

GENOMICS AND POSTGENOMICS COURSE

BARILOCHE, ARGENTINA (7-11 October, 2019)

Course leaders: Laura Kamenetzky and Gisela Franchini

Hosts: Carolina Bagnato, Mauricio Sica

#	Date	Time	Topic	Instructor(s)
1	Day 1	9-10	Introductory words	Laura-Gisela-Carolina
2	Day 1	10-12	Students presentations	
3	Day 1	13-15	Tree of life based on whole genome data	Mark Blaxter
4	Day 1	15-16	Genomes and pathogens: protozoans	Guillermo Alonso
5	Day 1	16-17	Genomes and pathogens: helminthes	Laura Kamenetzky
6	Day 2	9-10	Genomes and pathogens: commensal, symbionts and parasites relationships	Mark Blaxter
7	Day 2	10-12	Genome projects: main steps	Lucas Maldonado
8	Day 2	13-17	Practical: Genome Assembly	Nathan-Pablo-Lucas-Gabriel
9	Day 3	9-10	Small-RNAseq discovery. Machine learning algorithms to analyze x-omic data. New algorithms	Laura Kamenetzky
10	Day 3	10-12	Strategies for gene annotation (structural and functional annotation)	Lucas Maldonado
11	Day 3	13-17	Practical: Structural gene annotation	Nathan-Pablo-Lucas-Gabriel
12	Day 4	9-10.30	Physicochemical and omics approaches in the study of proteins	Gisela Franchini
13	Day 4	10.30-12	Gene sequence annotation by phylogeny and computational methods	Carolina Bagnato
14	Day 4	13-17	Practical: Genomics in R	Nathan-Pablo-Lucas-Gabriel
16	Day 5	9-12	Mapping reads and introduction to comparative genomics - Genome visualization	Nathan-Pablo-Lucas-Gabriel
17	Day 5	13-16	Evaluation	Laura-Lucas-Gisela