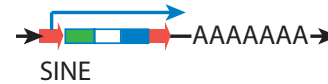
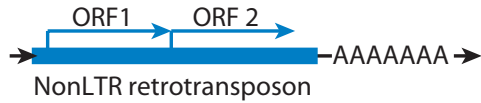
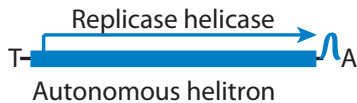
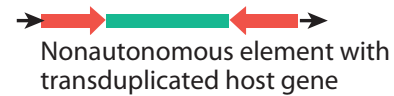
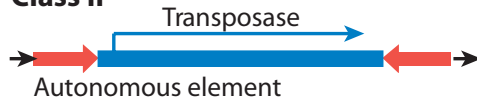


TE types

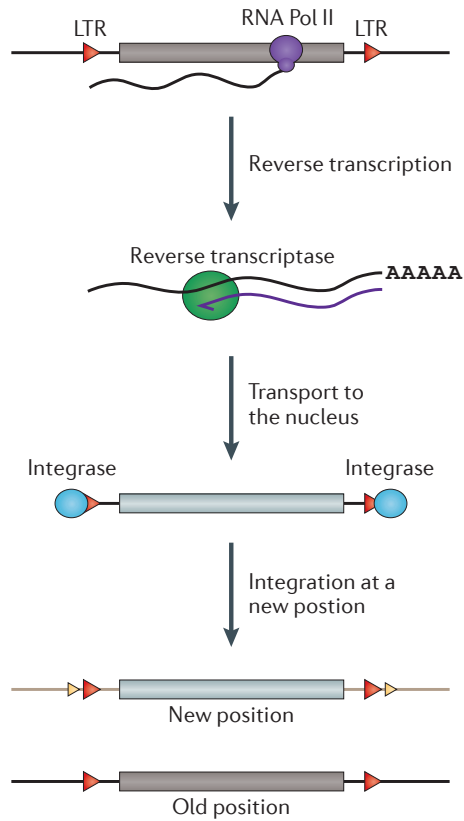
Class I



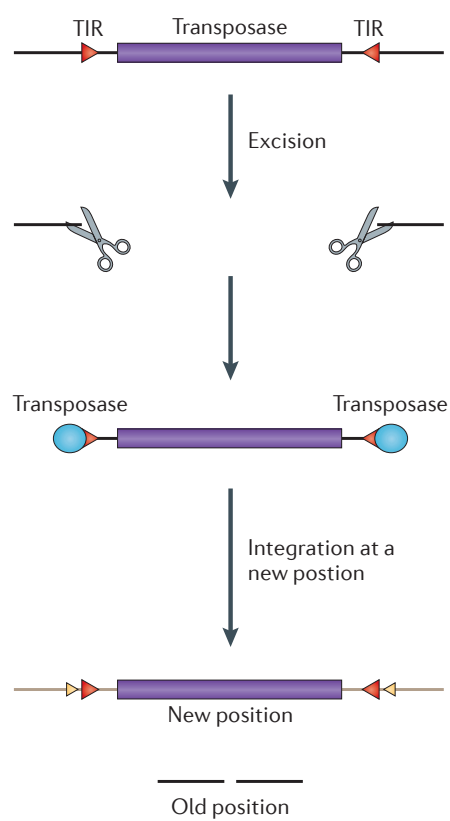
Class II



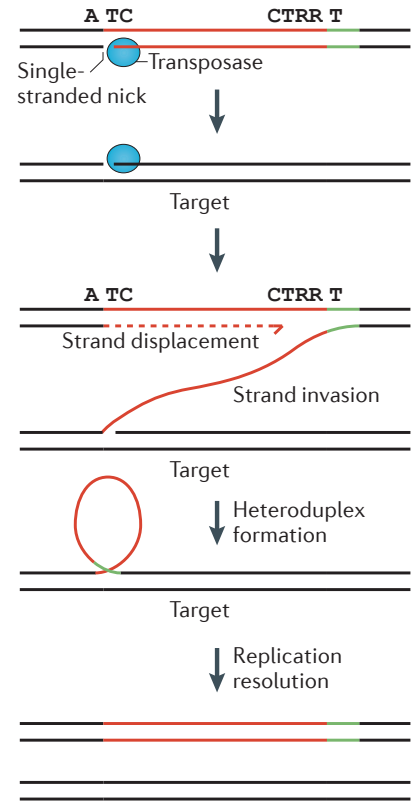
Class I element



Class II element

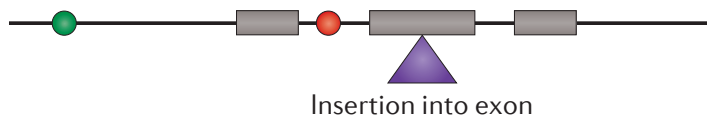


Helitron

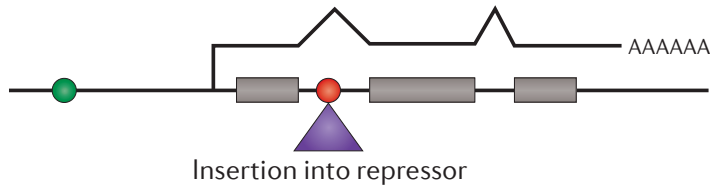
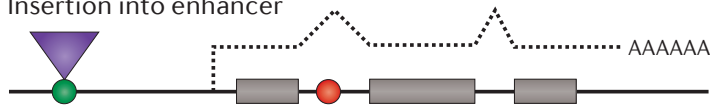


