

Algorithms in Genome Research
Winter 2009/2010

Exercises

Number 8, Discussion: 2009 December 18

1. What are the special features that a read mapper for cDNA sequences should implement?
2. Construct the splicing graph for the following mRNA reads. How many splice variants can you reconstruct?
AATAGGATTCAGG, CCTAGTTAGTTCA, CTCACCTAGTTCA, GTTAGTTCAGGAC, CTAGCCGATCGAAT,
AGGAGGAGGAT, AGGATTCA, CTAGCGAATAG
3. Find 3 (different) pairs of splice variants that can not uniquely be resolved in quantitative transcriptomics.