



FIGURE 14.20. A classic example of cryptic genetic variation involves the venation pattern of *Drosophila melanogaster*. (A) The gap in a cross-vein generated by exposure of *D. melanogaster* pupae to a brief heat shock. (B) The response to selection for increased expression of this phenotype. (C) According to the threshold model, there is an underlying propensity to express gaps in venation. After a heat shock, flies with propensity greater than the threshold HS express the phenotype (yellow area), whereas only those above the threshold N express it under normal conditions. (D) Selection increases the propensity, so that the cross-veinless phenotype is seen even under normal conditions (blue area).

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