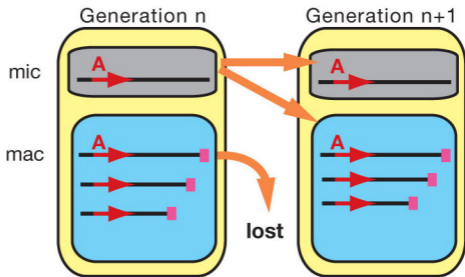


a. Wild type autogamy



b. Transgene-induced deletion upon autogamy

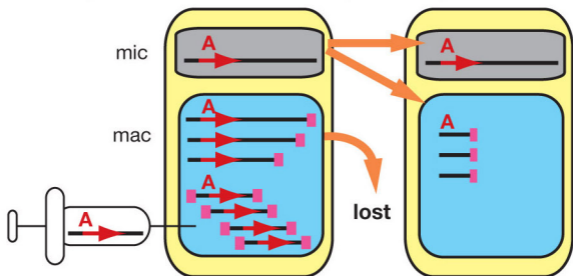


Figure 6. Transgene-induced Deletions in *Paramecium*

(a) In the wild type, the *A* gene (red arrows) sits near the heterogenous ends of a macronuclear chromosome; the pink boxes = macronuclear telomeres. The rearrangement pattern of the micronuclear chromosome is faithfully reproduced from one generation to the next. (b) The introduction of a large copy number of *A* transgenes into the maternal macronucleus can induce the complete deletion of the endogenous *A* gene in sexual progeny, when a new macronucleus develops from the wild-type germ line. The new macronuclear telomeres are positioned just upstream of the *A* gene.