**FIGURE 11.3.** (A) (Top) A wild-type larvae with schematic of gene expression patterns (Ubx, blue; abdA, yellow; AbdB, brown). Lower larvae illustrate the homeotic transformation in segment identity that occurs in null alleles of Ubx, abdA, and AbdB. In all cases, the total number of segments is unchanged, but segment identity is altered. (B) Antibody staining reveals Hox protein distribution in wild-type embryos (blue arrows point to the boundary between T2 and T3). By about mid-embryogenesis (top two embryos), Ubx protein is detected in T3 and throughout most of the abdomen. Bottom embryo (ventral view) shows the simultaneous detection of four different Hox gene protein products (Scr, black; Antp, red; Ubx, blue; AbdB, brown). Note the sequential expression of the proteins along the anteroposterior axis of the embryo.


*Evolution* © 2007 Cold Spring Harbor Laboratory Press