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SPLICING LIFE

A REPORT ON THE SOCIAL AND ETHICAL ISSUES OF GENETIC ENGINEERING WITH HUMAN BEINGS

ESSENTIALS OF MEDICAL GENOMICS

John Wiley & Sons *This introductory reference provides a practical, concise summary of everything a physician needs to know about genomics and emerging technologies. Through extensive illustrative examples, this book offers a clear and concise starting point to understanding how medicine has been, and will be, transformed by genomics and bioinformatics. Beginning with a clear overview on the Human Genome Project and its revolutionary impact, the book further investigates new technologies in detail, including: high-throughput DNA sequencing, genome sequence databases, microarrays, proteomics, pharmacogenomics, genetic testing, and gene therapy.*

GENETICS AND SPORTS

Karger Medical and Scientific Publishers *This second edition of Genetics and Sports expands on topics previously discussed in an*

attempt to create an integrated and holistic understanding of the field of sports genomics. It is an update on technologies and on the role of genetics in training, performance, injury, and other exercise-related phenotypes. Ethical concerns and the importance of counselling before and after genetic testing are also addressed. It is increasingly important to understand the field of genetics and sports because of the potential to use and misuse information. All exercise scientists, sport and exercise clinicians, athletes, and coaches need to be adequately informed to ensure that genetic information is accurately and properly used. Genetics and Sports is, therefore, highly recommended to all of these groups.

MAPPING OUR GENES : THE GENOME PROJECTS : HOW BIG, HOW FAST?

DIANE Publishing

GENE DRIVES ON THE HORIZON

ADVANCING SCIENCE, NAVIGATING UNCERTAINTY, AND ALIGNING RESEARCH WITH PUBLIC VALUES

National Academies Press *Research on gene drive systems is rapidly advancing. Many proposed applications of gene drive research aim to solve environmental and public health challenges, including the reduction of poverty and the burden of vector-borne diseases, such as malaria and dengue, which disproportionately impact low and middle income countries. However, due to their intrinsic qualities of rapid spread and irreversibility, gene drive systems raise many questions with respect to their safety relative to public and environmental health. Because gene drive systems are designed to alter the environments we share in ways that will be hard to anticipate and impossible to completely roll back, questions about the ethics surrounding use of this research are complex and will require very careful exploration. Gene Drives on the Horizon outlines the state of knowledge relative to the science, ethics, public engagement, and risk assessment as they pertain to research directions of gene drive systems and governance of the research process. This report offers principles for responsible practices of gene drive research and related applications for use by investigators, their institutions, the research funders, and regulators.*

PLAYING GOD?

HUMAN GENETIC ENGINEERING AND THE RATIONALIZATION OF PUBLIC BIOETHICAL DEBATE

University of Chicago Press *Acknowledgments* Introduction 1. Framework for Understanding the Thinning of a Public Debate 2. Setting the Stage: The Eugenicists and the Challenge from Theologians 3. Gene Therapy, Advisory Commissions, and the Birth of the

*Bioethics Profession*⁴. *The President's Commission: The "Neutral" Triumph of Formal Rationality*⁵. *Regaining Lost Jurisdictional Ground and the Triumph of the Bioethics Profession*⁶. *"Reproduction" as the New Jurisdictional Metaphor: Autonomy and the Internal Threat to the Bioethics/Science Jurisdiction*⁷. *Conclusion: The Future of Public Bioethics and the HGE Debate*
Appendix: Methods and Tables
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Works Cited
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MOLECULAR BIOTECHNOLOGY

PRINCIPLES AND APPLICATIONS OF RECOMBINANT DNA

The second edition explains the principles of recombinant DNA technology as well as other important techniques such as DNA sequencing, the polymerase chain reaction, and the production of monoclonal antibodies.