TE impacts on genes

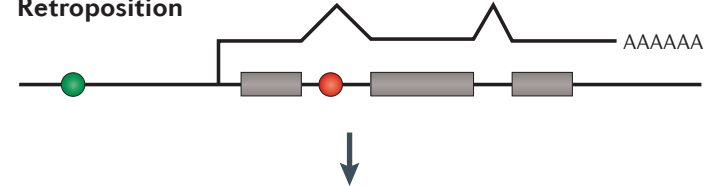
Insertional mutagenesis



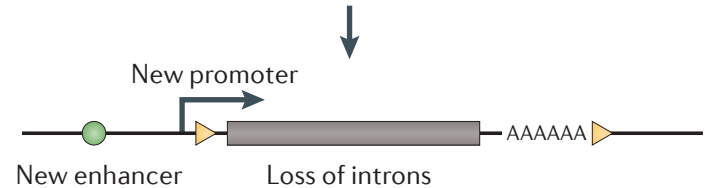
Insertion into enhancer



Retroposition



Reverse transcription and integration



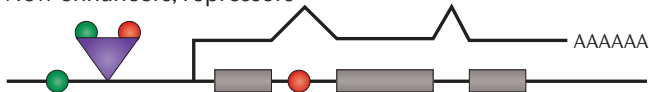
or



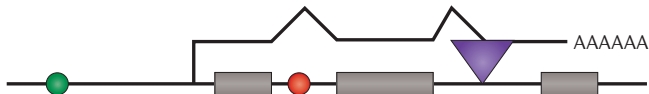
TE impacts on genes

Introduction of new information

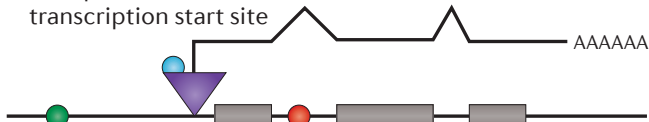
