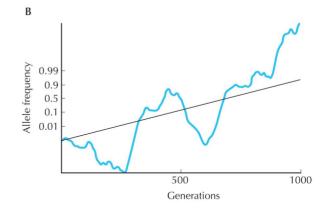
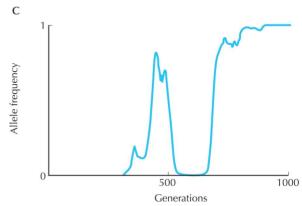


**FIGURE 17.17.** In the long run, the rate of increase of an allele depends on its geometric mean fitness. (*A*) In this example, the fitness of allele P relative to Q fluctuates randomly, with a geometric mean 1.01. (*B*) The ratio of allele frequencies, on a logarithmic scale. An allele with a constant advantage of s = 0.01 would increase steadily, with a frequency increasing as a straight line on this scale. The actual allele frequency fluctuates greatly, but in the long term increases at a rate given by s = 0.01. (*C*) Allele frequency on the original scale.





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