A LIFE DECODED

MY GENOME: MY LIFE

Penguin UK *Craig Venter is no ordinary scientist, and no ordinary man. He is the first human being ever to read their own DNA – and see the key to life itself. Yet in doing so, he rocked the establishment and became embroiled in one of the biggest controversies of our age. This is the story of his incredible life: from teenage rebel and Vietnam medic, to daredevil sailor and maverick researcher, whose race to unravel the sequence of the human genome made him both hero and pariah. Incorporating his own genetic make-up into his story, this is an electrifying portrait of a man who pushed back the boundaries of the possible.*

THE ETHICS OF RESEARCH BIOBANKING

Springer Science & Business Media *Biobanking, i.e. storage of biological samples or data emerging from such samples for diagnostic, therapeutic or research purposes, has been going on for decades. However, it is only since the mid 1990s that these activities have become the subject of considerable public attention, concern and debate. This shift in climate is due to several factors. The purpose of this book is to investigate some of the ethical, legal and social challenges raised by research biobanking in its different modern forms and formats. The issues raised by research biobanking in its modern form can be divided into four main clusters: how biological materials are entered into the bank; research biobanks as institutions; under what conditions researchers can access materials in the bank, and problems concerning ownership of biological materials and of intellectual property arising from such materials; and how the information is collected and stored, e.g. access-rights, disclosure, confidentiality, data security and data*

protection.

THE ETHICAL SPIRIT OF EU LAW

Springer *This open access book seeks to identify the ethical spirit of European Union (EU) law, a context in which we can observe a trend towards increasing references to the terms ‘ethics’ and ‘morality’. This aspect is all the more important because EU law is now affecting more and more areas of national law, including such sensitive ones as the patentability of human life. Especially when unethical behaviour produces legal consequences, the frequent lack of clearly defined concepts remains a challenge, particularly against the background of the principle of legal certainty. This raises the question to which extent the content of these references is determined and whether it is possible to identify an ethical spirit of EU law. Answering that question, in turn, entails addressing the following questions: In references to ethics concerning EU law, can we identify references to a particular theory of practical philosophy at all; and, if so, to one or more normative ethical theories (deontology, consequentialism, or virtue ethics)? Further, should these non-legal concepts be imported in an unaltered way (“absolute approach”), or be adapted to the legal context (“relative approach”)?* This book explores the different layers of EU law (primary law, agreements, secondary law, and tertiary law), including the role of ethics in EU lawmaking and in EU case law, as well as the implementation of relevant EU directives in selected Member States. In addition to the above-mentioned normative philosophical lens, the book also analyzes the findings from the legal lens of EU integration, i.e., especially EU values, human rights and the cornerstone of human dignity.

MOLECULAR FEMINISMS

BIOLOGY, BECOMINGS, AND LIFE IN THE LAB

University of Washington Press ♦ *Should feminists clone? ♦ What do neurons think about? ♦ How can we learn from bacterial writing? ♦ These provocative questions have haunted neuroscientist and molecular biologist Deboleena Roy since her early days of research when she was conducting experiments on an in vitro cell line using molecular biology techniques. An expert natural scientist as well as an intrepid feminist theorist, Roy takes seriously the expressive capabilities of biological ♦ objects ♦ such as bacteria and other human, nonhuman, organic, and inorganic actants ♦ in order to better understand processes of becoming. She also suggests that renewed interest in matter and materiality in feminist theory must be accompanied by new feminist approaches that work with the everyday, nitty-gritty research methods and techniques in the natural sciences. By practicing science as feminism at the lab bench, Roy creates an interdisciplinary conversation between molecular biology, Deleuzian philosophies, science and technology studies, feminist theory, posthumanism, and postcolonial and decolonial studies. In Molecular Feminisms she brings insights from feminist and*

cultural theory together with lessons learned from the capabilities and techniques of bacteria, subcloning, and synthetic biology to offer tools for how we might approach nature anew. In the process she demonstrates that learning how to see the world around us is also always about learning how to encounter that world.

RESEARCH ETHICS IN AFRICA

A RESOURCE FOR RESEARCH ETHICS COMMITTEES

AFRICAN SUN MeDIA *The aim of this book is to provide research ethics committee members with a resource that focuses on research ethics issues in Africa. The authors are currently active in various aspects of research ethics in Africa and the majority have been trained in the past by either the Fogarty International Center or Europe and Developing Countries Clinical Trial Partnership (EDCTP) sponsored bioethics training programmes .*

