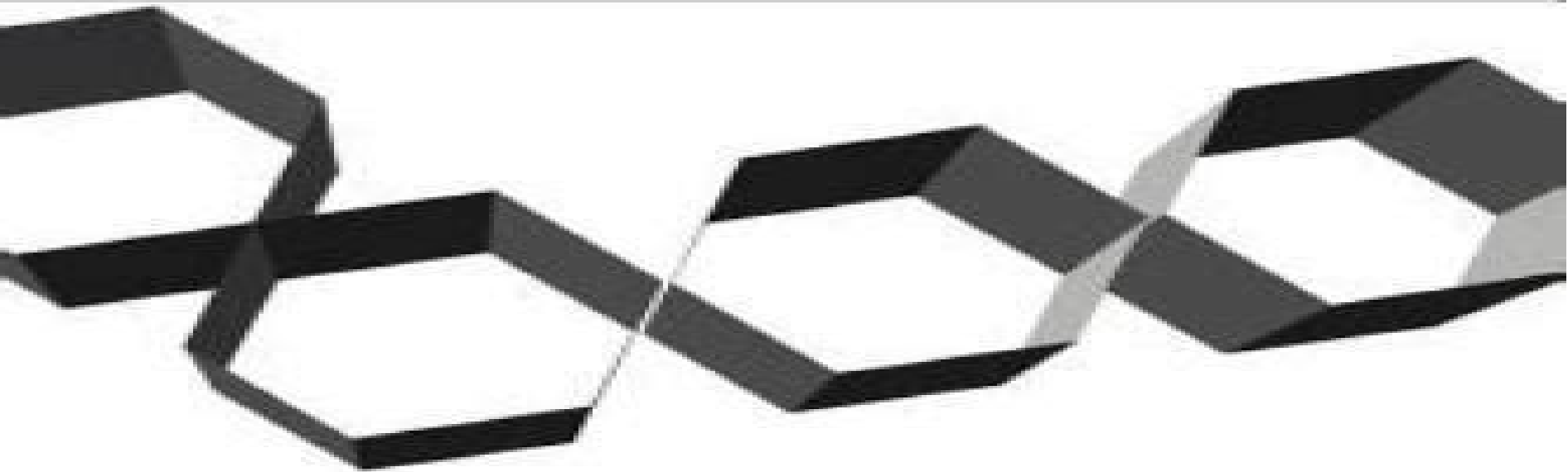


SAHOTRA SARKAR

# Genetics and Reductionism



Cambridge Studies in Philosophy and Biology

# Genetics And Reductionism

**David Wasserman, Robert Wachbroit**



## **Genetics And Reductionism:**

**Genetics and Reductionism** Sahotra Sarkar, 1998-10-13 With the advent of the Human Genome Project there have been many claims for the genetic origins of complex human behavior including insanity criminality and intelligence But what does it really mean to call something genetic This is the fundamental question that Sahotra Sarkar's book addresses The author analyses the nature of reductionism in classical and molecular genetics He shows that there are two radically different kinds of reductionist explanation genetic reduction as found in classical genetics and physical reduction found in molecular genetics This important book clarifies the meaning of the term genetic shows how molecular studies have affected genetics and provides the philosophical background necessary to understand the debates over the Human Genome Project It will be of particular interest to professionals and students in the philosophy of science the history of science and the social studies of science medicine and technology

Responsible Genetics A. Nordgren, 2013-03-14 This book addresses well known issues the ethical legal and social implications of human genetics but does so from an unusual perspective the perspective of the scientific community itself In distinction to what is common in the ELSI literature the book also discusses bioethical method A new kind of casuistry is developed on the basis of the empirical findings of cognitive semantics It will be of interest to philosophers bioethicists geneticists and policymakers

