

**FIGURE 28.21.** The probability that a gene will leave no descendants, Q, increases toward 1 if its average fitness is not greater than 1 ( $\overline{k} = 0.8$ , 1). If the fitness is greater than 1, then the probability of loss converges to a value less than 1. For fitness  $\overline{k} = 1.2$ , Q tends to 0.68, so that there is a 32% chance that the gene leaves some descendants.

Evolution © 2007 Cold Spring Harbor Laboratory Press