New enhancers, repressors



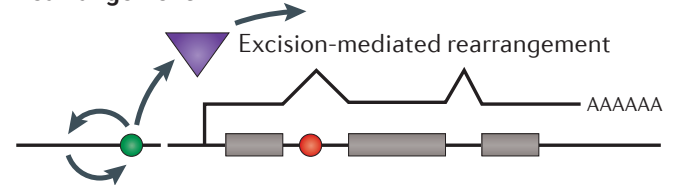
New splice sites



New promoter or transcription start site

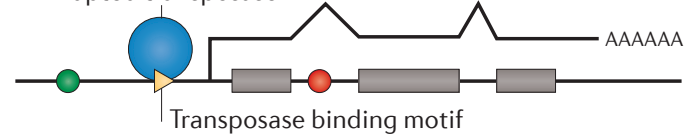


Rearrangement



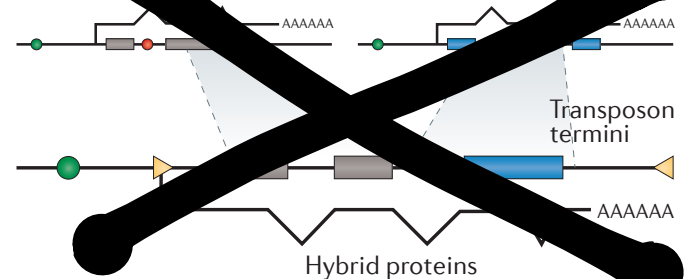
Transposase exaptation

Exapted transposase



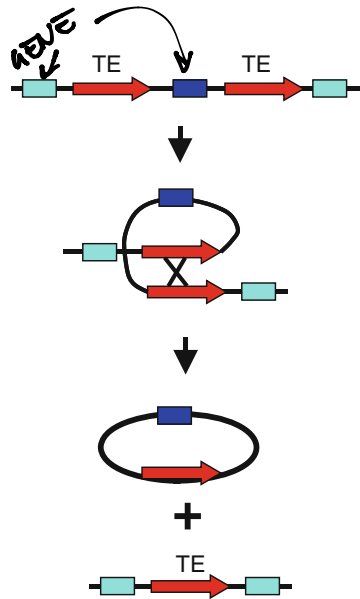
Transposase binding motif

Transposition

