

# Algorithms for Bioinformatics (Autumn 2015)

Study Groups 1a (Tue 8.9. 12-14 B222)

## Group A: Students with biology background

- One of the fundamental and most deeply studied algorithmic problems is sorting. Before coming to the study group familiarize yourself with the problem (e.g. using Wikipedia) and be ready to explain the idea of couple of well-known sorting algorithms like *insertion sort*, *quicksort*, *merge sort*, and *radix sort*.
- At study group, try to understand the running time  $O()$ -notion of different sorting algorithms:
  - What happens if you are sorting a set of DNA sequences into lexicographic order instead of integers?
  - What if the set of DNA sequences consists of all *suffixes* of one DNA sequence?

## Group B: Students with CS background

- Study the slides “molecular biology primer” (found on course web site) before coming to the study group.
- At study group, be ready to explain the material just using the “molecular biology cheat sheet”.