



OWNING THE GENOME

A Moral Analysis
of DNA Patenting

DAVID B. RESNIK

Owning The Genome A Moral Analysis Of Dna Patenting

George P. Rédei



Owning The Genome A Moral Analysis Of Dna Patenting:

Owning the Genome David B. Resnik, 2012-02-01 DNA patenting has emerged as a hot topic in science policy and bioethics as private companies and government agencies spend billions of dollars on genetic research and development in a race to identify sequence and analyze DNA from human animal and plant species David B Resnik s Owning the Genome explores the ethical social philosophical theological and policy issues surrounding DNA patenting and develops a comprehensive approach to the topic Resnik considers arguments for and against DNA patenting and concludes that only a patent on a whole human genome would be inherently immoral while the morality of other DNA patents depends on their consequences for science medicine agriculture industry and society He also stresses the importance of government regulations and policies in order to minimize the harmful effects of patenting while promoting the beneficial ones

Encyclopedia of Genetics, Genomics, Proteomics, and Informatics George P. Rédei, 2008-04-25 This new third edition updates a best selling encyclopedia It includes about 56% more words than the 1 392 page second edition of 2003 The number of illustrations increased to almost 2 000 and their quality has improved by design and four colors It includes approximately 1 800 current databases and web servers This encyclopedia covers the basics and the latest in genomics proteomics genetic engineering small RNAs transcription factories chromosome territories stem cells genetic networks epigenetics prions hereditary diseases and patents Similar integrated information is not available in textbooks or on the Internet

Biotechnological Inventions and Patentability of Life Andrea Stazi, 2015-05-29 In today s technological world biotechnology is one of the most innovative and highly invested in industries for research in the field of science This book analyses the forms and limitations of patent protection recognition for biotechnological inve

The Impact of Science and Technology on the Rights of the Individual Nicola Lucchi, 2016-06-14 The volume is devoted to the relevant problems in the legal sphere created and generated by recent advances in science and technology In particular it investigates a series of cutting edge contemporary and controversial case studies where scientific and technological issues intersect with individual legal rights The book addresses challenging topics at the intersection of communication technologies and biotech innovations such as freedom of expression right to health knowledge production Internet content regulation accessibility and freedom of scientific research

The Ethics of Cultural Appropriation James O. Young, Conrad G. Brunk, 2012-02-13 The Ethics of Cultural Appropriation undertakes a comprehensive and systematic investigation of the moral and aesthetic questions that arise from the practice of cultural appropriation Explores cultural appropriation in a wide variety of contexts among them the arts and archaeology museums and religion Questions whether cultural appropriation is always morally objectionable Includes research that is equally informed by empirical knowledge and general normative theory Provides a coherent and authoritative perspective gained by the collaboration of philosophers and specialists in the field who all participated in this unique research project

European Patent Law Duncan Matthews, Paul Torremans, 2023-10-04 This book provides a

comprehensive overview of European Patent Law It presents a critical analysis of the European patent law system and the proposed changes to it The book explores the strengths and weaknesses of the European Patent Convention and the interaction between the national and the European level as well as across borders **The Moral Dimensions of**

Intellectual Property Rights Steven Ang,2013-12-27 In a globalized world with globalizing IPRs where culturally assumed norms must be re examined this work has an urgent and important contribution to make Taking the main features of internationally mandated IPRs as a starting point it explores the mo *Pharmaceutical Biotechnology* Oliver Kayser,Rainer H. Müller,2006-03-06 With its focus on industrial pharmaceutical research written by international experts from the industry this book fills in a gap in the existing literature It reflects the combination of such pharmaceutical interests as drug delivery drug targeting quality and safety management drug approval and regulation patenting issues and biotechnology fundamentals Thus it provides practitioners in pharmaceutical biotechnology with all the relevant information from the shelf The first part offers a comprehensive survey and review of the rapidly increasing array of biopharmaceuticals derived from the molecular biological approaches now widely available This is followed by an extra section devoted to the very critical patenting and drug regulation issues The whole is rounded off by detailed monographs of biotechnologically developed drugs that are already on the market With a foreword of by Robert Langer Kenneth J Germeshausen Professor of Chemical and Biomedical Engineering at the Massachusetts Institute of Technology In 2002 he received the Charles Stark Draper Prize the highest recognition for an engineer Professor Langer is member of all three national academies the Institute of Medicine the National Academy of Engineering and the National Academy of Sciences The book attempts to provide a balanced view of the biotechnological industry and the number of experts from industry sharing their knowledge and experience with the audience gives the book an outstanding value All contributors provide with each chapter an up to date review on key topics in pharmaceutical biotechnology This work is not only a valuable tool for the industrial expert but also for all pharmacists and scientists from related areas who wish to work with biotech drugs *GenEthics and Religion* G. Pfeleiderer,G. Brahier,K. Lindpaintner,2010-05-21 Human gene and cell technology is a diverse and rapidly evolving field of research As genes represent the blueprint of an organism their analysis and manipulation is a challenge to our understanding of human nature Stem cell research genetic testing gene therapy therapeutic and reproductive cloning all these fields of application have been raising fundamental ethical and religious theological questions When does human life begin Should human beings be allowed to interfere with natural procreation or to manipulate the genome of their own species Is genetic engineering tantamount to playing God Based on the symposium GenEthics and Religion held in Basel Switzerland in May 2008 this volume examines the role religion can play in establishing ethical guidelines to protect human life in the face of rapid advances in biology and especially gene technology It does so in a multidisciplinary way with contributions by philosophers theologians human geneticists and several bioethicists representing the Christian Jewish Islamic and Buddhist perspectives The essays