PATENT LANDSCAPE REPORT ON ANIMAL GENETIC RESOURCES

WIPO *This report represents the first large-scale quantitative analysis related to patenting activity involving livestock animals. It includes biotechnology, pharmaceuticals, immunology and gene therapy, stem cells and transgenic animals and as such, its main focus is on addressing the challenges involved in identifying patent activity for animal genetic resources in general and activity relating to animal genetic resources for food and agriculture in particular. Additionally, the report explores the use of traditional knowledge (TK) and the mention of the source of origin of genetic resources in patent documents.*

EXERCISE GENOMICS

Springer Science & Business Media *Exercise Genomics encompasses the translation of exercise genomics into preventive medicine by presenting a broad overview of the rapidly expanding research examining the role of genetics and genomics within the areas of exercise performance and health-related physical activity. Leading researchers from a number of the key exercise genomics research groups around the world have been brought together to provide updates and analysis on the key discoveries of the past decade, as well as lend insights and opinion about the future of exercise genomics, especially within the contexts of translational and personalized medicine. Clinicians, researchers and health/fitness professionals will gain up-to-date background on the key findings and critical unanswered questions across several areas of exercise genomics, including performance, body composition, metabolism, and cardiovascular disease risk factors. Importantly, basic information on genomics, research methods, and statistics are presented within*

the context of exercise science to provide students and professionals with the foundation from which to fully engage with the more detailed chapters covering specific traits. *Exercise Genomics* will be of great value to health/fitness professionals and graduate students in kinesiology, public health and sports medicine desiring to learn more about the translation of exercise genomics into preventive medicine.

YEAST METABOLIC ENGINEERING

METHODS AND PROTOCOLS

Humana Press *Yeast Metabolic Engineering: Methods and Protocols* provides the widely established basic tools used in yeast metabolic engineering, while describing in deeper detail novel and innovative methods that have valuable potential to improve metabolic engineering strategies in industrial biotechnology applications. Beginning with an extensive section on molecular tools and technology for yeast engineering, this detailed volume is not limited to methods for *Saccharomyces cerevisiae*, but describes tools and protocols for engineering other yeasts of biotechnological interest, such as *Pichia pastoris*, *Hansenula polymorpha* and *Zygosaccharomyces bailii*. Tools and technologies for the investigation and determination of yeast metabolic features are described in detail as well as metabolic models and their application for yeast metabolic engineering, while a chapter describing patenting and regulations with a special glance at yeast biotechnology closes the volume. Written in the highly successful *Methods in Molecular Biology* series format, most chapters include an introduction to their respective topic, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols and tips on troubleshooting and avoiding known pitfalls. Comprehensive and authoritative, *Yeast Metabolic Engineering: Methods and Protocols* aims to familiarize researchers with the current state of these vital and increasingly useful technologies.

NEW VISIONS OF NATURE

COMPLEXITY AND AUTHENTICITY

Springer Science & Business Media "New Visions of Nature" focuses on the emergence of these new visions of complex nature in three domains. The first selection of essays reflects public visions of nature, that is, nature as it is experienced, encountered, and instrumentalized by diverse publics. The second selection zooms in on micro nature and explores the world of contemporary genomics. The final section returns to the macro world and discusses the ethics of place in present-day landscape philosophy and environmental ethics. The contributions to this volume explore perceptual and conceptual boundaries between the human and the

natural, or between an 'out there' and 'in here.' They attempt to specify how nature has been publicly and genomically constructed, known and described through metaphors and re-envisioned in terms of landscape and place. By parsing out and rendering explicit these divergent views, the volume asks for a re-thinking of our relationship with nature.

BIOSOCIAL WORLDS

ANTHROPOLOGY OF HEALTH ENVIRONMENTS BEYOND DETERMINISM

UCL Press *Biosocial Worlds* presents state-of-the-art contributions to anthropological reflections on the porous boundaries between human and non-human life – biosocial worlds. Based on changing understandings of biology and the social, it explores what it means to be human in these worlds. Growing separation of scientific disciplines for more than a century has maintained a separation of the 'natural' and the 'social' that has created a space for projections between the two. Such projections carry a directional causality and so constitute powerful means to establish discursive authority. While arguing against the separation of the biological and the social in the study of human and non-human life, it remains important to unfold the consequences of their discursive separation. Based on examples from Botswana, Denmark, Mexico, the Netherlands, Uganda, the UK and USA, the volume explores what has been created in the space between 'the social' and 'the natural', with a view to rethink 'the biosocial'. Health topics in the book include diabetes, trauma, cancer, HIV, tuberculosis, prevention of neonatal disease and wider issues of epigenetics. Many of the chapters engage with constructions of health and disease in a wide range of environments, and engage with analysis of the concept of 'environment'. Anthropological reflection and ethnographic case studies explore how 'health' and 'environment' are entangled in ways that move their relation beyond interdependence to one of inseparability. The subtitle of this volume captures these insights through the concept of 'health environment', seeking to move the engagement of anthropology and biology beyond deterministic projections.

