Program

Sequence comparison and database search,
Bergen, 29 January – 2 February 2018
VilVite Seminar room C

We will start at 10.00 Monday morning and finish by 16.00 Friday afternoon, all other
days, we start at 09.00 and end at 17.00.

Regarding content, this is a tentative schedule, and may be rearranged according to the
progress of the class.

Monday 29 January

10:00 LECTURE: Pairwise comparisons in an evolutionary context

LECTURE: Introduction to Dynamic Programming

13:00 LUNCH

14:00 PRACTICAL: Parsing Biological Files

PRACTICAL: Computing Substitution Matrices

18:00 DINNER at Bien Centro

Tuesday 30 January

09:00 LECTURE: Introduction to Dynamic Programming

LECTURE: RNA Folding Predictions

12:30 LUNCH

13:30 PRACTICAL: Introduction to Dynamic Programming
**Wednesday 31 January**

09:00     LECTURE: Blast Algorithm  
          LECTURE: MSA Introduction

12:30     LUNCH

13:30     PRACTICAL: Nussinov Algorithm  
          PRACTICAL: Tree Parsing

**Thursday 1 February**

09:00     LECTURE: MSA Algorithms  
          PRACTICAL: Implementing an MSA Algorithm

12:30     LUNCH

13:30     LECTURE: HMM Introduction I  
          PRACTICAL: HMM Modeling

**Friday 2 February**

09:00     LECTURE: HMM Introduction II

12:00     LUNCH

13:00     Written exam

15:00     Summary and wrap-up