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. Authored by leading experts, and rich in examples and illustrations, *Gene Genealogies, Variation and Evolution* is highly suitable for a graduate course in statistics; population, molecular and medical genetics; and for bioscience and medicine and 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.

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