illustrating a diversity of views and expressing the problems and self critical reflectiveness of religious ethicists have been brought up to date and discuss the importance of religious ethics in society's discourse on gene technology *The Myth of Moral Panics* Bill Thompson, Andy Williams, 2013-09-11 This study provides a comprehensive critique forensic historical and theoretical of the moral panic paradigm using empirically grounded ethnographic research to argue that the panic paradigm suffers from fundamental flaws that make it a myth rather than a viable academic perspective *Intellectual Property, Medicine and Health* Johanna Gibson, 2017-05-15 Intellectual Property Medicine and Health examines critical issues and debates including access to knowledge and medicinal products human rights and development innovations in life technologies and the possibility for ethical frameworks for intellectual property law and its application in public health The central question of trust and the beneficial interests of society in the use of products of intellectual property particularly in the fulfillment of the right to access medicinal products emerge as key to achieving meaningful access to knowledge in health and medicine and the realization of relevant and equitable use of the benefits of scientific research in all societies

Principles of Translational Science in Medicine Martin Wehling, 2021-07-15 Principles of Translational Science in Medicine From Bench to Bedside Third Edition provides an update on major achievements in the translation of research into medically relevant results and therapeutics The book presents a thorough discussion of biomarkers early human trials and networking models and includes institutional and industrial support systems It also covers algorithms that have influenced all major areas of biomedical research in recent years resulting in an increasing number of new chemical biological entities NCEs or NBEs as shown in FDA statistics New chapters include Translation in Oncology Biologicals and Orphan Drugs The book is ideal for use as a guide for biomedical scientists to establish a systematic approach to translational medicine and is written by worldwide experts in their respective fields Includes state of the art principles tools such as biomarkers and early clinical trials algorithms of translational science in medicine Provides in depth description of special translational aspects in the currently most successful areas of clinical translation namely oncology and immunology Covers status of institutionalization of translational medicine networking structures and outcomes at the level of marketing authorization

The Right to Bodily Integrity A.M. Viens, 2017-05-15 The right to bodily integrity has become a notable controversial issue within moral political and legal discourse and this right is regarded as one of the most precious rights that persons have alongside the right to life Recent scholarly debate has focused attention on the content scope and force of this right and has lead to the recognition that a better understanding of the nature of this right will contribute to determining whether and why a multitude of clinical and research activities in medical practice should be seen as permissible or impermissible The essays selected for this volume examine topics such as pregnancy and reproduction altering children's bodies transplantation controversial modifications and surgeries and experimentation and dead bodies This is the first collection of scholarly research articles to provide a comprehensive overview of the ethical and legal aspects of the right to bodily integrity and its