BIOECONOMY

SHAPING THE TRANSITION TO A SUSTAINABLE, BIOBASED ECONOMY

Springer *This book is open access under a CC BY 4.0 license. This book defines the new field of "Bioeconomy" as the sustainable and innovative use of biomass and biological knowledge to provide food, feed, industrial products, bioenergy and ecological services. The chapters highlight the importance of bioeconomy-related concepts in public, scientific, and political discourse. Using an interdisciplinary approach, the authors outline the dimensions of the bioeconomy as a means of achieving sustainability. The authors are ideally situated to elaborate on the diverse aspects of the bioeconomy. They have acquired in-depth experience of*

interdisciplinary research through the university's focus on "Bioeconomy", its contribution to the Bioeconomy Research Program of the federal state of Baden-Württemberg, and its participation in the German Bioeconomy Council. With the number of bioeconomy-related projects at European universities rising, this book will provide graduate students and researchers with background information on the bioeconomy. It will familiarize scientific readers with bioeconomy-related terms and give scientific background for economists, agronomists and natural scientists alike.

AN INTRODUCTION TO GENETIC ENGINEERING

Cambridge University Press *The author presents a basic introduction to the world of genetic engineering. Copyright © Libri GmbH. All rights reserved.*

PRINCIPLES OF PLANT GENETICS AND BREEDING

John Wiley & Sons *To respond to the increasing need to feed the world's population as well as an ever greater demand for a balanced and healthy diet there is a continuing need to produce improved new cultivars or varieties of plants, particularly crop plants. The strategies used to produce these are increasingly based on our knowledge of relevant science, particularly genetics, but involves a multidisciplinary understanding that optimizes the approaches taken. Principles of Plant Genetics and Breeding, 2nd Edition introduces both classical and molecular tools for plant breeding. Topics such as biotechnology in plant breeding, intellectual property, risks, emerging concepts (decentralized breeding, organic breeding), and more are addressed in the new, updated edition of this text. Industry highlight boxes are included throughout the text to contextualize the information given through the professional experiences of plant breeders. The final chapters provide a useful reference on breeding the largest and most common crops. Up-to-date edition of this bestselling book incorporating the most recent technologies in the field Combines both theory and practice in modern plant breeding Updated industry highlights help to illustrate the concepts outlined in the text Self assessment questions at the end of each chapter aid student learning Accompanying website with artwork from the book available to instructors*

MOLECULAR BIOLOGY IN CELLULAR PATHOLOGY

John Wiley & Sons *The latest edition of this highly successful text, covers the major advances in the methods used in cellular and molecular pathology. In recent years, knowledge of the molecular organization of the cell has led to the development of powerful new techniques that bring greater accuracy and objectives to the diagnosis, prognosis and management of many diseases and to the study of pathological states. This book describes the latest molecular techniques available for the analysis of diseases. In particular it*

includes new techniques using fluorescent dyes, DNA microarrays, protein chemistry, and mass spectrometry. It also incorporates information from the Human Genome Project, and the new disciplines of genomics and proteomics, where relevant to pathology. Color plates are a new feature of this edition, illustrating the advances in fluorescence labeling of cells.

FACILITATING INTERDISCIPLINARY RESEARCH

National Academies Press *Facilitating Interdisciplinary Research* examines current interdisciplinary research efforts and recommends ways to stimulate and support such research. Advances in science and engineering increasingly require the collaboration of scholars from various fields. This shift is driven by the need to address complex problems that cut across traditional disciplines, and the capacity of new technologies to both transform existing disciplines and generate new ones. At the same time, however, interdisciplinary research can be impeded by policies on hiring, promotion, tenure, proposal review, and resource allocation that favor traditional disciplines. This report identifies steps that researchers, teachers, students, institutions, funding organizations, and disciplinary societies can take to more effectively conduct, facilitate, and evaluate interdisciplinary research programs and projects. Throughout the report key concepts are illustrated with case studies and results of the committee's surveys of individual researchers and university provosts.