### **Reductionism in the Philosophy of Science**

Christian Sachse, 2013-05-02 In contemporary philosophy of science ontological reductionism or the claim that everything that exists in the world is something physical is the consensus mainstream position Contrary to a widespread belief this book establishes that ontological and epistemological reductionism stand or fall together The author proposes a new strategy of conservative theory reduction that operates by means of the construction of functional sub concepts that are coextensional with physical concepts Thus a complete conservative reductionism is established that vindicates both the indispensable scientific character of the special sciences and their reducibility to physics The second part of the book works this strategy out using the example of classical and molecular genetics

Promises and Limits of Reductionism in the Biomedical Sciences Marc H. V. Van Regenmortel, David L. Hull, 2002-08-02 Reductionism as a scientific methodology has been extraordinarily successful in biology However recent developments in molecular biology have shown that reductionism is seriously inadequate in dealing with the mind boggling complexity of integrated biological systems This title presents an appropriate balance between science and philosophy and covers traditional philosophical treatments of reductionism as well as the benefits and shortcomings of reductionism in particular areas of science Discussing the issue of reductionism in the practice of medicine it takes into account the holistic and integrative aspects that require the context of the patient in his biological and psychological entirety The emerging picture is that what first seems like hopeless disagreements turn out to be differences in emphasis Although genes play an important role in biology the focus on genetics and genomics has often been misleading The consensus view leads to pluralism both reductionist methods and a more integrative approach to

biological complexity are required depending on the questions that are asked An even balance of contributions from scientists and philosophers of science representing a unique interchange between both communities interested in reductionism

**Ethical Issues in the New Genetics** Michael Parker, 2017-11-22 This title was first published in 2003 Developments in genetic science are opening up new possibilities for human beings both the creation and the shaping of human life are now possible in the laboratory As these techniques develop questions are increasingly asked about how far everything that is scientifically possible should morally legally and socially be pursued Whilst much attention and policy making has focussed on the development of regulation of technologies affecting human reproduction regulation where plants and animals are concerned is much more limited In this book developments in genetics are addressed in the broad sense by an international range of contributors This includes not only issues such as eugenics and the modification of the human embryo but also the genetic modification of plants and animals in the pursuit of commerce agriculture and biomedical research This book is published in association with the Society for Applied Philosophy

**The Holism-Reductionism Debate** Gerard M. Verschuuren, 2017-02 This book is an introduction into the reductionism holism debate for aspiring as well as accomplished scientists It is intended for those working in or preparing for research in any scientific field ranging from the physical sciences to the life sciences to the behavioral sciences and the social sciences It is certainly not meant for people specialized in areas dealing with the specific issue of reductionism in a strict philosophical sense they won't learn much new from this book In other words this is not a monograph with specialized original research but rather an initiation into the debate more like an introductory textbook if you will

**Genetic Ethics** John Frederic Kilner, Rebecca Davis Pentz, Frank E. Young, 1997 This timely volume written by scholars and practitioners at the forefront of genetic research will help readers assess from a Christian perspective the ethical questions raised by today's genetic advancements

*Genetics and Society* Anne Kerr, 2004-06-24 Genetic science has advanced rapidly in recent years things happen now that might have seemed like science fiction only ten years ago *Genetics and Society* looks at the history of this science and the wide ranging impact it has had on contemporary society Using fascinating and cutting edge examples throughout Anne Kerr examines topics as diverse as the institutional structures that have grown up around the diagnosis and treatment of genetic disorders the media representation of genetic debates from designer babies to the genetic sources of alcoholism the politics of genetic decision making and the state regulation of both genetic research and the biomedicine industry Each chapter begins with a summary and a definition of key terms and ends with annotated notes on further reading meaning that it is as accessible for the layman as it is for the scientist The resulting student friendly text will be essential reading for anybody with an interest in genetic science and the impact it is having on society

