

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