TRANSLATIONAL BIOINFORMATICS AND ITS APPLICATION

Springer *This book offers a detailed overview of translational bioinformatics together with real-case applications. Translational bioinformatics integrates the areas of basic bioinformatics, clinical informatics, statistical genetics and informatics in order to further our understanding of the molecular basis of diseases. By analyzing voluminous amounts of molecular and clinical data, it also provides clinical information, which can then be applied. Filling the gap between clinic research and informatics, the book is a valuable resource for human geneticists, clinicians, health educators and policy makers, as well as graduate students majoring in biology, biostatistics, and bioinformatics.*

MOLECULAR DIAGNOSTICS: PROMISES AND POSSIBILITIES

Springer Science & Business Media *A rapid development in diverse areas of molecular biology and genetic engineering resulted in emergence of variety of tools. These tools are not only applicable to basic researches being carried out world over, but also exploited for precise detection of abnormal conditions in plants, animals and human body. Although a basic researcher is well versed with few techniques used by him/her in the laboratory, they may not be well acquainted with methodologies, which can be used to work out*

some of their own research problems. The picture is more blurred when the molecular diagnostic tools are to be used by physicians, scientists and technicians working in diagnostic laboratories in hospitals, industry and academic institutions. Since many of them are not trained in basics of these methods, they come across several gray areas in understanding of these tools. The accurate application of molecular diagnostic tools demands in depth understanding of the methodology for precise detection of the abnormal condition of living body. To meet the requirements of a good book on molecular diagnostics of students, physicians, scientists working in agricultural, veterinary, medical and pharmaceutical sciences, it needs to expose the reader lucidly to: Give basic science behind commonly used tools in diagnostics Expose the readers to detailed applications of these tools and Make them aware the availability of such diagnostic tools The book will attract additional audience of pathologists, medical microbiologists, pharmaceutical sciences, agricultural scientists and veterinary doctors if the following topics are incorporated at appropriate places in Unit II or separately as a part of Unit-III in the book. Molecular diagnosis of diseases in agricultural crops Molecular diagnosis of veterinary diseases. Molecular epidemiology, which helps to differentiate various epidemic strains and sources of disease outbreaks. Even in different units of the same hospital, the infections could be by different strains of the same species and the information becomes valuable for infection control strategies. Drug resistance is a growing problem for bacterial, fungal and parasitic microbes and the molecular biology tools can help to detect the drug resistance genes without the cultivation and in vitro sensitivity testing. Molecular diagnostics offers faster help in the selection of the proper antibiotic for the treatment of tuberculosis, which is a major problem of the in the developing world. The conventional culture and drug sensitivity testing of tuberculosis bacilli is laborious and time consuming, whereas molecular diagnosis offers rapid drug resistant gene detection even from direct clinical samples. The same approach for HIV, malaria and many more diseases needs to be considered. Molecular diagnostics in the detection of diseases during foetal life is an upcoming area in the foetal medicine in case of genetic abnormalities and infectious like TORCH complex etc. The book will be equally useful to students, scientists and professionals working in the field of molecular diagnostics.

INFORMATION AND COMMUNICATION TECHNOLOGY FOR INTELLIGENT SYSTEMS

PROCEEDINGS OF ICTIS 2020, VOLUME 1

Springer Nature This book gathers papers addressing state-of-the-art research in all areas of information and communication technologies and their applications in intelligent computing, cloud storage, data mining and software analysis. It presents the outcomes of the Fourth International Conference on Information and Communication Technology for Intelligent Systems, which was held in Ahmedabad, India. Divided into two volumes, the book discusses the fundamentals of various data analysis techniques and algorithms, making it a valuable resource for researchers and practitioners alike.

