Record Nr. UNINA9910877600203321 Titolo Molecular approaches to human polygenic disease Chichester:: New York,: Wiley, 1987 Pubbl/distr/stampa **ISBN** 1-282-13790-5 9786612137907 0-470-51350-0 0-470-51351-9 Descrizione fisica 1 online resource (286 p.) Collana Ciba Foundation symposium:: 130 Altri autori (Persone) BockGregory CollinsGeralyn M Disciplina 616 616.042 Genetic disorders Soggetti Medical genetics Molecular genetics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "Symposium on Molecular Approaches to Human Polygenic Disease, Note generali held at the Ciba Foundation, London, 25-27 November 1986". Editors: Gregory Bock (organizer) and Geralyn Collins. Nota di bibliografia Includes bibliographies and indexes. Nota di contenuto MOLECULAR APPROACHES TO HUMAN POLYGENIC DISEASE; Contents; Participants; Introduction; Human gene mapping; Genetics of coronary heart disease and its risk factors; The LDL receptor: oligonucleotidedirected mutagenesis of the cytoplasmic domain; Apolipoproteins, quantitative I i poprotei n traits and mu It ifactorial hyperli pidaemia; Structure and evolution of human apolipoprotein genes: identification of regulatory elements of the human apolipoprotein Egene; General discussion Genetic architecture of inter-individual variability in apolipop rot ei n, I i pop rot ei n and lipid phenotypesUse of DNA polymorphisms of the apolipoprotein genes to study the role of genetic variation in the determination of serum lipid levels; Hypertension and the genetics of red cell membrane abnormalities; The molecular genetics of diabetes mellitus; Searching for major genes for psychiatric disorders; The

molecular genetics of HLA-related disorders; The human genome

sequence and the analysis of multifactorial traits

Gene therapy: efforts at developing large animal models for autologous bone marrow transplant and gene transfer with retroviral vectorsImplications of genetic research for control measures; Final general discussion; Chairman's summing-up; Index of contributors; Subject index

Sommario/riassunto

Many common human diseases have a multifactorial origin: they are influenced by a person's genetic predisposition as well as by factors in the environment. This volume deals with the application of recombinant DNA techniques to the identification of diseases that have more than one inherited component. Focus is on the polygenic factors responsible for coronary atherosclerosis. Several other disorders having a polygenic origin are also discussed, including hypertension, diabetes mellitus, psychiatric diseases, and autoimmune (HLA-related) disorders. Problems raised by the study of different fam