



**FIGURE 25.24.** Growth affects the shape of gene genealogies and thereby affects the distribution of variants on alleles sampled from the population. The impact of demography on the shape of the gene genealogy can be seen using different kinds of genetic markers. Here three examples of genealogies are shown from a simulation of a rapidly growing population. The genealogy tends to show multiple deep branches, and in consequence the distribution of microsatellite allele sizes is relatively even.

25.24, adapted from Reich D.E. et al., *Proc. Natl. Acad. Sci.* **95**: 8119–8123, © 1998 National Academy of Sciences, U.S.A.