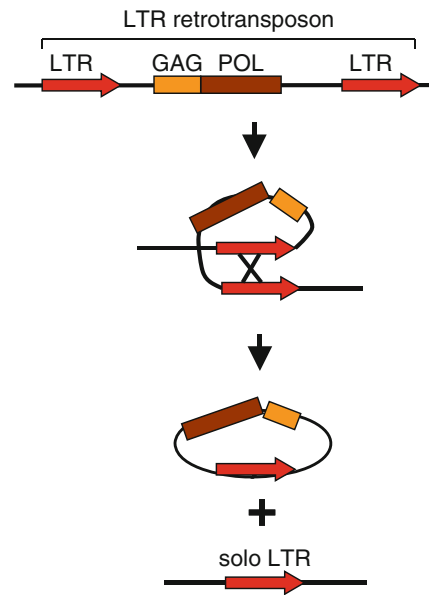


TE impacts on genes

a Inter-element recombination

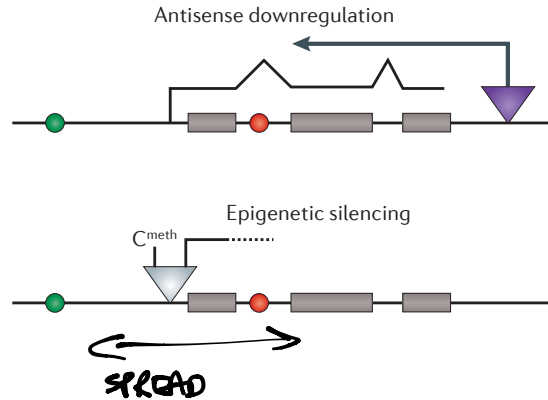


b Intra-element recombination

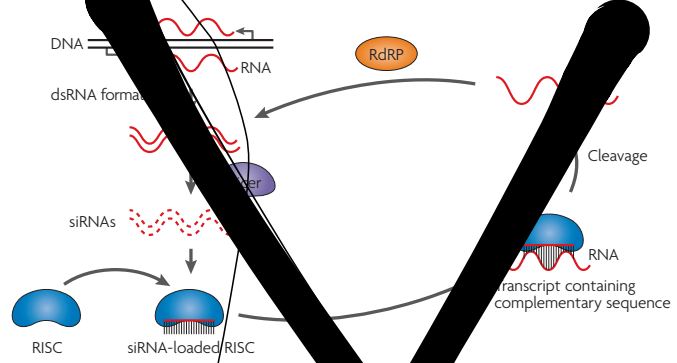


TE impacts on genes

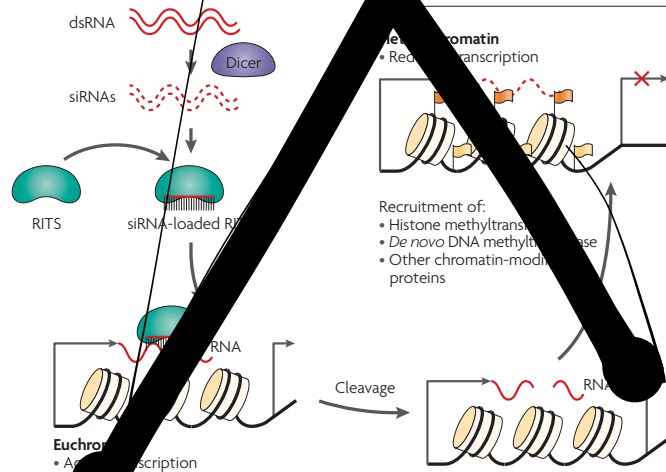
Epigenetic regulation



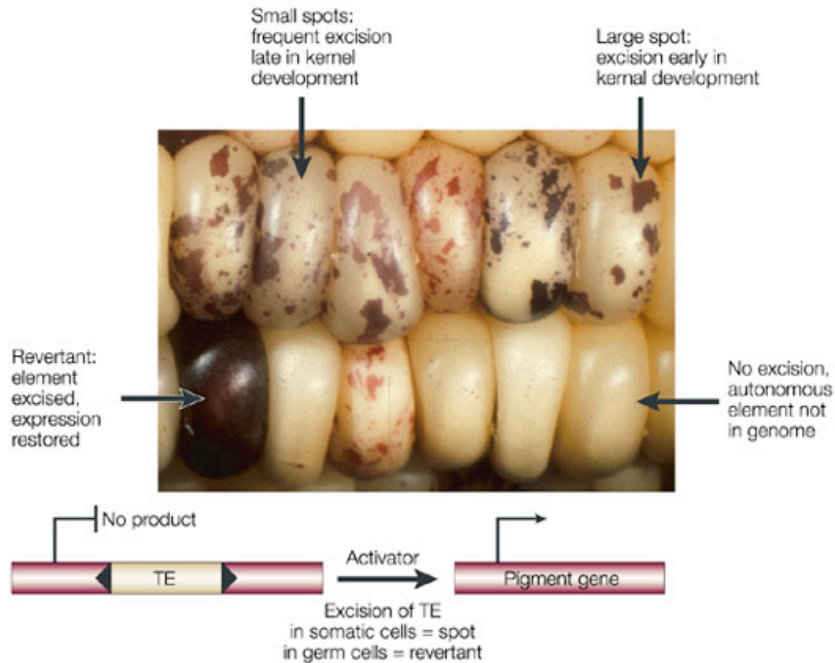
a RNAi



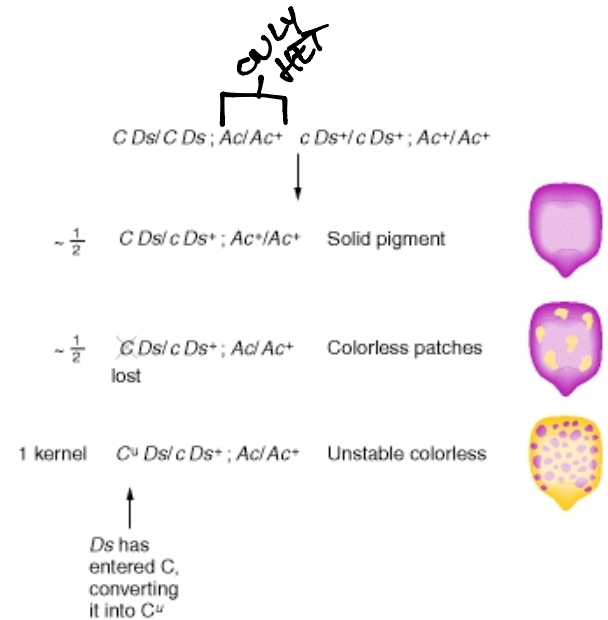
