



Human Genetic Diversity: Functional Consequences for Health and Disease

Julian C. Knight

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The secrets of our genetic heritage are finally being unlocked. The massive scientific effort to sequence the human genome is in fact just the beginning of a long journey as the extraordinary genetic diversity that exists between individuals becomes clear. Work in this field is yielding profound insights into the wider implications for understanding biology, human health and history. It promises much: to understand our evolutionary origins, to define us as individuals, to predict our risk of disease and to more effectively understand, treat and prevent illness. Genetics can help us understand both rare inherited disorders and common multifactorial diseases like asthma, heart diseases and diabetes. Huge investments are being made and great advances have been achieved, but the challenges remain daunting. This book provides an authoritative overview of this topical and very rapidly advancing field of biomedical research.

Human Genetic Diversity provides a concise, authoritative overview of human genetic diversity. It documents the insights that human genetics have brought to an understanding of human evolution and history, focusing on the implications of human genetic diversity for disease susceptibility and treatment. The book describes the genetic basis for diseases such as HIV, AIDS, Crohn's disease, asthma and type I diabetes. It also examines the emerging field of pharmacogenomics and individualized medicine.

Human genetic variation has implications across a broad range of disciplines (both biological and medical) and this text neatly consolidates work in diverse fields to highlight common themes and principles. An accessible style and the extensive use of illustrations promote its relevance to a broad audience ranging from those interested in human and population genetics to molecular biologists, evolutionary biologists, biological anthropologists and individuals working in the health sciences and clinical medicine.

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