

Diagram referenced as "Schematized behaviour of two diploids heterozygous the regulator for both structural genes"

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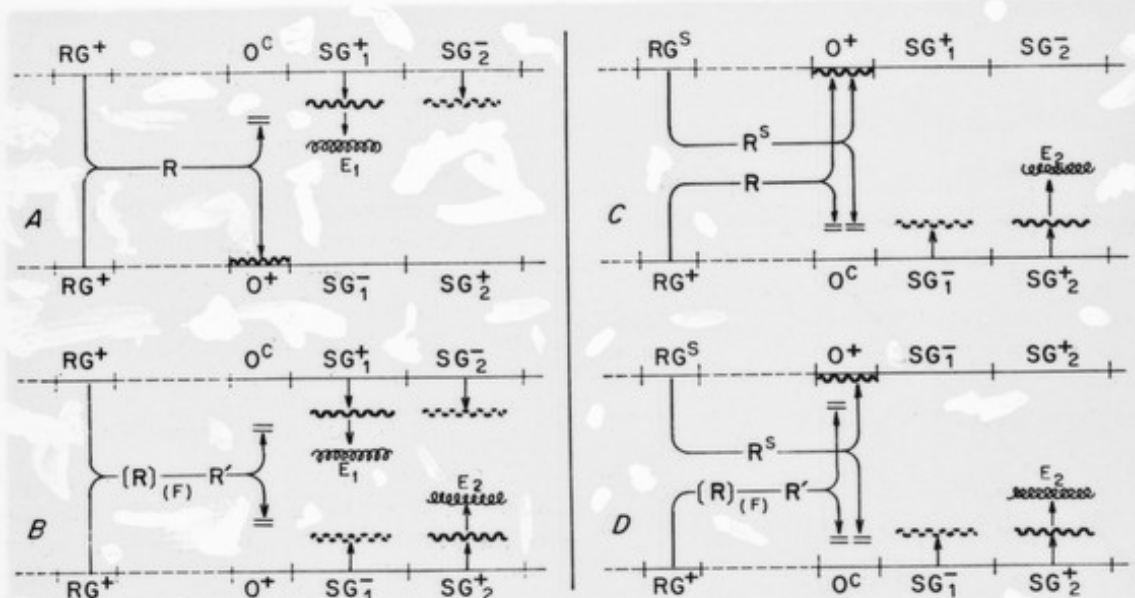
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Schematized behavior of two diploids heterozygous for the operator and for the structural genes.

produced. They block gene transcription in the normal operator (o^+) of the upper chromosome, but not in the mutated operator (o^c) of the lower chromosome. Only enzyme E_2 is produced since the lower chromosome carries a mutated structural gene SG_1^- . D. Induced. Only the normal repressor (R) reacts with the inducer while the altered (R^S) repressor does not. It still blocks transcription in the normal operator (o^+) of the upper chromosome but not in the mutated (o^c) operator of the lower chromosome. Only enzyme E_2 is made.

cluster of linked structural cistrons whose expression is controlled by the operator. The absence of any *trans* effect shows that the primary product, if any, of the operator segment cannot recombine, in the cytoplasm, with the products of structural genes. The operon is