*Genetics and Criminal Behavior* David Wasserman, Robert Wachbroit, 2001-01-15 In this 2001 volume a group of leading philosophers address some of the basic conceptual methodological and ethical issues raised by genetic research into criminal behavior The essays explore the complexities of

tracing any genetic influence on criminal violent or antisocial behavior the varieties of interpretations to which evidence of such influences is subject and the relevance of such influences to the moral and legal appraisal of criminal conduct The distinctive features of this collection are first that it advances public discussion while clarifying the debate about genetic research and criminal behavior second that it explains scientific controversies about behavioral genetics in lucid non technical terms third that it demonstrates how the possible findings on genetics and crime bear on fundamental issues of moral and criminal responsibility The volume will be of particular value to philosophers concerned with applied ethics especially bioethics behavioral geneticists psychologists legal theorists and criminologists Genetics and Philosophy Paul Griffiths, Karola Stotz, 2013-04-18 In the past century nearly all of the biological sciences have been directly affected by discoveries and developments in genetics a fast evolving subject with important theoretical dimensions In this rich and accessible book Paul Griffiths and Karola Stotz show how the concept of the gene has evolved and diversified across the many fields that make up modern biology By examining the molecular biology of the environment they situate genetics in the developmental biology of whole organisms and reveal how the molecular biosciences have undermined the nature nurture distinction Their discussion gives full weight to the revolutionary impacts of molecular biology while rejecting genocentrism and reductionism and brings the topic right up to date with the philosophical implications of the most recent developments in genetics Their book will be invaluable for those studying the philosophy of biology genetics and other life sciences *Ethics and the New Genetics* H. Daniel Monsour, 2007-05-26 Everyday new advances are being made in the science of human genetics Accompanying progress in this area however are new ethical dilemmas At a think tank sponsored by the Canadian Catholic Bioethics Institute an interdisciplinary group of ethicists geneticists physicians lawyers and theologians gathered in an attempt to apply some features of Bernard Lonergan's notion of functional specialization to ethical debates surrounding genetics Editor H Daniel Monsour has brought together a series of articles presented at this think tank The articles accomplish two tasks first they explore some of the advances in human genetic that continue to prompt ethical debate and outline the different stances on those issues second they examine those stances in the context of Roman Catholic moral and religious thought Timely innovative and wide ranging this collection will be of interest to bioethicists and philosophers as well as religious and Lonerganian scholars *Genetic Explanations* Sheldon Krimsky, Jeremy Gruber, 2013-02-26 No longer viewed by scientists as the cell's fixed master molecule DNA is a dynamic script that is ad libbed at each stage of development What our parents hand down to us is just the beginning Genetic Explanations urges us to replace our faith in genetic determinism with scientific knowledge about genetic plasticity and epigenetic inheritance **Cut-and-Paste Genetics** Sahotra Sarkar, 2021-09-15 The emergence of CRISPR Cas9 technology has revolutionized gene editing The Nobel prize for chemistry was awarded to Emmanuelle Charpentier and Jennifer Doudna the scientists responsible for its discovery in 2020 and it is considered the frontier of sophisticated medical science This technology contains the promise that both gene

therapy and eugenic control of human evolution is possible even plausible in our near future This book looks at these developments in the context of the history of previous social and scientific attempts at genetic editing and explores the policy and ethical challenges they raise It presents the case for altering the human germ line which contains and controls hereditary genetic information to eliminate a large number of genetic diseases controlled by a single or few genes while pointing out that gene therapy is likely to be ineffective for diseases with more complex causes In parallel it explores the possibility of genetic enhancement in a set of case studies But it also argues that in general genetic enhancement is ethically problematic and should be approached with caution Given the success of CRISPR Cas9 gene editing and the explosion of related techniques in practice it would be virtually impossible to ban germ line editing in our future A more useful goal is to put regulation in place with oversight that represents the interests of society That in turn requires an informed public discussion of these issues which is the intention of this book

