2003 Vol. 39 No. 6 pp. 761-764 DOI:

Genomic Signal Search by Dynamic Programming

ZHENG Wei-Mou

Institute of Theoretical Physics, Academia Sinica, Beijing 100080, China Beijing Genomics Institute, Beijing 101300, China (Received: 2002-11-8; Revised:)

Abstract: A general and flexible multi-motif model is proposed based on dynamic programming. By extending the Gibbs sampler to the dynamic programming and introducing temperature, an efficient algorithm is developed. Branch point signal sequences and translation initiation sequences extracted from the rice genome are then examined.

PACS: 87.10.+e, 87.14.Gg

Key words: genomic signal search, dynamic programming

[Full text: PDF]

Close