Genetic Medicine Journal

Clinical Genome Sequencing
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Psychological Considerations
Molecular Genetic Medicine
A Challenge to Medico-Legal Norms
The Genetic Basis of Common Diseases

BRONSON CORINNE

Clinical Genome Sequencing ConferenceSeries
A richly detailed history that “uncovers the challenges and limitations of our increasing reliance on genetic data in medical decision making” (Shobita Parthasarathy, author of Building Genetic Medicine). Medical geneticists began mapping the chromosomal infrastructure piece by piece in the 1970s by focusing on what was known about individual genetic disorders. Five decades later, their infrastructure had become an edifice for prevention, allowing expectant parents to test prenatally for hundreds of disease-specific mutations using powerful genetic testing platforms. In this book, Andrew J. Hogan explores how various diseases were “made genetic” after 1960, with the long-term aim of treating and curing them using gene therapy. In the process, he explains, these disorders were located in the human genome and became targets for prenatal prevention, while the ongoing promise of gene therapy remained on the distant horizon. In narrating the history of research that contributed to diagnostic genetic medicine, Hogan describes the expanding scope of prenatal diagnosis and prevention. He draws on case studies of Prader-Willi, fragile X, DiGeorge, and velo-cardio-facial syndromes to illustrate that almost all testing in medical genetics is inseparable from the larger—and increasingly “big data”–oriented—aims of biomedical research. Hogan also reveals how contemporary genetic testing infrastructure reflects an intense collaboration among cytogeneticists, molecular biologists, and doctors specializing in human malformation. Hogan critiques the modern ideology of genetic prevention, which suggests all pregnancies are at risk for genetic disease and should be subject to extensive genomic screening. He examines the dilemmas and ethics of the use of prenatal diagnostic information in an era when medical geneticists and biotechnology companies offer whole genome prenatal screening—essentially searching for any disease-causing mutation. Hogan’s analysis is animated by ongoing scientific and scholarly debates about the extent to which the preventive focus in contemporary medical genetics resembles the aims of earlier eugenicists. Written for historians, sociologists, and anthropologists of science and medicine, as well as bioethics scholars, physicians, geneticists, and families affected by genetic conditions, Life Histories of Genetic Disease is a profound exploration of the scientific culture surrounding malformation and mutation.
Ethnicity and Innovation in Tay-Sachs, Cystic Fibrosis, and Sickle Cell Disease MIT Press
A comparative study of genetic testing for breast and ovarian cancer in the United States and Britain that shows the importance of national context in the development and use of science and technology even in an era of globalization. In Building Genetic Medicine, Shobita Parthasarathy shows how, even in an era of globalization, national context is playing an important role in the development and use of genetic technologies. Focusing on the development and deployment of genetic testing for breast and ovarian cancer (known as BRCA testing) in the United States and Britain, Parthasarathy develops a comparative analysis framework in order to investigate how national “toolkits” shape both regulations and the architectures of technologies and uses this framework to assess the implications of new genetic technologies. Parthasarathy argues that differences in the

American and British approaches to health care and commercialization of research led to the establishment of different BRCA services in the two countries. In Britain, the technology was available through the National Health Service as an integrated program of counseling and laboratory analysis, and was viewed as a potentially cost-effective form of preventive care. In the United States, although BRCA testing was initially offered by a number of providers, one company eventually became the sole provider of a test available to consumers on demand. Parthasarathy draws lessons for the future of genetic medicine from these cross-national differences, and discusses the ways in which comparative case studies can inform policy-making efforts in science and technology.

Patterns and Prevention in Postwar Medical Genetics Yale University Press

Today's medical student needs to understand the principles of genetics rather than accumulate detailed facts. This text explains the essential themes of medical genetics whilst remaining in control of the developments in this subject.

Breast Cancer, Technology, and the Comparative Politics of Health Care ScholarlyEditions

The first broad survey of the role of genetics in public health, with emphasis on the new molecular genetics.

