curriculum is already replete with complex subjects and a long period of training. The addition of an evolutionary perspective to this curriculum would certainly seem daunting, and many medical educators express concern over potential controversy if evolution is introduced into the curriculum of their schools. Medical education urgently needs strategies and teaching aids to lower the barriers to incorporating evolution into medical training. In summary, this call to arms makes a strong case for incorporating evolutionary thinking early in medical training to help guide the types of critical questions physicians ask, or should be asking. It will be of relevance and use to evolutionary biologists, physicians, medical students, and biomedical research scientists.

Volume 2: Focuses on the tensions that arise between people and wildlife on agricultural land, and explores how to mitigate them. It investigates the common sources of conflict and the consequential threats to conservation, discussing a variety of solutions and demonstrating the benefits of an evidence-based, interdisciplinary strategy. --

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