



Genomics and the Reimagining of Personalized Medicine

Richard Tutton

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Bas de Boer



Genomics And The Reimagining Of Personalized Medicine:

Genomics and the Reimagining of Personalized Medicine Dr Richard Tutton, 2014-10-28 Drawing on insights from work in medical history and sociology this book analyzes changing meanings of personalized medicine over time from the rise of biomedicine in the twentieth century to the emergence of pharmacogenomics and personal genomics in the 1990s and 2000s In the past when doctors championed personalization they did so to emphasize that patients had unique biographies and social experiences in the name of caring for their patients as individuals However since the middle of the twentieth century geneticists have successfully promoted the belief that genes are implicated in why some people develop diseases and why some have adverse reactions to drugs when others do not In doing so they claim to offer a new way of personalizing the prediction prevention and treatment of disease As this book shows the genomic reimagining of personalized medicine centres on new forms of capitalization and consumption of genetic information While genomics promises the ultimate individualization of medicine the author argues that personalized medicine exists in the imaginative gap between the problems and limits of current scientific practices and future prospects to individualize medical interventions A rigorous critical examination of the promises of genomics to transform the economics and delivery of medicine **Genomics and the Reimagining of Personalized Medicine** examines the consequences of the shift towards personalization for the way we think about and act on health and disease in society As such it will be of interest to scholars and students of the sociology of medicine and health science and technology studies and health policy

Personalized Medicine Richard Tutton, 2016-04-15 Drawing on insights from work in medical history and sociology this book analyzes changing meanings of personalized medicine over time from the rise of biomedicine in the twentieth century to the emergence of pharmacogenomics and personal genomics in the 1990s and 2000s In the past when doctors championed personalization they did so to emphasize that patients had unique biographies and social experiences in the name of caring for their patients as individuals However since the middle of the twentieth century geneticists have successfully promoted the belief that genes are implicated in why some people develop diseases and why some have adverse reactions to drugs when others do not In doing so they claim to offer a new way of personalizing the prediction prevention and treatment of disease As this book shows the genomic reimagining of personalized medicine centres on new forms of capitalization and consumption of genetic information While genomics promises the ultimate individualization of medicine the author argues that personalized medicine exists in the imaginative gap between the problems and limits of current scientific practices and future prospects to individualize medical interventions A rigorous critical examination of the promises of genomics to transform the economics and delivery of medicine **Genomics and the Reimagining of Personalized Medicine** examines the consequences of the shift towards personalization for the way we think about and act on health and disease in society As such it will be of interest to scholars and students of the sociology of medicine and health science and technology studies and

