Advanced Algorithms in Bioinformatics (P4)

Sequence and Structure Analysis

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3. Exercise sheet, 2. May 2012
Discussion: 9. May 2012

Exercise 1. (additional material)

Read the survey paper:
Li, H, and Homer, N. (2010) A survey of sequence alignment algorithms for next-generation sequencing. Briefings in Bioinformatics 11 (5) (September 21): 473-483.

Exercise 2. (additional material)

Read about the following applications and subsume them in $1/3$ page.

- ChIP-Seq

- RNA-Seq

- Bisulfite Mapping

Literature can be found in the script of lecture 4.

Exercise 3.

Write a pseudocode for quick construction of a q-gram index for a given text.