Historical, Geographic, Medical, Genetic, and Psychosocial Aspects RCOG

With Tay-Sachs, cystic fibrosis, and sickle cell disease as a powerful backdrop, the authors provide a glimpse into a diverse America where racial ideologies, cultural politics, and conflicting beliefs about the power of genetics shape disparate health care expectations and experiences.

American Science Oxford Monographs on Medical G

A CRITICAL NEW APPROACH FOR LEARNING AND THRIVING IN A FIELD OF CHANGE The scope and responsibilities of today's genetic counselors exceed the reasonable capacity of any one educational resource. While the field's first-year curriculum may be relatively fixed, the landscape of what comes after that -- a dizzying mix of practice, ethics, research design, and professional competencies -- is increasingly broad. Advanced Genetic Counseling offers an overdue extension of the field's core curriculum. From navigating ethical dilemmas and potential conflicts of interest to confronting the biases and patterns of thought that can limit counselors' interactions with clients, it prepares readers to face the profession's most challenging aspects with confidence. Drawing on techniques from psychotherapy, social psychology, and health behavior, Advanced Genetic Counseling is an essential resource for trainees and mid-career professionals. It offers a roadmap not just for addressing client needs, but for the future of genetic counseling education.

Genomic Citizenship BRILL

The most comprehensive one-volume guide of its kind, this indispensable reference work has been revised and expanded to present information on teratogenic agents in a ready-reference format. Included in this eleventh edition are nearly 300 newly listed agents, approximately half of which are developmental genes that cause syndromes or congenital defects. Also included are overviews of recent literature on clinical and experimental teratology, including important Japanese literature not easily available to researchers. As in previous editions, this volume emphasizes human data and covers pharmaceuticals, chemicals, environmental pollutants, food additives, household products, and viruses. A special effort has been made to obtain as much information as possible on drugs and other agents to which pregnant women may be exposed. Substances are listed alphabetically, and each entry briefly summarizes research procedures and results. In addition, a complete list of references is included for each agent.

Chromosome Abnormalities and Genetic Counseling Wiley-Blackwell

Molecular Genetic Medicine, Volume I, provides an overview of the progress in several of the most important areas of modern molecular genetics and medicine. The aim is to present a technical and historical picture of the concept that it is through a thorough understanding of genetics of all kinds of human diseases, even infectious diseases, that effective treatments will finally come. The book opens with a discussion of the origins and development of the Human Genome Project. This is followed by separate chapters on the development of immune-deficient mice as models for human hematopoietic disease; the application of genetic techniques for testing identity and relatedness of persons; and advances in recombinant DNA technology and their applications in drug discovery. The final chapter discusses the impact of molecular biology and molecular evolution on debates about the origin of humans, and about the origins both of the characteristics that they share with other animals and of those that make humans unique.

Questions for Board Review Academic Press

Clinical Ethics at the Crossroads of Genetic and Reproductive Technologies offers thorough discussions on preconception carrier screening, genetic engineering and the use of CRISPR gene editing, mitochondrial gene replacement therapy, sex selection, predictive testing, secondary findings, embryo reduction and the moral status of the embryo, genetic enhancement, and the sharing of genetic data. Chapter contributions from leading bioethicists and clinicians encourage a global, holistic perspective on applied challenges and the moral questions relating the implementation of genetic reproductive technology. The book is an ideal resource for practitioners, regulators, lawmakers, clinical researchers, genetic counselors and graduate and medical students. As the Human Genome Project has triggered a technological revolution that has influenced nearly every field of medicine, including reproductive medicine, obstetrics, gynecology, andrology, prenatal genetic testing, and gene therapy, this book presents a timely resource. Provides practical analysis of the ethical issues raised by cutting-edge techniques and recent advances in prenatal and reproductive genetics Contains contributions from leading bioethicists and clinicians who offer a global, holistic perspective on applied challenges and moral questions relating to genetic and genomic reproductive technology Discusses preconception carrier screening, genetic engineering and the use of CRISPR gene editing, mitochondrial gene replacement therapy, ethical issues, and more

Emery's Elements of Medical Genetics OUP USA

Genetics in Medicine, the official journal of the American College of Medical Genetics, has been accepted for inclusion in index Medicus. The outstanding editorial content and uniqueness of the journal, which is just beginning its fourth volume, makes it a necessary acquisition for both individuals and libraries. Genetics in Medicine, devoted to the clinical application of genetics, is a must read for physicians wishing to apply new genetic findings to their medical practice. And don't forget, ISI's Science Citation Index accepted Genetics in Medicine after only one year of publication. Topics covered in the journal include clinical genetics, biochemical genetics, cytogenetics, molecular genetics, common disease genetics, and genetic counseling.

