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Representation of different scaling affects in *Drosophila melanogaster*. Like most animals, the size of individual *Drosophila* appendages scale with overall body size in response to various environmental perturbations. For example, poor diet produces smaller flies in which all body parts scale proportionally compared to wildtype (the two flies in the top row). A single gene mutation has been discovered in which this scaling is disrupted, uncoupling the size of the skeletal muscle from that of other organs and resulting in small overall body size and that have disproportionately reduced abdomens (fly on bottom row). Image courtesy of Xueyang Pan. See Moss-Taylor *et al.* pp. 1447–1464.