health policy **Routledge Handbook of Genomics, Health and Society** Sahra Gibbon, Barbara Prainsack, Stephen Hilgartner, Janelle Lamoreaux, 2018-04-17 The Handbook provides an essential resource at the interface of Genomics Health and Society and forms a crucial research tool for both new students and established scholars across biomedicine and social sciences Building from and extending the first Routledge Handbook of Genetics and Society the book offers a comprehensive introduction to pivotal themes within the field an overview of the current state of the art knowledge on genomics science and society and an outline of emerging areas of research Key themes addressed include the way genomic based DNA technologies have become incorporated into diverse arenas of clinical practice and research whilst also extending beyond the clinic the role of genomics in contemporary bioeconomies how challenges in the governance of medical genomics can both reconfigure and stabilise regulatory processes and jurisdictional boundaries how questions of diversity and justice are situated across different national and transnational terrains of genomic research and how genomics informs and is shaped by developments in fields such as epigenetics synthetic biology stem cell microbial and animal model research Chapters 13 and 28 of this book are freely available as downloadable Open Access PDFs at <http://www.taylorfrancis.com> under a Creative Commons Attribution Non Commercial No Derivatives CC BY NC ND 4.0 license Personalized Medicine Barbara Prainsack, 2017-12-19 Personalized Medicine investigates the recent movement for patients involvement in how they are treated diagnosed and medicated a movement that accompanies the increasingly popular idea that people should be proactive well informed participants in their own healthcare While it is often the case that participatory practices in medicine are celebrated as instances of patient empowerment or alternatively are dismissed as cases of patient exploitation Barbara Prainsack challenges these views to illustrate how personalized medicine can give rise to a technology focused individualism yet also present new opportunities to strengthen solidarity Facing the future this book reveals how medicine informed by digital quantified and computable information is already changing the personalization movement providing a contemporary twist on how medical symptoms or ailments are shared and discussed in society Provided by publisher *Can precision medicine be personal; Can personalized medicine be precise?* Y. Michael Barilan, Margherita Brusa, Aaron Ciechanover, 2022-02-10 People have always sought medical care that is tailored to every individual patient Alongside with the historical development of institutions of care the vision of personal and holistic care persisted Patient centred medicine interpersonal communication and shared decision making have become central to medical practice and services This evolving vision of personalized medicine is in the forefront of medicine creating debates among ethicists philosophers and sociologists of medicine about the nature of disease and the definition of wellness the impact on the daily life of patients as well as its implications on low income countries Is increased precision also an improvement on the personal aspects of care or erosion of privacy Do precise and personalized approach marginalize public health and can this care be personalized without attention to culture economy and society The book provides a multidisciplinary and interdisciplinary discussion of the ethos

and ethics of precision personal medicine involving scientists who have shaped the field in dialogue with ethicists social scientists and philosophers of science The contributing scholars come from all over the world and from different cultural backgrounds providing reflective perspectives of history of ideas critical theory and technology assessment together with the actual work done by pioneers in the field It explores issues such as global justice gender public health pharmaceutical industry international law and religion and explores themes discussed in relation to personalized medicine such as new born screening and disorders of consciousness This book will be of interest to academicians in bioethics history of medicine social sciences of medicine as well as general educated readers *Genomics, Populations, and Society* Dhavendra Kumar, Ruth Chadwick, 2024-11-12 *Genomics Populations and Society* a new volume in the Genomic and Precision Medicine in Clinical Practice series considers the vast and thorny web of ELSI topics in genomics from bioethics to healthcare applications healthcare economics genomic data management and population dynamics Emphasis is placed on the impact of rapid genomic advances on ethical sociocultural and lifestyle dimensions Healthcare and health economics topics include genomics and digital health genome editing and genomics and infectious disease management Legal issues related to data ownership equity access probity consent and confidentiality are also discussed in depth along with sociocultural topics such as community engagement consanguinity and more Here a range of readers from researchers to clinicians policy administrators lawyers economists and social scientists will discover carefully crafted synthesized discussions on ELSI topics in genomics to power new scientific advances and genomic medicine implementation Includes more than twenty four chapters across five integrated sections on scientific dilemmas in genomics genomic healthcare applications sociocultural aspects of genomics ethical aspects and global health genomics Presents fundamental issues tied to biosociety healthcare law and the bioeconomy as genomic medicine moves from research lab to the clinic Features chapter contributions from international experts

Personalised Medicine, Individual Choice and the Common Good Britta van Beers, Britta Chongkol van Beers, Sigrid Sterckx, Donna Dickenson, 2018-11-22 Asks whether personalised medicine is superior to one size fits all treatment Does it elevate individual choice above the common good *Reshaping Healthcare with Cutting-Edge Biomedical Advancements* Prabhakar, Pranav Kumar, 2024-05-06 Despite remarkable advancements in biomedical research the healthcare industry faces challenges in effectively translating these discoveries into tangible patient benefits Healthcare professionals often need help to keep pace with the rapid evolution of medical knowledge leading to variations in patient care and treatment outcomes Policymakers and educators may need more insight to leverage recent biomedical developments in shaping effective health policies and educational curricula Additionally ethical considerations surrounding emerging technologies like gene editing and Artificial Intelligence AI in healthcare pose complex dilemmas that require careful navigation *Reshaping Healthcare with Cutting Edge Biomedical Advancements* offers a comprehensive solution to these challenges By providing a detailed exploration of the latest breakthroughs in genomics regenerative therapies neurobiology AI and more this book equips

