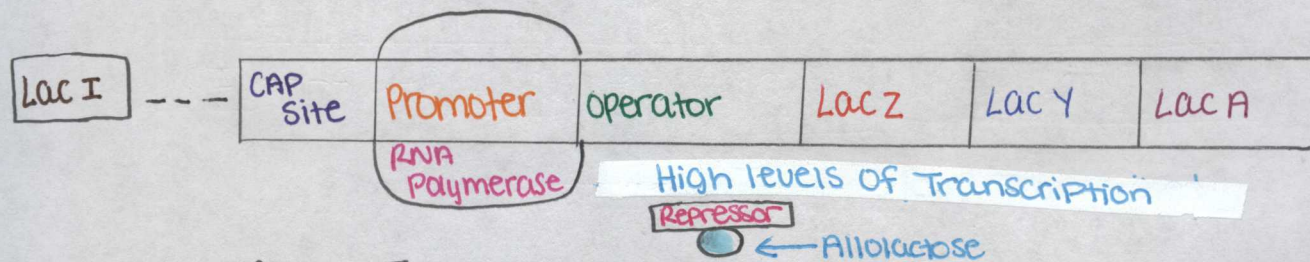


④ In absence of glucose & the presence of lactose



- Strong Transcription of the lac operon occurs. The repressor is released from the operator because the Allolactose is present. cAMP levels are high because glucose is absent. CAP is active & bound to DNA. CAP Helps RNA polymerase bind to promoter. Therefore, will have high levels of Transcription.

Describe where in the process of gene expression this regulation takes place

within The gene expression process takes place transcriptionally.

This means that it depends on certain factors like sugars and proteins in order to begin with transcription.