#### **Thinking about Evolution** Rama S. Singh, 2001

Originally published in 2001 this is the second of two volumes published by Cambridge University Press in honour of Richard Lewontin This second volume of essays honours the philosophical historical and political dimensions of his work It is fitting that the volume covers such a wide range of perspectives on modern biology given the range of Lewontin's own contributions He is not just a very successful practitioner of evolutionary genetics but a rigorous critic of the practices of genetics and evolutionary biology and an articulate analyst of the social political and economic contexts and consequences of genetic and evolutionary research The volume begins with an essay by Lewontin on Natural History and Formalism in Evolutionary Genetics and includes contributions by former students post docs colleagues and collaborators which cover issues ranging from the history and conceptual foundations of evolutionary biology and genetics to the implications of human genetic diversity

**Molecular Models of Life** Sahotra Sarkar, 2007-01-26 Despite the transformation in biological practice and theory brought about by discoveries in molecular biology until recently philosophy of biology continued to focus on evolutionary biology When the Human Genome Project got underway in the late 1980s and early 1990s philosophers of biology unlike historians and social scientists had little to add to the debate In this landmark collection of essays Sahotra Sarkar broadens the scope of current discussions of the philosophy of biology viewing molecular biology as a unifying perspective on life that complements that of evolutionary biology His focus is on molecular biology but the overriding question behind these papers is what molecular biology contributes to all traditional areas of biological research Molecular biology described with some foresight in a 1938 Rockefeller Foundation report as a branch of science in which delicate modern techniques are being used to investigate ever more minute details and its modeling strategies apparently argue in favor of physical reductionism Sarkar's first three chapters explore reductionism defending it but cautioning that reduction to molecular interactions is not necessarily a reduction to genetics and does not support the claims of either hereditarianism or environmentalism The next sections of the book discuss function exploring how functional explanations pose a problem for

reductionism the informational interpretation of biology and how it interacts with reductionism and the tension between the unifying framework of molecular biology and the received framework of evolutionary theory The concluding chapter is an essay in the emerging field of developmental evolution exploring what molecular biology may contribute to the transformation of evolutionary theory as evolutionary theory takes into account morphogenetic development *Human Genes and Neoliberal Governance* Antoinette Rouvroy, 2007-12-13 Original and interdisciplinary this is the first book to explore the relationship between a neoliberal mode of governance and the so called genetic revolution Looking at the knowledge power relations in the post genomic era and addressing the pressing issues of genetic privacy and discrimination in the context of neoliberal governance this book demonstrates and explains the mechanisms of mutual production between biotechnology and cultural political economic and legal frameworks In the first part Antoinette Rouvroy explores the social political and economic conditions and consequences of this new perceptual regime In the second she pursues her analysis through a consideration of the impact of geneticization on political support of the welfare state and on the operation of private health and life insurances Genetics and neoliberalism she argues are complicit in fostering the belief that social and economic patterns have a fixed nature beyond the reach of democratic deliberation whilst the characteristics of individuals are unusually plastic and within the scope of individual choice and responsibility This book will be of interest to all students of law sociology and politics

**Ethical Challenges in Genomics Research** Paula Boddington, 2012-03-14 New developments in science and technology have resulted in shifting ethical challenges in many areas including in genomics research This book enables those who are involved in genomics research whether as researcher participant or policy maker to understand the ethical issues currently developing in this field and to participate actively in these important debates A clear account is given of how science and technology are outstripping the capacity of previous ethical regulations to cope with current issues together with practical illustrations of possible ways forward Key ethical ideas are presented drawing on the history of research regulation and on an account of the particular challenges arising in the field of genomics The book uses a grounded practical approach to explaining ethical concepts and issues which is geared to enhancing interdisciplinary dialogue Its broad approach to ethical issues includes relevant considerations from social psychology and there is a particular emphasis on understanding the problems of ethical regulations and practice in the institutional and social context of research A glossary and numerous text boxes explaining relevant terms and key ideas help to make the work an invaluable resource for both beginners and experts in the field

