

BM121 – Week 41

Tuesday 11/10

Exercises:

- Durbin et al. exercise 2.1 (p. 15).
- Durbin et al. exercise 2.5, 2.6 (p. 19).
- Durbin et al. exercise 2.9 (p. 22).

Lecture:

- Pairwise alignment with linear gap score, Durbin et al. Section 2.3 (except global alignment which we already covered).
- Pairwise alignment with affine gap score, Durbin et al. Section 2.4.
- Pairwise sequence alignment using linear space, Durbin et al. Section 2.6.
- Deriving score parameters from alignment data, Durbin et al. Section 2.8.

Friday 14/10 (in U6)

Exercises:

- Durbin et al. exercise 2.10 (p. 32).
- Durbin et al. exercise 2.12 (p. 36).

Lecture:

- Alignment heuristics: BLAST and FASTA, Durbin et al. Section 2.5.
- Multiple sequence alignment, Durbin et al. Sections 6.1–6.4.

Slides

The slides used in the first lecture (Tuesday 4/10) can be found at

<http://www.imada.sdu.dk/~lenem/Teaching/BM121/bioinformatics/>

Most of the figures are from the book

Paul Berg, Maxine Singer

Dealing with Genes. The Language of Heredity.