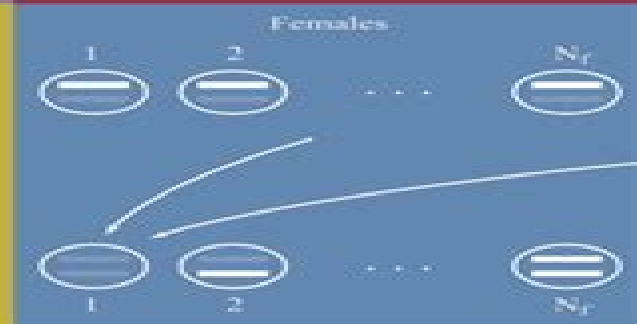
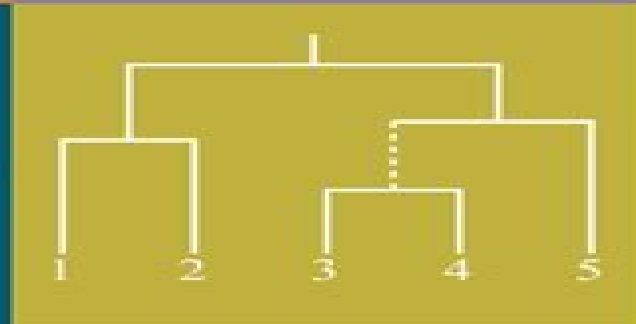
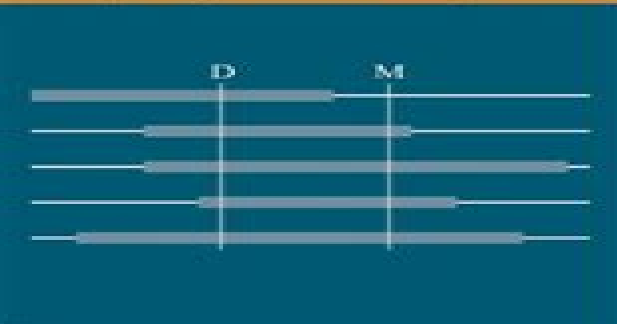
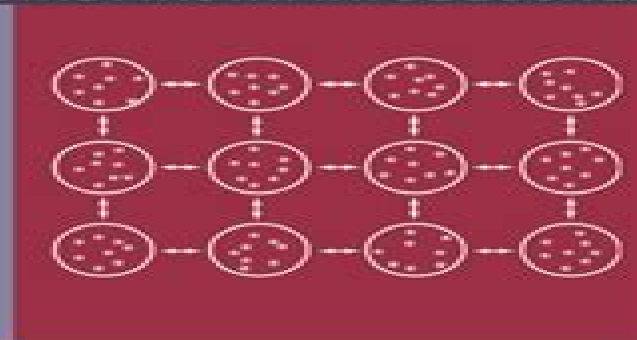
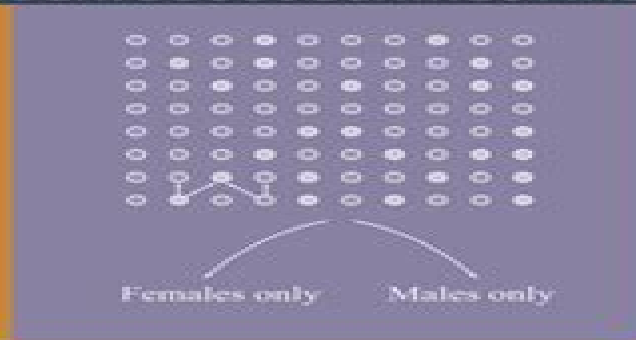
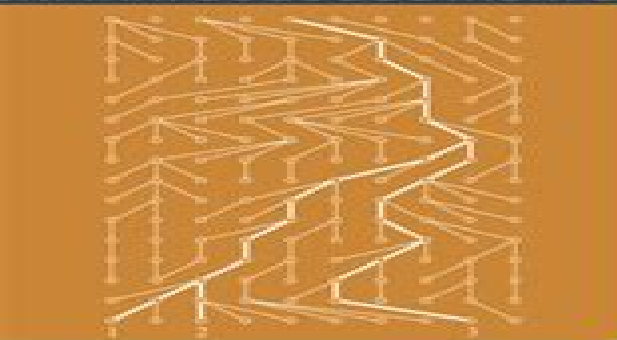


