Abstract

Comparison of two promoter sequences is proposed in this paper. Motifs are extracted from promoter sequences using available software tool ‘TF SEARCH’. The promoter sequences are compared using cumulative frequency distribution of motifs. For experimental study, promoter sequences of different mammals of the enzyme Citrate synthase of TCA (kreb) cycle in CMP
New Distance Measure for Sequence Comparison using Cumulative Frequency Distribution

(Central Metabolic Pathway) are considered. Results reveal high similarity in motif sequences of different organisms in the same chromosome. Also some amount of similarity is present among motif sequences of different chromosomes of the same organism.

Reference

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Index Terms
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**Key words**

- Cumulative frequency distribution
- Distance measure
- Pattern matching
- Promoter sequence
- Regression line
- Transcription Factors (TFs)
- Transcription factor binding sites (TFBS)