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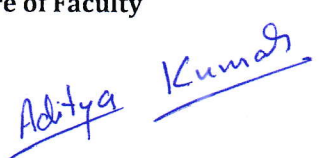
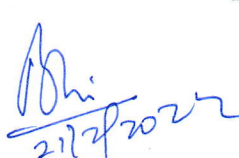
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Collaborative Research Report

Collaboration of Dr. Aditya Kumar MBBT with Prof. Manju Bansal MBU, IISc Bangalore. Project entitled. Characterization of DNA structural features and non B DNA structures in regulatory regions in prokaryotes: an insilico approach

Transcription initiation is the first step of the gene regulation process, which occurs at the stretch of DNA sequence called promoter. The absence of universal code or sequence motif signature makes promoter annotation extremely difficult while it is crucial for the complete understanding of functional genomics. The major theme of the proposed work is to characterize various DNA structural features and non B-DNA sequence motif signatures in promoter regions and transcriptions factor binding sites (TFBSs) of prokaryotes. The proposal also aims towards the development of putative promoter's database for whole genome sequences available in NCBI. These resources (web server and databases) will be helpful for researchers for large scale or genome-wide screening of putative promoters which can be targeted for modulating gene expression.

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