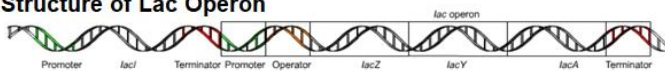


Crack CSIR-NET 2021 Through Mind Maps (Mind Map on Lac and Tryptophan Operon)

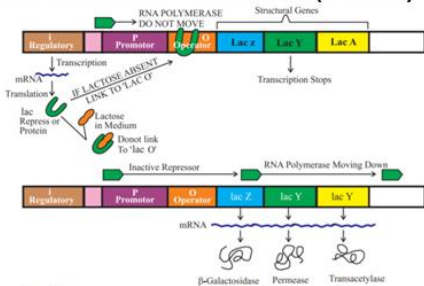


Lac Operon and Tryptophan Operon

Structure of Lac Operon

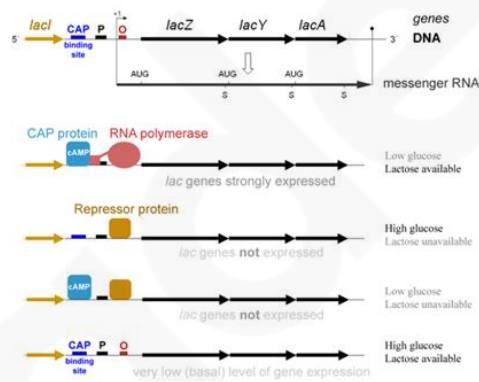


In the absence of Inducer (lactose)

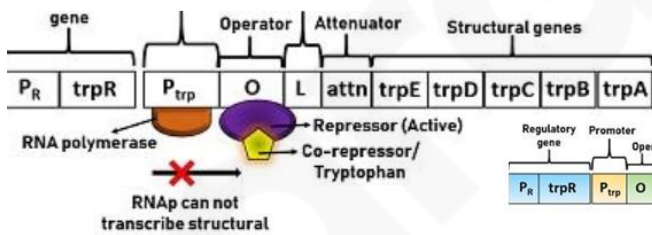


In the presence of Inducer (lactose)

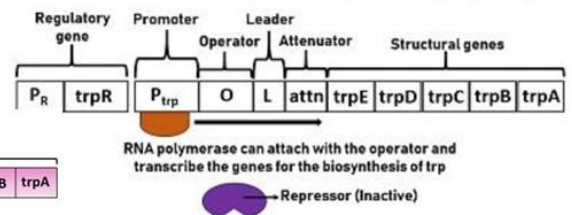
The lac Operon and its Control Elements



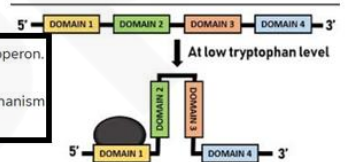
Repression of Tryptophan Operon



Derepression of Tryptophan Operon

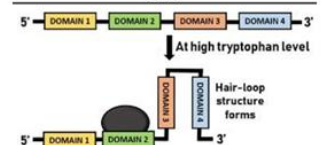


ATTENUATION OF TRP OPERON AT LOW TRYPTOPHAN LEVEL



- Ribosome slowly translates domain-1 peptide
- Domain-2 and 3 pairs up
- Antitermination

ATTENUATION OF TRP OPERON AT HIGH TRYPTOPHAN LEVEL



- Ribosome rapidly translates domain-1 peptide and sits upon domain-2
- Domain-3 and 4 pairs up
- Termination

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