healthcare professionals with the knowledge needed to make informed decisions about patient care It also guides policymakers and educators offering insights into the implications of recent biomedical advancements for shaping health policies and educational programs Genomics and Society Dhavendra Kumar,Ruth Chadwick,2015-10-29 Genomics and Society Ethical Legal Cultural and Socioeconomic Implications is the first book to address the vast and thorny web of ELSI topics identified as core priorities of the NHGRI in 2011 The work addresses fundamental issues of biosociety and bioeconomy as the revolution in biology moves from research lab to healthcare system Of particular interest to healthcare practitioners bioethicists and health economists and of tangential interest to the gamut of applied social scientists investigating the societal impact of new medical paradigms the work describes a myriad of issues around consent confidentiality rights patenting regulation and legality in the new era of genomic medicine Addresses the vast and thorny web of ELSI topics identified as core priorities of the NHGRI in 2011 Presents the core fundamental issues of biosociety and bioeconomy as the revolution in biology moves from research lab to healthcare system Describes a myriad of issues around consent including confidentiality rights patenting regulation and more Genome Finland Ilpo Helén,Karoliina Snell,Heta Tarkkala,Aaro Tupasela,2024-06-27 Genome Finland tells a story of genomic medicine in Finland from the study of rare Finnish diseases in the 1960s and 1970s to the implementation of personalized medicine in the 2020s The main focus is on the 21st century the period after the Human Genome Project and on the establishment of new infrastructures to support genomic medicine such as biobanks The book opens up the reasoning and discussions as well as the settings and events through which Finnish medical genetics reached the top level of international biomedicine in the late 1990s biobanks and biobank research evolved during the 2000s and 2010s and large transnational public private partnership projects utilising massive amounts of genome and patient data started to dominate also Finnish research into the 2020s In particular Genome Finland examines and exposes the connections between biomedical science knowledge based economy and business and innovation policy in Finland during the past decades *The Biomedical Sciences in Society* Iain Crinson,2021-03-02 This textbook provides a comprehensive introduction to the interdisciplinary field of the Social Studies of Science and Technology SSST Over the past two decades the biomedical sciences have transformed our understanding of the relationship between the social and natural worlds while its promissory visions are seen to offer extraordinary opportunities for economic and social development But alongside these scientific innovations have emerged new and frequently unanticipated social political bioethical and legal dilemmas and challenges This cutting edge text explores post genomic developments in the field of pharmacogenomics and the prospects for a new precision or personalised medicine the potential of environmental epigenetics to reconfigure the boundaries of the social and natural worlds the emergence of an array of neuro disciplines seeking to identify the neural basis of a whole range of social and economic behaviours and the challenges of constructing a coherent and robust governance framework for the conduct of biomedical science research and innovation responsive to the

