

**FIGURE 25.23.** A portion of the Y chromosome does not recombine. (*A*) Human chromosomes showing an example of the X chromosome (*blue*) and the Y chromosome (*pink*). A long stretch of the Y-chromosome DNA sequence shares a single genealogical history, so the many mutations that have occurred throughout the sequence help to reveal the single genealogy. (*B*) A portion of the genealogy of the Y chromsome, based on a large number of mutations that occur sufficiently infrequently in human evolution that they can be considered effectively unique.

25.23, illustration, adapted from Underhill P.A. et al., Nat. Genet. 26: 358–361, © 2000 Macmillan, www.nature.com

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