



**FIGURE 1.33.** William E. Castle showed the effect of selection on coat color through experiments on hooded rats. Instead of a 3:1 ratio, they demonstrated a graded series, caused by variation of expression of the *hooded* gene. (Top) Selection for white coat. (Bottom) Selection for dark coat.

1.33, Reproduced from Castle W.E. et al., 1914, *Piebald rats and selection/An experimental test of the effectiveness of selection and of the theory of gametic purity in Mendelian crosses*, Plate 1 (facing p. 56), The Carnegie Institute of Washington, Washington, D.C., courtesy CSHL Library and Archives