

Introduction to the Analysis of Genomes

ORGANIZERS: Prof. Aureliano Bombarely

SPEAKERS: Prof. Aureliano Bombarely

For registration, please contact
Aureliano Bombarely
(Max. Participants: 16)



PROGRAM

Day 1: Thursday June 17th, 2021.

09:00 – 09:30 Presentation of the Course

09:30 – 10:30 **Lecture**, First steps using a CLI in Linux

10:30 – 11:00 **Practice**, Basic file navigation with Linux

11:00 – 11:30 **BREAK**

11:30 – 12:30 **Lecture**, NGS applied to Genome sequencing

12:30 – 13:00 **Practice**, Manipulation of Sequence Files in Linux I

13:00 – 14:00 **LUNCH BREAK**

14:00 – 15:00 **Lecture**, Genome Sequencing Experimental Design & Analysis

15:00 – 15:30 **Practice**, Manipulation of Sequence Files in Linux II

15:30 – 16:00 **BREAK**

16:00 – 17:30 **Lecture**, Sequence Assembly

17:30 – 19:00 **Practice**, My First Genome Assembly

Day 2: Monday June 21st , 2021.

09:00 – 09:30 Questions from last session

09:30 – 10:30 **Lecture**, Read Mapping

10:30 – 11:30 **Practice**, Hands-on read mapping

11:30 – 12:00 **BREAK**

12:00 – 13:00 **Lecture**, Genome Annotation

13:00 – 14:00 **LUNCH BREAK**

14:00 – 16:00 **Practice**, Genome Annotation

16:00 – 16:30 **BREAK**

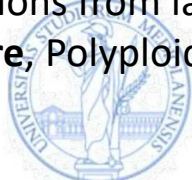
16:30 – 17:30 **Lecture**, Genome Evolution

17:30 – 19:00 Consulting and problem resolving session

Day 3: Thursday June 24st , 2021 (Continue next page)

09:00 – 09:30 Questions from last session

09:30 – 10:30 **Lecture**, Polyploidy and Whole Genome Duplications



PROGRAM

Day 3: Thursday June 24st , 2021 (Continuation)

10:30 – 11:30 Practice, WGD Analysis

11:30 – 12:00 BREAK

12:00 – 13:00 Lecture, Gene Families

13:00 – 14:00 LUNCH BREAK

14:00 – 15:00 Practice, Gene Family Analysis

15:00 – 16:00 Lecture, Synteny

16:00 – 16:30 BREAK

16:30 – 17:30 Lecture, Synteny Analysis

17:30 – 18:30 Lecture, Preparing a Genome Focus Article

18:30 – 19:00 Consulting and problem resolving session