social and health needs of the whole population **Shifting Solidarities** Ine Van Hoyweghen,Valeria Pulignano,Gert Meyers,2020-06-23 *Shifting Solidarities* offers a comprehensive analysis of solidarity at a time when major social transformations have penetrated the heart of European societies disrupting markets and labour relations transforming social practices and affecting the moral infrastructure of European welfare states Factors such as the economic crisis migration digitalisation and climate change all contribute to a sense of emergency This volume considers how in times of crisis there are calls for solidarity by various new social and political actors and movements The contributions present a broad array of empirical work and critical scholarship zooming in on shifting solidarities in various domains of social life including work social policy health care religion family gender and migration This compelling volume provides a unique resource for understanding solidarity in contemporary Europe and will be a vital text for students and scholars across sociology social policy cultural studies employment labour markets and organisation studies migration studies and European studies *The Bloomsbury Companion to Contemporary Philosophy of Medicine* James A. Marcum,2016-12-15 A definitive and authoritative guide to a vibrant and growing discipline in current philosophy *The Bloomsbury Companion to Contemporary Philosophy of Medicine* presents an overview of the issues facing contemporary philosophy of medicine the research methods required to understand them and a trajectory for the discipline s future Written by world leaders in the discipline this companion addresses the ontological epistemic and methodological challenges facing philosophers of medicine today from the debate between evidence based and person centered medicine medical humanism and gender medicine to traditional issues such as disease health and clinical reasoning and decision making Practical and forward looking it also includes a detailed guide to research sources a glossary of key terms and an annotated bibliography as well as an introductory survey of research methods and discussion of new research directions emerging in response to the rapid changes in modern medicine Philosophy needs medicine Hillel Braude argues to become more relevant By showing how modern medicine provides philosophers with a rich source of material for investigating issues facing contemporary society *The Bloomsbury Companion to Contemporary Philosophy of Medicine* introduces the opportunities medicine offers philosophers together with the resources and skills required to contribute to contemporary debates and discussions Health Policy Iain Crinson,2024-12-30 This important new textbook provides comparative and critical analysis of health care policy from high income countries in Europe to low income developing countries in the Global South It integrates conceptual themes drawn from the fields of sociology policy analysis and political science to offer a unique combination of theory historical background and wider social commentary The book is divided into three sections Section I establishes the conceptual basis for the analysis of the health policymaking process including implementation Section II provides an introduction to the key elements of conducting a comparative health system s analysis including chapters that provide examples of performance analysis in both high and low income developing countries Section III examines key challenges now facing health policy makers that

include long term social care provision widening the scope of public health to address social inequalities in health outcome the integration of genomic medicine within a health care system and the establishment of an effective national pharmaceutical policy Each chapter includes case studies historical institutional contexts and summaries of key health policies Detailed and clearly written it is the ideal text for health and social science students in this expanding area of analysis

Healthy Embodiment Bas de Boer, 2025-05-21 This book provides a philosophical analysis of the experience of health and investigates how this experience is shaped by recent developments in medicine and public health It shows how phenomenological and Foucauldian approaches to health can be systematically integrated into a general account of healthy embodiment Many medical practitioners argue for a shift from curative to preventative medicine Technoscientific developments now enable us to track our health and provide more effective ways to live healthily This book argues that these developments shape how we experience our health of and others as well as the way in which we distinguish between health and illness Its starting point is that health is not so much an object with well defined boundaries that can be scrutinized scientifically but is better understood as an embodied experience The author uses phenomenology and the work of Foucault to develop a theory of healthy embodiment He argues that experiencing oneself as a healthy subject requires being made present as a healthy object by someone or something else He explores how the experience of health results from the interaction between being a subject and being an object and potentially involves challenging medical norms Healthy Embodiment will be of interest to researchers and graduate students working in phenomenology science and technology studies medical humanities bioethics and sociology of medicine

Revolutionizing the Healthcare Sector with AI Singla, Babita, Shalender, Kumar, Stamer, Katja, 2024-07-26 The healthcare sector is at a critical juncture facing the pressing need to integrate generative AI technologies responsibly Despite the promising benefits such as improved diagnostics personalized treatments and streamlined operations the adoption of AI in healthcare poses significant challenges These challenges include ethical dilemmas regulatory complexities and the need for governance frameworks to ensure the technology's responsible use Revolutionizing the Healthcare Sector with AI offers a comprehensive solution to these challenges It provides a deep dive into the adoption integration scalability and sustainability of generative AI in healthcare and a thorough analysis of governance ethical and regulatory issues By offering insights from researchers practitioners patients and policymakers this book is a platform for responsible AI adoption in healthcare