AGRO-INDUSTRIES FOR DEVELOPMENT

CABI *The development of competitive agro-industries is crucial for creating employment and income opportunities as well as enhancing the quality of and demand for farm products. Agro-industries can have a real effect on international development by increasing economic growth and reducing poverty in both rural and urban areas of developing countries. However, in order to avoid adverse effects to vulnerable countries and people, sound policies and strategies for fostering agro-industries are needed. Agro-Industries for Development highlights the current status and future course for agro-industries and brings attention to the contributions this sector can make to international development. The book includes contributions from agro-industry specialists, academic experts and UN technical agencies, chapters address the strategies and actions required for improving agro-industrial competitiveness in ways that can create income, generate employment and fight poverty in the developing world. This book is a co-publication with FAO and UNIDO.*

CONSERVATION BIOLOGY FOR ALL

Oxford University Press *Conservation Biology for All provides cutting-edge but basic conservation science to a global readership. A series of authoritative chapters have been written by the top names in conservation biology with the principal aim of disseminating cutting-edge conservation knowledge as widely as possible. Important topics such as balancing conservation and human needs, climate change, conservation planning, designing and analyzing conservation research, ecosystem services, endangered species management, extinctions, fire, habitat loss, and invasive species are covered. Numerous textboxes describing additional relevant material or case studies are also included. The global biodiversity crisis is now unstoppable; what can be saved in the developing world will require an educated constituency in both the developing and developed world. Habitat loss is particularly acute in developing countries, which is of special concern because it tends to be these locations where the greatest species diversity and richest centres of endemism are to be found. Sadly, developing world conservation scientists have found it difficult to access an authoritative textbook, which is particularly ironic since it is these countries where the potential benefits of knowledge application are greatest. There is now an urgent need to educate the next generation of scientists in developing countries, so that they are in a better position to protect their natural resources.*

ANIMAL EXPERIMENTATION

WORKING TOWARDS A PARADIGM CHANGE

Human-Animal Studies *Animal Experimentation: Working Towards a Paradigm Change* critically appraises current animal use in science and discusses ways in which we can contribute to a paradigm change towards human-biology based approaches.

THE GROWING GAP BETWEEN EMERGING TECHNOLOGIES AND LEGAL-ETHICAL OVERSIGHT

THE PACING PROBLEM

Springer Science & Business Media *At the same time that the pace of science and technology has greatly accelerated in recent decades, our legal and ethical oversight mechanisms have become bogged down and slower. This book addresses the growing gap between the pace of science and technology and the lagging responsiveness of legal and ethical oversight society relies on to govern emerging technologies. Whether it be biotechnology, genetic testing, nanotechnology, synthetic biology, computer privacy, autonomous robotics, or any of the other many emerging technologies, new approaches are needed to ensure appropriate and timely regulatory responses. This book documents the problem and offers a toolbox of potential regulatory and governance approaches that might be used to ensure more responsive oversight.*

APPROACHES TO GLOBAL GOVERNANCE THEORY

State University of New York Press *Showcases diverse theoretical approaches in the emerging area of global governance.*

BIO#FUTURES

FORESEEING AND EXPLORING THE BIOECONOMY

Springer Nature *This volume presents a timely recognition, warning and mapping of the fast approaching wave, or “bio-tsunami”, of global socio-technical transformation, built by a much wider spectrum of converging powers, including biotechnology, new agriculture, novel foods, health, quality of life, environment, energy, sustainability, education, knowledge management, and design of smart applications. The book contains eight sections corresponding to different clusters of bioeconomic and socio-technical change, as identified by the editors’ “Scanning the Horizon” foresight research; it also offers an integrated view of the future bioeconomy landscape through the convergence of several technologies that affect everyday life. The clusters offer methodologies for forecasting the future bioeconomy, and how these predictions can affect target-setting and the orientation of policies and actions to manage*

cultural and societal change, and achieve sustainable development in less developed areas. The book will be of interest to researchers, producers, logistics experts, policy makers, regulators, business and financial institutions, and biotechnologists (e.g. geneticists, food experts, etc.).

POULTRY GENETICS, BREEDING, AND BIOTECHNOLOGY

CABI This comprehensive research book represents the first complete integration of current knowledge in this area. It addresses issues associated with poultry breeding particularly by examining quantitative and molecular genetics and the uses of transgenic technology. A special section covers the important area of disease resistance and transmission.