Genomics and Society Academic Press

In this insiders account of university science in America, Barbara Migeon focuses on how an influx of new technologies empowered scientists to make groundbreaking discoveries on the nature of hereditary diseases. She begins her story with an account of how she began her research career before delving into a broader discussion of what scientists do, what they must deal with, and the changing face of biomedical science over the last half century. This is a fascinating, insightful and thought-provoking book, beautifully written by an excellent scientist, a pioneering female in a strongly male-centric field. Her personal history of this remarkable era of biomedical science is a must read for anyone males, females, scientists and non-scientists curious about the process of scientific discovery and progress toward gender equity. Her account shows how science is shaped by deep commitment and insights, complex human interactions, and public policy. Barbara Sollner-Webb. Professor Emerita, Department of Biological Chemistry, The Johns Hopkins University I was captivated by Migeons ability to synthesize the personal, political, scientific, and academic strands of her life over the past half-century. To her credit, this historian speaks forthrightly; while her research clearly has been a source of deep joy, she also exposes the institutional problems (including sexism). Her inclusion of selected material from a personal journal she kept over the years is a welcome addition to a book that offers a fresh perspective to scientists as well as non-scientists, men as well as women. Evelyn Torton Beck, Professor Emerita, Womens Studies, University of Maryland

The Science of Human Perfection John Wiley & Sons

A thoughtful new look at the entwined histories of genetic medicine and eugenics, with probing discussion of the moral risks of seeking human perfection

Using Genetic Information to Improve Health and Prevent Disease Johns Hopkins University Press+ORM

A leading geneticist explores what promises to be one of the most transformative advances in health and medicine in history Almost every week, another exciting headline appears about new advances in the field of genetics. Genetic testing is experiencing the kind of exponential growth once seen with the birth of the Internet, while the plummeting cost of DNA sequencing makes it increasingly accessible for individuals and families. Steven Lipkin and Jon Luoma posit that today’s genomics is like the last century’s nuclear physics: a powerful tool for good if used correctly, but potentially dangerous nonetheless. DNA testing is likely the most exciting advance in a long time for treating serious disease, but sequencing errors, complex biology, and problems properly interpreting genetic data can also cause life-threatening misdiagnoses of patients with debilitating and fatal genetic diseases. DNA testing can also lead to unnecessary procedures and significantly higher health-care costs. And just around the corner is the ability to cure genetic diseases using powerful gene-editing technologies that are already being used in human embryo research. Welcome to the Age of Genomes! The Age of Genomes immerses readers in true stories of patients on the frontier of genomic medicine and explores both the transformative potential and risks of genetic technology. It will inform anxious parents increasingly bombarded by offers of costly new prenatal testing products, and demonstrate how genetic technology, when deployed properly, can significantly improve the lives of patients who have devastating neurological diseases, cancer, and other maladies. Dr. Lipkin explains the science in depth, but in terms a layperson can follow.

Medical Genetics and Genomics Academic Press

Issues in Genetic Medicine / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Genetic Research. The editors have built Issues in Genetic Medicine: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Genetic Research in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Genetic Medicine: 2012 Edition has been produced by the world’s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Eighth Edition JHU Press

