

Handout 14

Lectures in Week 49

Monday, December 3 and Wednesday, December 5:

Parameter estimation for discretely observed continuous time Markov chains (e.g. a pairwise alignment) using the EM algorithm. The background material for this topic is Hobolth and Jensen (2005), which can be found in the 'Papers' folder on blackboard.

Exercises in Week 49

1. Re-visit the examples, provided at the lectures, of parameter estimation for continuous time Markov chains for a pairwise alignment using the EM algorithm.
2. Remaining exercises, questions and concerns from previous weeks.
3. Take a look at the exams from previous versions of the course (available in the 'Previous Exams' folder on blackboard): Autumn 2014 and Autumn 2016. Be aware that the topics (and their emphasis) change between different versions of the course.

References

Hobolth, A. and Jensen, J.L. (2005). Statistical inference in evolutionary models of DNA sequences via the EM algorithm. *Statistical Applications in Genetics and Molecular Biology*, **4**, 18.