



**FIGURE 18.8.** (A) The distribution of allele frequencies in a balance between mutation and random drift, from Wright's formula,  $4N_e\mu = 4N_e\nu = 1/2, 2, 8$  (purple, blue, and red, respectively). (B) The distribution with selection favoring heterozygotes. Fitnesses of QQ:PQ:PP are  $1 - sp_e:1:1 - sq_e$ , with selection tending to maintain a polymorphism with  $p_e = 0.3$  (see Box 17.1).  $4N_e\mu = 4N_e\nu = 1/2$  and  $N_e s = 2, 8, 32$  (purple, blue, and red, respectively).