

FIGURE 11.14. In grasshopper embryos Distal-less protein (*red* staining in all panels) is expressed in the appendages of the head, thorax, and the first abdominal segment. The *white arrow* in *A* points to the DII-expressing pleuropod appendage, which is part of the A1 segment. As in *Drosophila*, *Ubx* in grasshopper embryos is expressed throughout the entire abdomen during the time that appendages are first formed. Fluorescent double labeling for DII protein (*red* in *B* and *D*) and Ubx protein (*green* in *C* and *D*) shows that *DII* expression in the A1 appendage occurs despite the expression of Ubx in these same cellIs (overlap of *green* and *red* creates the *yellow* color seen in *D*), and thus *Ubx* does not appear to repress *DII* in grasshoppers.

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