





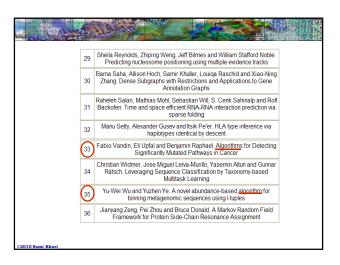




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## **Aalto University, Summer 2010 Computational Methods in Genomics: Introduction**







# Preface of the Seventh Edition

### Much has changed, however, since the last edition of this book. Completion of the HGP provides us with a catalogue of all human genes, their sequence, and an extensive, and still growing, database of human variation. Genomic information has stimulated the creation of powerful new tools that are changing human genetics research and medical genetics practice. We therefore have expanded the scope of the book to incorporate the concepts of "Personalized Medicine" into Genetics in Medicine by

providing more examples of how genomics is being used to identify the contributions made by genetic variation to disease susceptibility and treatment outcomes.

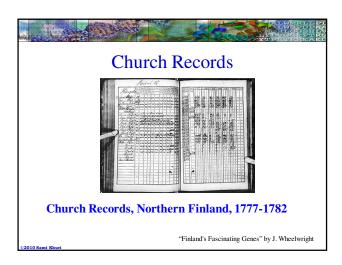
Finnish Disease Heritage Finnish Disease Heritage I: characteristics, causes, background Abstract This review of the Finnish Disease Heritage (FDH), a group of rare hereditary diseases that are over represented in Finland, includes the following topics: FDH characteristics, causes and background, primary theory, revis(it)ed theory, consanguineous marriages in Fin-land, internal migration of the 1500s, family series for further FDH studies, geography and population structure as a basis for FDH, geography of individual diseases, the structure of FDH families, family structure in individual diseases, Finnish gene mutations, linkage disequilibrium and haplotypes, age of gene mutations, frequencies of disease genes and carriers, and a short description of the possible future of FDH.

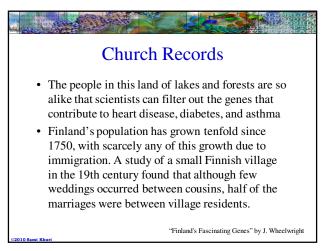
# Registers of the Lutheran Church

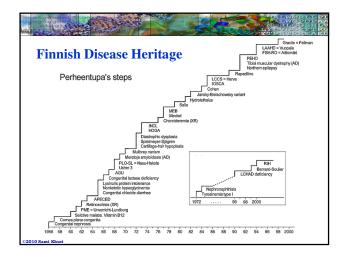
- Registers from the Lutheran Church are a trove of information for scientists hunting for clues to the inheritance of Finland's distinctive diseases.
- · Voluminous congregational records document baptisms, marriages, moves, and deaths throughout the country between the 1700s and the 1960s.
- Geneticists use the registers to trace ancestry back 6 to 10 generations.

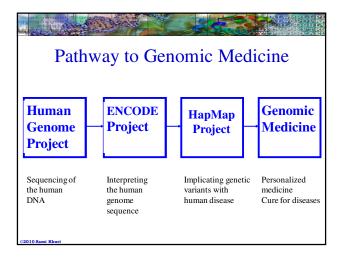
"Finland's Fascinating Genes" by J. Wheelwright

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