GOVERNANCE OF DUAL USE RESEARCH IN THE LIFE SCIENCES

ADVANCING GLOBAL CONSENSUS ON RESEARCH OVERSIGHT: PROCEEDINGS OF A WORKSHOP

National Academies Press Continuing advances in science and technology offer the promise of providing tools to meet global challenges in health, agriculture, the environment, and economic development; some of the benefits are already being realized. However, such advances have the potential to challenge the oversight systems for responsible conduct of life sciences research with dual use potential – research that may have beneficial applications but that also could be misused to cause harm. Between June 10 and 13, 2018, more than 70 participants from 30 different countries and 5 international organizations took part in an international workshop, *The Governance of Dual Use Research in the Life Sciences: Advancing Global Consensus on Research Oversight*, to promote global dialogue and increased common understandings of the essential elements of governance for such research. Hosted by the Croatian Academy of Sciences and Arts in Zagreb, Croatia, the workshop was a collaboration among the InterAcademy Partnership, the Croatian Academy, the Croatian Society for Biosafety and Biosecurity, and the U.S. National Academies of Sciences, Engineering, and Medicine. This publication summarizes the presentations and discussions from the workshop.

CURRENT DEBATES IN INTERNATIONAL RELATIONS & LAW

VOLUME 4

ismail siriner In this collection of CUPES 2017, wide spectrum of topics that occupy primary place in the current debates of International Relations and Law were addressed by the papers presented at the Current Debates in Social Sciences Conference which was held in İstanbul, on December 14-16, 2017. The purpose of this conference was to provide a forum for scholars, researchers and

students to foster discussion and expand understanding on the current themes of Social Sciences. In parallel to changing and multiplying dynamics of world politics, papers reflect diversity of issues in International Relations and Law including: the impacts of the Syrian Refugee Crisis on EU-Turkey relations, lone wolf terrorism, energy security, Russia's domestic factors in its foreign policy, foreign policy of Iran and Russia in the Middle East, Mirziyoyev's first year in presidency, Turkish foreign aid under the Justice and Development Party, the place of civil aviation in Turkish foreign policy as a soft power instrument, the Kosovo intervention in the context of UN's human security discourse, UN and gender issues, mediation in international law and Turkey, the development of good corporate governance in Turkey, Ombudsman institution in Turkey, the status of surviving spouse in terms of law of succession and the regime of participation in acquired property in Turkey, legitimacy of censorship in the West from the perspective of human rights, intellectual property protection for plant innovation, legal framework of 'autonomy in modern liberal eugenics', the impact of the new technologies on the law.

GENDER AND GENES

YEARBOOK FOR WOMEN'S HISTORY (JAARBOEK VOOR VROUWENGESCHIEDENIS) 33

Uitgeverij Verloren *This Yearbook of Women's History (Jaarboek voor Vrouwengeschiedenis) is dedicated to Gender and Genes. Intruding upon our everyday lives, the world of DNA, genes and genomics has become a challenging field of research, both clinical and biomedical as well as socio-cultural. It is also a challenging topic for a Yearbook which traditionally focuses on women and gender from a historical point of view. Gender issues are part and parcel of genes and genomics in scientific research and socio-cultural discourses and representations. Current literature on genes and genomics does not abound in analyses of biomedical and socio-cultural realms where gender aspects are played out and exchanged. This Yearbook may thus contribute to a field of analysis which contextualizes history from the viewpoint of current biotechnological developments. This volume contains articles on medical cases (reproductive testing and the case of the sex chromosomes, and framing cancer risk in women and men), cultural representations, a portrait of female scientist Rosalind Franklin and interviews with feminist science philosophers Katarina Karkazis and Donna Dickenson.*

HANDBOOK OF EMERGENT METHODS

Guilford Publications *Social researchers increasingly find themselves looking beyond conventional methods to address complex research questions. This is the first book to comprehensively examine emergent qualitative and quantitative theories and methods across the social and behavioral sciences. Providing scholars and students with a way to retool their research choices, the volume presents cutting-edge approaches to data collection, analysis, and representation. Leading researchers describe alternative uses of*

traditional quantitative and qualitative tools; innovative hybrid or mixed methods; and new techniques facilitated by technological advances. Consistently formatted chapters explore the strengths and limitations of each method for studying different types of research questions and offer practical, in-depth examples.