implications in theory and practice Microbial Resolution Gloria Chan-Sook Kim,2024-06-18 An interdisciplinary study charting the war against microbial futures leads to a new theory of contemporary vision and visibility In 1989 a group of U S government scientists met to discuss some surprising findings new diseases were appearing around the world and viruses that they thought long vanquished were resurfacing Their appearance heralded a future perpetually threatened by unforeseeable biological risks sparking a new concept of disease the emerging microbe With the Cold War nearing its end American scientists and security experts turned to confront this new enemy redirecting national security against its risky horizons In order to be fought emerging microbes first needed to be made perceptible but how could something immaterial unknowable and ever mutating be coaxed into visibility knowability and operability Microbial Resolution charts the U S led war on the emerging microbe to show how their uncertain futures were transformed into objects of global science and security Moving beyond familiar accounts that link scientific knowledge production to optical practices of visualizing the invisible Gloria Chan Sook Kim develops a theory of microbial resolution to analyze the complex problematic that arises when dealing with these entities what can be seen when there is nothing to see Through a syncretic analysis of data mining animal tracking technologies media networks computer modeled futures and global ecologies and infrastructures she shows how a visual impasse the impossibility of seeing microbial futures forms the basis for new modes of perceiving knowing and governing in the present Timely and thought provoking Microbial Resolution opens up the rich paradoxes irreconcilabilities and failures inherent in this project and demonstrates how these tensions profoundly animate twenty first century epistemologies aesthetics affects and ecologies **Who Owns You?** David Koepsell,2015-06-15 The 2nd Edition of Who Owns You David Koepsell s widely acclaimed exploration of the philosophical and legal problems of patenting human genes is updated to reflect the most recent changes to the cultural and legal climate relating to the practice of gene patenting Lays bare the theoretical assumptions that underpin the injustice of patents on unmodified genes Makes a unique argument for a commons by necessity explaining how parts of the universe are simply not susceptible to monopoly claims Represents the only work that attempts to first define the nature of the genetic objects involved before any ethical conclusions are reached Provides the most comprehensive accounting of the various lawsuits legislative changes and the public debate surrounding AMP v Myriad the most significant case regarding gene patents *Biotechnology and Genetics in Fisheries and Aquaculture* Boston Pickett,2019-07-01 The significance of Biotechnology in the field of fisheries and aquaculture is investigated in view of distributed writing Aquaculture is the cultivating and farming of oceanic life forms and as it is the quickest developing sustenance area on the planet with its expanding part for economy and safe nourishment system of nations Because of the proceeding with exhaustion of the fish stocks cultivating of amphibian life forms for example angle shellfish mollusks and sea going plants is presently a considerable worldwide industry providing a critical extent of the oceanic items devoured Deficiency in nourishment supply and high costs are the conceivable vital dangers later on and sea going items are the

important wellsprings of protein and fundamental supplement segments for worldwide sustenance security and wiping out ailing health Aquaculture additionally assumes an imperative part in country economies through the making of new occupations In these cases aquaculture yields should be improved a few overlay to meet the rising requests for angle and other sea going items in coming years Biotechnology choices appear to be great potential for expanding water social efficiency nourishment security and ecological quality around the world Therefore this book talked about the significance of biotechnology in aquaculture and arrangements for the ecologically stable utilize and administration of water social biotechnology in feasible improvement of fisheries

Law in Transition Ruth Buchanan,Peer Zumbansen,2014-12-01 Law has become the vehicle by which countries in the developing world including post conflict states or states undergoing constitutional transformation must steer the course of social and economic legal and political change Legal mechanisms in particular the instruments as well as concepts of human rights play an increasingly central role in the discourses and practices of both development and transitional justice These developments can be seen as part of a tendency towards convergence within the wider set of discourses and practices in global governance While this process of convergence of formerly distinct normative and conceptual fields of theory and practice has been both celebrated and critiqued at the level of theory the present collection provides through a series of studies drawn from a variety of contexts in which human rights advocacy and transitional justice initiatives are colliding with development projects programmes and objectives a more nuanced and critical account of contemporary developments The book includes essays by many of the leading experts writing at the intersection of development rights and transitional justice studies Notwithstanding the theoretical and practical challenges presented by the complex interaction of these fields the premise of the book is that it is only through engagement and dialogue among hitherto distinct fields of scholarship and practice that a better understanding of the institutional and normative issues arising in contemporary law and development and transitional justice contexts will be possible The book is designed for research and teaching at both undergraduate and graduate levels

ENDORSEMENTS An extraordinary collection of essays that illuminate the nature of law in today's fragmented and uneven globalized world by situating the stakes of law in the intersection between the fields of human rights development and transitional justice Unusual for its breadth and the quality of scholarly contributions from many who are top scholars in their fields this volume is one of the first that attempts to weave the three specialized fields and succeeds brilliantly For anyone working in the fields of development studies human rights or transitional justice this volume is a wake up call to abandon their preconceived ideas and frames and aim for a conceptual and programmatic restart Professor Balakrishnan Rajagopal Ford International Associate Professor of Law and Development Massachusetts Institute of Technology This superb collection of essays explores the challenges possibilities and limits faced by scholars and practitioners seeking to imagine forms of law that can respond to social transformation Drawing together cutting edge work across the three dynamic fields of law and development transitional justice and international