A respected resource for decades, the Guide for the Care and Use of Laboratory Animals has been updated by a committee of experts, taking into consideration input from the scientific and laboratory animal communities and the public at large. The Guide incorporates new scientific information on common laboratory animals, including aquatic species, and includes extensive references. It is organized around major components of animal use: Key concepts of animal care and use. The Guide sets the framework for the humane care and use of laboratory animals. Animal care and use program. The Guide discusses the concept of a broad Program of Animal Care and Use, including roles and responsibilities of the Institutional Official, Attending Veterinarian and the Institutional Animal Care and Use Committee. Animal environment, husbandry, and management. A chapter on this topic is now divided into sections on terrestrial and aquatic animals and provides recommendations for housing and environment, husbandry, behavioral and population management, and more. Veterinary care. The Guide discusses veterinary care and the responsibilities of the Attending Veterinarian. It includes recommendations on animal procurement and transportation, preventive medicine (including animal biosecurity), and clinical care and management. The Guide addresses distress and pain recognition and relief, and issues surrounding euthanasia. Physical plant. The Guide identifies design issues, providing construction guidelines for functional areas; considerations such as drainage, vibration and noise control, and environmental monitoring; and specialized facilities for animal housing and research needs. The Guide for the Care and Use of Laboratory Animals provides a framework for the judgments required in the management of animal facilities. This updated and expanded resource of proven value will be important to scientists and researchers, veterinarians, animal care personnel, facilities managers, institutional administrators, policy makers involved in research issues, and animal welfare advocates.

Reproductive Genetics Academic Press

June 15-16, 2017 London, UK Key Topics : Cancer genomics, Functional Genomics, Next Generation Sequencing, Biomarkers, Pharmacogenomics, Clinical Genomics, Micro RNA, mRNA Analysis, Bioinformatics in Genomics, Comparative Genomics, Plant Genomics, Genome Engineering, Microbial Genomics, Future trends in Genomics, Genome Medicine, Genomics Market, Proteomics, Human Genomics,

Issues in Genetic Medicine: 2013 Edition Cambridge University Press
Issues in Genetic Medicine / 2013 Edition is a ScholarlyEditions™ book that delivers timely, authoritative, and comprehensive information about Human Genomics. The editors have built Issues in Genetic Medicine: 2013 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Human Genomics in this book to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Genetic Medicine / 2013 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.
From Research to Clinical Application Oxford University Press
With Progress in Genomic Medicine: From Research to Clinical Application, celebrated author and human geneticist, Moyra Smith, provides a careful synthesis of the foundations, current trends, and translational challenges in genomic medicine, to clarify pathways forward and enable genomic medicine research and implementation across clinical settings and treatment development. Part I of Progress in Genomic Medicine addresses the history and growth of genetic medicine, with a discussion of key studies in syndrome delineations, inherited diseases, biochemical genetics, and chromosome abnormalities. Part II includes an overview of clinical applications made possible through genomic advances, with chapters on DNA sequencing for clinical genetic diagnosis, genotype-phenotype correlations in individuals and across populations, new-born screening for treatable genetic disorders, tumor and complex pathology genetics, pharmacogenetics, enzyme and protein replacement therapies, and gene and nucleotide-based therapies. Social, ethical, and public health aspects of applying genomic technologies, are included throughout. Here, Dr. Smith applies her experience and participation in field, across its major milestones, to put current research, clinical advances, and ongoing questions, in context. Traces the development of the field of genomic medicine, exploring key scientific advances and recent steps forward in clinical translation Considers the influence of genomic medicine on complex and monogenic pathology analysis, treatment plans, and therapeutics Ties recent research and clinical advances to their historical context
Moments of Truth in Genetic Medicine Academic Press
Issues in Genetic Medicine: 2013 EditionScholarlyEditions
Proceedings of 9th International Conference on Genomics and Pharmacogenomics 2017 Issues in Genetic Medicine: 2013 Edition
Raising hopes for disease treatment and prevention, but also the specter of discrimination and "designer genes," genetic testing is potentially one of the most socially explosive developments of our time. This book presents a current assessment of this rapidly evolving field, offering principles for actions and research and recommendations on key issues in genetic testing and screening. Advantages of early genetic knowledge are balanced with issues associated with such knowledge: availability of treatment, privacy and discrimination, personal decisionmaking, public health objectives, cost, and more. Among the important issues covered: Quality control in genetic testing. Appropriate roles for public agencies, private health practitioners, and laboratories. Value-neutral education and counseling for persons considering testing. Use of test results in insurance, employment, and other settings.