Biocitizenship Kelly E. Happe, Jenell Johnson, Marina Levina, 2018-08-21 A groundbreaking exploration of biocitizenship Citizenship has a long complex relationship with the body In recent years developments in biomedicine and biotechnology as well as a number of political initiatives grassroots efforts and public policies have given rise to new ways in which bodies shape the idea and practices of citizenship or what has been called biocitizenship This book the first collection of essays on the topic of biocitizenship aims to examine biocitizenship as a mode of political action and expand readers understanding of biopolitics Organized into four distinct sections covering topics

including AIDS drug testing on the mentally ill and force feeding prisoners Biocitizenship delves deep into the relationship between private and public identity politics and power Composed of pieces by leading scholars from a wide variety of disciplines Biocitizenship offers a clear and comprehensive discussion on biocitizenship biopolitics and groups that may be affected by this ever growing dialogue Authors address issues familiar to biopolitics scholarship such as gender sexuality class race and immigration but also consider unique objects of study such as incubators dead bodies and corporations Biocitizenship seeks to question who may count as a biological citizen and for what reasons an essential topic in an age in which the body and its health provide the conditions necessary for political recognition and agency *We, Other Utopians* Eva Šlesingerová, 2021-12-30 *We Other Utopians* is the first book to analyze the topics of genome editing recombinant DNA on the basis of ethnographic research in the post communist context The book focuses on the topics of human DNA editing and genome repair on two levels First inspired by texts analyzing the concept of life and the body in general it conceptually and analytically works with various approaches to engineered life and embodiments from the perspective of anthropology sociology and science and technology studies Second it presents an analysis of artificial life and biotechnological embodiments on concrete technologies genome editing recombinant DNA and biological computing The book explores the theme of genome editing based on ethnographic research conducted at a biochemical laboratory in the Czech Republic The fieldwork was carried out from 2017 to 2019 mainly in a lab focusing on DNA damages and genomic risk of complex diseases or genetic vulnerabilities like breast cancer infertility and ageing Recombinant DNA is understood here as the exchange of DNA strands to produce and design new nucleotide sequence arrangements to heal or enhance human bodies and health in the future The book analyzes various economies of hope hype expectations politics and poetics of false promises and better or worse predictions from the point of view of sociology anthropology and science and technology studies Cancer and the Politics of Care Linda Rae Bennett, Lenore Manderson, Belinda Spagnoletti, 2023-02-13 This timely volume responds to the epic impacts of cancer as a global phenomenon Through the fine grained lens of ethnography the contributors present new thinking on how social economic race gender and other structural inequalities intersect compound and complicate health inequalities Cancer experiences and impacts are explored across eleven countries Argentina Brazil Denmark France Greece India Indonesia Italy Senegal the United Kingdom and the United States The volume engages with specific cancers from the point of primary prevention to screening diagnosis treatment or its absence and end of life care *Cancer and the Politics of Care* traverses new theoretical terrain through explicitly critiquing cancer interventions their limitations and success the politics that drive them and their embeddedness in local cultures and value systems It extends prior work on cancer by incorporating the perspectives of patients and their families at risk groups and communities health professionals cancer advocates and educators and patient navigators The volume advances cross cultural understandings of care resisting simple dichotomies between caregiving and receiving and reveals the fraught ethics of care that must be negotiated in resource

poor settings and stratified health systems Its diversity and innovation ensures its wide utility among those working in and studying medical anthropology social anthropology and other fields at the intersections of social science medicine and health equity Solidarity in Biomedicine and Beyond Barbara Prainsack,Alena Buyx,2017-01-19 In times of global economic and political crises the notion of solidarity is gaining new currency This book argues that a solidarity based perspective can help us to find new ways to address pressing problems Exemplified by three case studies from the field of biomedicine databases for health and disease research personalised healthcare and organ donation it explores how solidarity can make a difference in how we frame problems and in the policy solutions that we can offer

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