GLOBAL REPORT

laastd *"In addition to assessing existing conditions and knowledge, the IAASTD uses a simple set of model projections to look at the future, based on knowledge from past events and existing trends such as population growth, rural/urban food and poverty dynamics, loss of agricultural land, water availability, and climate change effects. This set of volumes comprises the findings of the IAASTD. It consists of a Global Report, a brief Synthesis Report, and 5 subglobal reports. Taken as a whole, the IAASTD reports are an indispensable reference for anyone working in the field of agriculture and rural development, whether at the level of basic research, policy, or practice."--BOOK JACKET.*

HIGH-GROWTH FIRMS

FACTS, FICTION, AND POLICY OPTIONS FOR EMERGING ECONOMIES

World Bank Publications *Remarkably, a small fraction of firms account for most of the job and output creation in high-income and developing countries alike. Does this imply that the path to enabling more economic dynamism lies in selectively targeting high-potential firms? Or would pursuing broad-based reforms that minimize distortions be more effective? Inspired by these questions, this book presents new evidence on the incidence, characteristics, and drivers of high-growth firms based on in-depth studies of firm dynamics in Brazil, Côte d'Ivoire, Ethiopia, Hungary, India, Indonesia, Mexico, South Africa, Thailand, Tunisia, and Turkey. Its findings reveal that high-growth firms are not only powerful engines of job and output growth but also create positive spillovers for other businesses along the value chain. At the same time, the book debunks several myths about policies to support firm dynamism that focus on outward characteristics, such as firm size, sector, location, or past performance. Its findings show that most firms struggle to sustain rapid rates of expansion and that the relationship between high growth and productivity is often weak. Consequently, the book calls for a shift toward policies that improve the quality of firm growth by supporting innovation, managerial skills, and firms' ability to leverage global linkages and agglomeration. To help policy makers structure policies that support firm growth, the book proposes a new ABC framework of growth entrepreneurship: improving Allocative efficiency, encouraging Business-to-business spillovers, and strengthening firm Capabilities. This book is the third volume of the World Bank Productivity Project, which seeks to bring frontier thinking on the measurement and determinants of productivity to global policy makers. 'Policy makers often get carried away by the*

disproportionate contributions of high-growth firms to job and output growth and commit to pursuing policies targeting the potential 'stars.' This book separates fact from fiction underpinning such interventions through a comprehensive analysis of high-growth firms across a range of developing countries, making a compelling argument that public policy to pick prospective winners is neither possible nor desirable. Policy makers would be wise to consult its arguments and policy advice when designing the next generation of policies to support the growth of firms.' William R. Kerr Professor of Business Administration, Harvard University; author of *The Gift of Global Talent: How Migration Shapes Business, Economy and Society* 'How to ignite and sustain high firm growth has eluded both economic analysis and thought leaders in policy and business. Through its meticulous and thoughtful analysis, this important new book provides a tractable framework to guide policy to harness the growth and productivity potential of firms in the developing-country context.' David Audretsch Distinguished Professor and Director of the Institute for Development Strategies, Indiana University

PHARMACEUTICAL R & D

COSTS, RISKS & REWARDS

DIANE Publishing Analyzes the costs, risks, and economic rewards of pharmaceutical R&D and the impact of public policy on both costs and returns. Examines the rapid increase in pharmaceutical R&D that began in the 1980s in the light of trends in science, technology, drug discovery, and health insurance coverage; Government regulation; product liability; market competition; Federal tax policy; and Federal support of prescription drug research. 12 appendices, including a glossary of terms.

ADVANCES IN BIOINFORMATICS

Springer Nature This book presents the latest developments in bioinformatics, highlighting the importance of bioinformatics in genomics, transcriptomics, metabolism and cheminformatics analysis, as well as in drug discovery and development. It covers tools, data mining and analysis, protein analysis, computational vaccine, and drug design. Covering cheminformatics, computational evolutionary biology and the role of next-generation sequencing and neural network analysis, it also discusses the use of bioinformatics tools in the development of precision medicine. This book offers a valuable source of information for not only beginners in bioinformatics, but also for students, researchers, scientists, clinicians, practitioners, policymakers, and stakeholders who are interested in harnessing the potential of bioinformatics in many areas.