b RNAi-mediated chromatin modifications



TE movement & kernel color

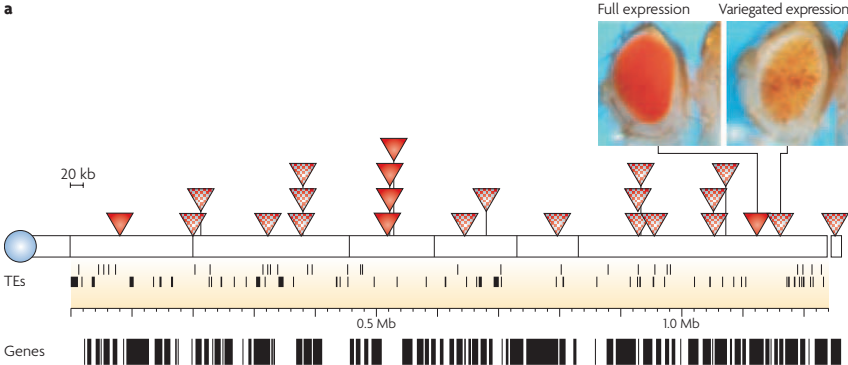


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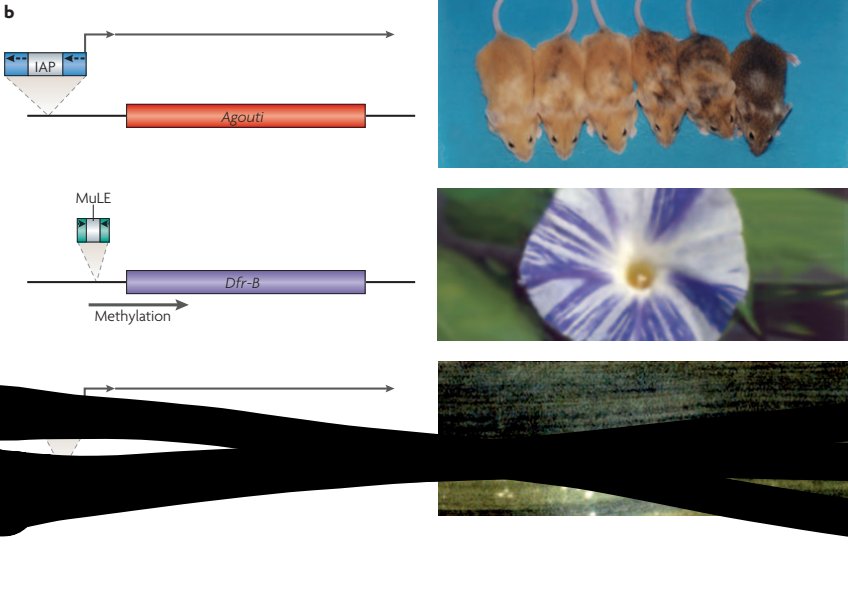


Examples of epigenetic effects

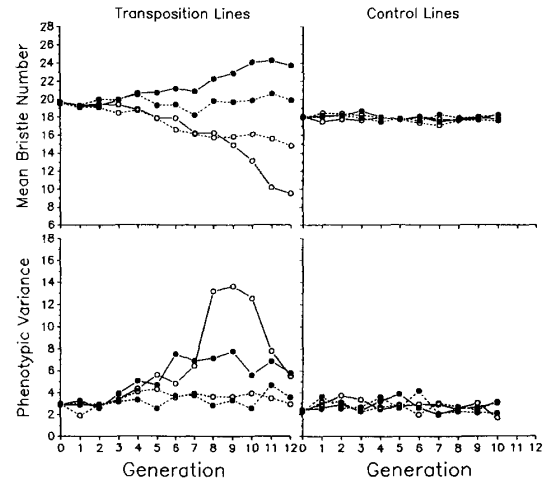
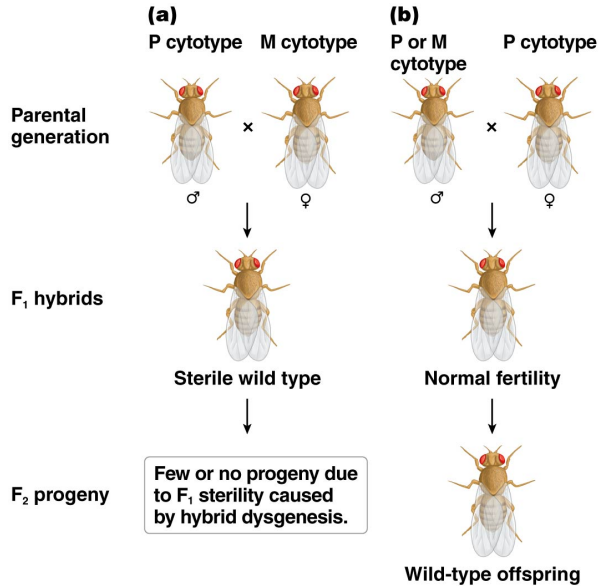
a



b



Drosophila P elements



V(D)J Recombination and vertebrate antibodies