*Handbook of Statistical Genetics* David J. Balding, Martin Bishop, Chris Cannings, 2008-06-10 The Handbook for Statistical Genetics is widely regarded as the reference work in the field However the field has developed considerably over the past three years In particular the modeling of genetic networks has advanced considerably via the evolution of microarray analysis As a consequence the 3rd edition of the handbook contains a much expanded section on Network Modeling including 5 new chapters covering metabolic networks graphical

modeling and inference and simulation of pedigrees and genealogies Other chapters new to the 3rd edition include Human Population Genetics Genome wide Association Studies Family based Association Studies Pharmacogenetics Epigenetics Ethic and Insurance As with the second Edition the Handbook includes a glossary of terms acronyms and abbreviations and features extensive cross referencing between the chapters tying the different areas together With heavy use of up to date examples real life case studies and references to web based resources this continues to be must have reference in a vital area of research Edited by the leading international authorities in the field David Balding Department of Epidemiology Public Health Imperial College An advisor for our Probability Statistics series Professor Balding is also a previous Wiley author having written Weight of Evidence for Forensic DNA Profiles as well as having edited the two previous editions of HSG With over 20 years teaching experience he s also had dozens of articles published in numerous international journals Martin Bishop Head of the Bioinformatics Division at the HGMP Resource Centre As well as the first two editions of HSG Dr Bishop has edited a number of introductory books on the application of informatics to molecular biology and genetics He is the Associate Editor of the journal Bioinformatics and Managing Editor of Briefings in Bioinformatics Chris Cannings Division of Genomic Medicine University of Sheffield With over 40 years teaching in the area Professor Cannings has published over 100 papers and is on the editorial board of many related journals Co editor of the two previous editions of HSG he also authored a book on this topic Pilgrims in Medicine: Conscience, Legalism and Human Rights Thomas Faunce, 2005-02-01 This arrestingly novel work develops a normative synthesis of medical humanities virtue ethics medical ethics health law and human rights It presents an ambitious complex and coherent argument for the reconceptualisation of the doctor patient relationship and its regulation utilising approaches often thought of as being separate if not opposed virtue based ethics and universal human rights The case is argued gracefully with moderation but also with respect for opposing positions The book s analysis of the foundational professional virtue of therapeutic loyalty is an original departure from the traditional discourse of patient autonomy and the ethical and legal duties of the medical practitioner The central argument is not merely presented as bookends in the introduction and conclusion It is cogently represented in each chapter and section and measured against the material considered A remarkable feature is the use of aptly selected canonical literature to inform the argument These references run from Hesse s The Glass Bead Game in the abstract to Joyce s Ulysses in the conclusion They include excerpts from and discussion about Bergman Borges Boswell Tolstoy de Beauvoir Chekhov Dostoevsky Samuel Johnson Aristotle Orwell Osler Chaucer Schweitzer Shakespeare Thorwalds Kafka and William Carlos Williams Such references are used not merely as an artistic and decorative leitmotif but become a critical narrative element and another complex and rich layer to this work The breadth and quality of the references are testimony to the author s clear understanding of the modern law and literature movement This work provides the basis of a medical school course As many medical educators as possible should also be encouraged to read this work for the insights it will give them into using their own personal life narratives and those



of their patients to inform their decision making process This thesis will also be of value to the judiciary whose members are often called upon to make normatively difficult judgments about medical care and medical rules The human rights material leads to a hopeful view of an international movement toward a universal synthesis between medical ethics and human rights in all doctor patient relationships

**The Philosophy of Science** Sahotra Sarkar, Jessica Pfeifer, 2006 The first in depth reference to the field that combines scientific knowledge with philosophical inquiry this encyclopedia brings together a team of leading scholars to provide nearly 150 entries on the essential concepts in the philosophy of science The areas covered include biology chemistry epistemology and metaphysics physics psychology and mind the social sciences and key figures in the combined studies of science and philosophy Midwest

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