Copy of a printed diagram referenced as "Schematized behaviour of diploids heterozygous for the constitutive operator"

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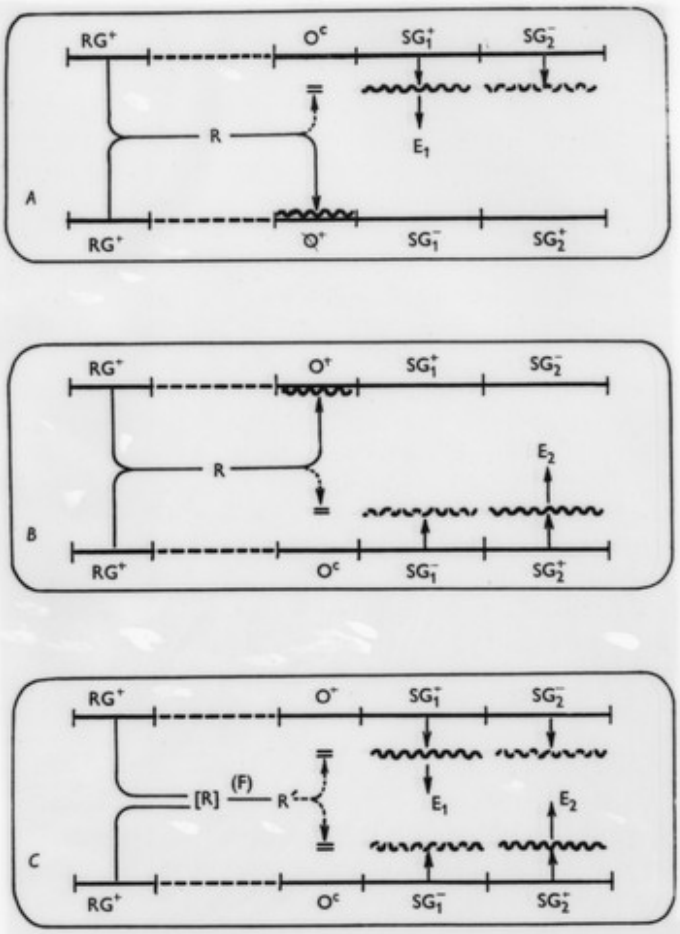

Schematized behaviour of diploids heterozygous for the constitutive operator (O^c mutation) and for each structural gene. (*A*) In the absence of inducer, the repressor made by the regulator gene blocks transcription in the lower chromosome which carries a normal operator; it does not act on the upper chromosome bearing the O^c mutant of the operator which does not combine with the repressor. Only enzyme E_1 is produced constitutively. (*B*) Same situation, but the mutated (O^c) operator is supposed to be present on the lower chromosome. Only enzyme E_2 is now produced. These two schemes illustrate the fact that an operator mutation affects only the activity of the genes placed on the same chromosome. (*C*) In the presence of inducer, both enzymes are produced.