Gene Genealogies, Variation and Evolution

A PRIMER IN COALESCENT THEORY

Jotun Hein
Mikkel H. Schierup
Carsten Wiuf



Gene Genealogies Variation And Evolution A Primer In Coalescent Theory

Arturo Cuomo



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Gene Genealogies, Variation and Evolution: A primer in coalescent theory Jotun Hein, Mikkel Schierup, Carsten Wiuf, 2004-12-09 Authored by leading experts this seminal text presents a straightforward and elementary account of coalescent theory which is a central concept in the study of genetic sequence variation observed in a population Rich in examples and illustrations it is ideal for a graduate course in statistics population molecular and medical genetics bioscience and medicine and for students studying the evolution of human population and disease It is also an invaluable reference for bioscientists and statisticians in the pharmaceutical industry and academia Coalescent theory is a central concept in the study of genetic sequence variation that probabilistically describes the genealogy relating the sampled sequences In this text besides fulfilling the glaring need for such a book the authors present this theory in a straightforward and elementary manner and describe the statistical and computational methods used in modelling and analyzing genetic sequence variation Rich in examples and illustrations the book covers basic concepts complications arising from geographical structure and recombination before considering aspects of statistical inference based on these models The book ends with chapters on Gene Mapping which combines sequence variation data with phenotypic data such as disease to define areas of the genome where genes are responsible for the trait and Human Evolution a research area that is experiencing a renaissance due to the enormous amounts of data produced in molecular studies Authored by leading experts this seminal text presents a straightforward and elementary account of coalescent theory which is a central concept in the study of genetic sequence variation observed in a population It is highly suitable for a graduate course in statistics population molecular and medical genetics bioscience and medicine and students studying the evolution of human population and disease and will be an invaluable reference for bioscientists and statisticians in the pharmaceutical industry and academia an excellent and timely book that should appeal to a variety of people in genetics and applied mathematics Professor Montgomery Slatkin Berkeley the authors are outstanding experts in the field and the book is topical and timely Professor David Balding Imperial College Hein Schierup and Wiuf have written the first general book on the coalescent It is an engaging combination of clear mathematical derivation and real data examples Professor Joe Felsenstein University of Washington

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Handbook of Statistical Genomics David J. Balding, Ida Moltke, John Marioni, 2019-09-10 A timely update of a highly popular handbook on statistical genomics This new two volume edition of a classic text provides a thorough introduction to statistical genomics a vital resource for advanced graduate students early career researchers and new entrants to the field It introduces new and updated information on developments that have occurred since the 3rd edition Widely regarded as the reference work in the field it features new chapters focusing on statistical aspects of data generated by new sequencing technologies including sequence based functional assays It expands on previous coverage of the many processes between genotype and phenotype including gene expression and epigenetics as well as metabolomics It also examines population genetics and evolutionary models and inference with new chapters on the multi species coalescent admixture and ancient DNA as well as genetic association studies including causal analyses and variant interpretation The Handbook of Statistical Genomics focuses on explaining the main ideas analysis methods and algorithms citing key recent and historic literature for further details and references It also includes a glossary of terms acronyms and abbreviations and features extensive cross referencing between chapters tying the different areas together With heavy use of up to date examples and references to web based resources this continues to be a must have reference in a vital area of research Provides much needed timely coverage of new developments in this expanding area of study Numerous brand new chapters for example covering bacterial genomics microbiome and metagenomics Detailed coverage of application areas with chapters on plant breeding conservation and forensic genetics Extensive coverage of human genetic epidemiology including ethical aspects Edited by one of the leading experts in the field along with rising stars as his co editors Chapter authors are world renowned experts in the field and newly emerging leaders The Handbook of Statistical Genomics is an excellent introductory text for advanced graduate students and early career researchers involved in statistical genetics

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population level processes that shape genetic variation in bacterial populations and statistical methods of analysis of bacterial genetic data A how to of bacterial population genetics which covers an extremely large range of organisms Expanding area of science due to high throughput genome sequencing of bacterial pathogens Covers both fundamental approaches to analyzing bacterial population structures with conceptual background in bacterial population biology Detailed treatment of statistical methods Human Population Genomics Kirk E. Lohmueller, Rasmus Nielsen, 2021-03-13 This textbook provides a concise introduction and useful overview of the field of human population genomics making the highly technical and contemporary aspects more accessible to students and researchers from various fields Over the past decade there has been a deluge of genetic variation data from the entire genome of individuals from many populations These data have allowed an unprecedented look at human history and how natural selection has impacted humans during this journey Simultaneously there have been increased efforts to determine how genetic variation affects complex traits in humans Due to technological and methodological advances progress has been made at determining the architecture of complex traits Split in three parts the book starts with the basics followed by more advanced and current research The first part provides an introduction to essential concepts in population genetics which are relevant for any organism The second part covers the genetics of complex traits in humans The third part focuses on applying these techniques and concepts to genetic variation data to learn about demographic history and natural selection in humans This new textbook aims to serve as a gateway to modern human population genetics research for those new to the field It provides an indispensable resource for students researchers and practitioners from disparate areas of expertise **Brenner's Encyclopedia of Genetics** Stanley Maloy, Kelly Hughes, 2013-03-03 The explosion of the field of genetics over the last decade with the new technologies that have stimulated research suggests that a new sort of reference work is needed to keep pace with such a fast moving and interdisciplinary field Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set builds on the foundation of the first edition by addressing many of the key subfields of genetics that were just in their infancy when the first edition was published The currency and accessibility of this foundational content will be unrivalled making this work useful for scientists and non scientists alike Featuring relatively short entries on genetics topics written by experts in that topic Brenner's Encyclopedia of Genetics Second Edition Seven Volume Set provides an effective way to quickly learn about any aspect of genetics from Abortive Transduction to Zygotes Adding to its utility the work provides short entries that briefly define key terms and a guide to additional reading and relevant websites for further study Many of the entries include figures to explain difficult concepts Key terms in related areas such as biochemistry cell and molecular biology are also included and there are entries that describe historical figures in genetics providing insights into their careers and discoveries This 7 volume set represents a 25% expansion from the first edition with over 1600 articles encompassing this burgeoning field Thoroughly up to date with many new topics and subfields covered that were in their infancy or not in existence at the time of the first

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