



FIGURE 18.2. The probability of survival of an allele that increases fitness by $s = 10\%$ plotted against the number of copies, n . One copy has a chance of $\sim 2s = 20\%$ of surviving, and survival is almost certain once there are more than about 20 copies. The chance of survival depends on $n * s$, so that the graph has the same shape with weaker selection coefficients. For example, with $s = 1\%$, survival is almost assured with more than 200 copies.