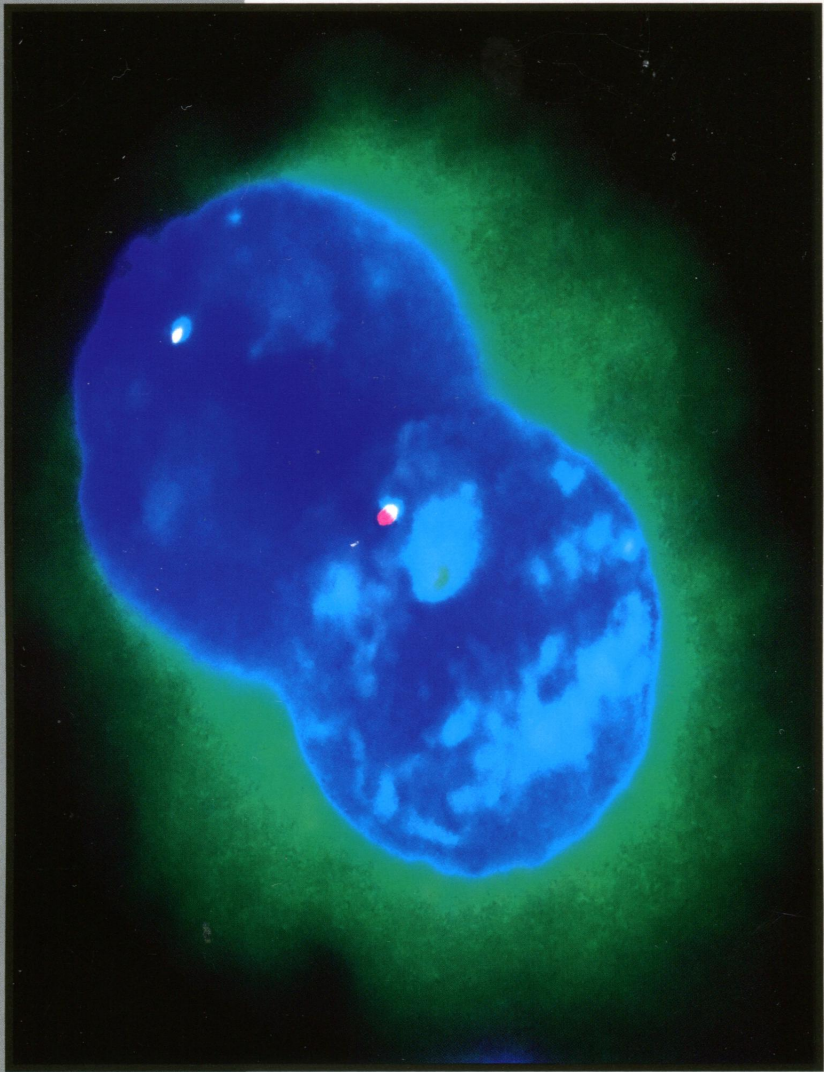


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Cover photograph (Copyright © 2014, American Society for Microbiology. All rights reserved.) Representative immunofluorescence and fluorescent *in situ* hybridization codetection of sites of double-strand DNA breaks (DSBs), indicated by γ -H2AX staining (green), and the *Agouti* locus (red). Shown is a single zygote analyzed 6 h after injection of TALEN-*Agouti* paired mRNAs. The cytoplasm (hazy green) surrounds the two pronuclei (DAPI [4',6-diamidino-2-phenylindole] stained blue). Each pronucleus contains a single focus of overlapping red and green signals that correspond to sites of TALEN-induced DSBs within the *Agouti* locus. (See related article on p. 1649.)