Bioinformatics – Lecture Notes

Announcements

Seminar – "Quality Control in Manufacturing Oligo Arrays"

Professor Charlie Colbourn (over 230 journal papers)

Friday February 1, 11: am

EC 2.112

Class 5

1. Local alignment for proteins not closely related

Follow and explain text Pages 87-88.

- 2. Global Pairwise Sequence Alignment
 - A. Distance Methods how different are the sequences
 - B. Alignment with Tandem Duplication Uses the DSI model which is a different evolutionary model with duplications, substitutions and indels
 - C. Similarity Methods align many sequences with of different lengths and find optimal alignment of all sequences

Distance Methods – Define

Edit Operation

Edit Distance

Metric

Alignment

Alignment Distance