human rights law this volume powerfully demonstrates that in light of the changes demanded of legal research education and practice in a globalizing world all law is law in transition Anne Orford Michael D Kirby Chair of International Law and Australian Research Council Future Fellow University of Melbourne A terrific volume Leading scholars of human rights development policy and transitional justice look back and into the future What has worked Where have these projects gone astray or conflicted with one another Law will only contribute forcefully to justice development and peaceful sustainable change if the lessons learned here give rise to a new practical wisdom We all hope law can do better the essays collected here begin to show us how David Kennedy Manley O Hudson Professor of Law Director Institute for Global Law and Policy Harvard Law School *Biotech Innovations and Fundamental Rights* Roberto Bin, Sara Lorenzon, Nicola Lucchi, 2012-05-13 Biotechnology is a recognized research area that has increasingly advanced into new technologies and modern practices raising several legal ethical and regulatory issues The revolutionary speed of biotech innovations has had a significant impact on the protection of the rights of the individual Fundamental rights provide a framework within which the justification of limitations and restrictions to biotechnology innovations and research results have to be assessed The legal regulation of scientific research and scientific investigations impact more and more directly on the freedom of research and therapies as well as on the broad diffusion of knowledge Closely related is also the debated question of the technological manipulation of life and the boundary of scientific knowledge with regard to the topical question of genetic invention patents and their side effects on access to scientific information and health care opportunities Drawing on expertise from different disciplines the volume comprises invited papers and plenary presentations given at the conference entitled Biotech Innovations Fundamental Rights that took place on January 20 21 2011 at the Department of Juridical Sciences of the University of Ferrara Each contribution covers a different aspect of the legal and scientific issues involved in regulation of biotechnology In particular the focus of attention has been given to genetic research genetic data freedom of scientific research in genetics and biotech patents *Non-Conventional Copyright* Enrico Bonadio, Nicola Lucchi, 2018-10-26 Copyright law has always somehow managed to adapt to new technological and social developments as well as to new artistic and creative practices However every time such a development occurs the legitimate question arises if the system is adaptable or if the breakthrough is so gigantic that a new system needs to be elaborated In any case new scholarly reflections are needed in regular intervals and that is exactly the purpose of this fascinating edited collection by Enrico Bonadio and Nicola Lucchi on non conventional copyright exploring from various angles the copyright issues of all sorts of creations ranging from unconventional art forms new music and atypical cultural practices to new advances in technology not forgetting to investigate the delicate issues around copyright on illegal and immoral works Christophe Geiger University of Strasbourg France Copyright law constantly evolves to keep up with societal changes and technological advances Contemporary forms of creativity can threaten the comfortable conceptions of copyright law as creative people continually find new ways of

expressing themselves In this context Non Conventional Copyright identifies possible new spaces for copyright protection With current copyright law in mind the contributors explore if the law should be more flexible as to whether new or unconventional forms of expression including graffiti tattoos land art conceptual art and bio art engineered DNA sport movements jokes magic tricks DJ sets perfume making typefaces or illegal and immoral works deserve protection Vitally the contributors suggest that it may be time to challenge some of the basic tenets of copyright laws by embracing more flexible ways to identify protectable works and interpret the current requirements for protection Additionally some contributors cast doubts about whether copyright is the right instrument to address and regulate these forms of expression Contemporary in topic this thought provoking book will be essential reading for intellectual property law scholars practitioners and policymakers Creative people and those involved in the creative industries will also find this book an engaging read Contributors include E Bonadio S Burke C Cronin T Dagne T W Dornis F J Dougherty T M Gates M P George E Haber S Karapapa Y M King T Iverson N Lucchi G Mazziotti J McCutcheon L McDonagh M Maggiore P Mezei M Mimler A G Scaria C Y N Smith X Tang

New Frontiers in the Philosophy of Intellectual Property Annabelle Lever, 2012-07-05 Are intellectual property rights a threat to autonomy global justice indigenous rights access to lifesaving knowledge and medicines The essays in this volume examine the justification of patents copyrights and trademarks in light of the political and moral controversy over TRIPS the Agreement on Trade Related Aspects of Intellectual Property Rights Written by a distinguished international group of experts this book draws on the latest philosophical work on autonomy equality property ownership and human rights in order to explore the moral political and economic implications of property rights in ideas Written with an interdisciplinary audience in mind these essays introduce readers to the latest debates in the philosophy of intellectual property whether their interests are in the restrictions that copyright places on the reproduction of music and printed words or in the morality and legality of patenting human genes essential medicines or traditional knowledge

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