



Bioinformatic analysis of NGS data for plant virus detection

Hands-on Training School

6-7 June 2018

Provisional program

Location: Computer Room, Dep. of Biology building, Heraklion, Crete

Max number of participants: 30

Chairs: Kriton Kalantidis, Assoc. Prof. Dep. of Biology, UoC / IMBB-FORTH
Pantelis Topalis, Bioinformatics Group IMBB-FORTH

Brief Schedule

Day 1

09:00 – 09:15	Welcome Kriton Kalantidis
09:15 – 11:30	Introduction to linux Emmanuel Dialynas
11:30 – 12:00	Coffee break
12:00 – 13:00	Introduction to sequencing technologies Pantelis Topalis
13:00 – 14:00	Lunch break
14:00 – 15:30	Quality control of sequencing reads - Read trimming+ hands-on George Papagiannakis
15:30 – 17:00	RNaseq data analysis (Differentially expression pipeline) + hands-

	on <i>Pantelis Topalis</i>
17:00 – 17:30	Coffee break
17:30 – 19:00	RNASEq data analysis (<i>de novo</i> transcriptome assembly) + hands-on <i>Pantelis Topalis</i>

Day 2

09:00 - 11:30	Next generation sequencing for plant viruses detection + hands-on <i>Pantelis Topalis</i>
11:30 – 12:00	Coffee break
12:00 – 13:00	Next generation sequencing for plant viruses detection hands-on (continued) <i>Pantelis Topalis</i>
13:00 – 14:00	Lunch break
14:00 – 17:00	A hands-on introduction and tutorial to Genome Wide Association Studies (GWAS) <i>Pantelis Topalis</i>
17:00 – 17:30	Coffee break
17:30 – 18:45	Multiple sequence alignment with (MUSCLE) <i>Pantelis Topalis</i>
18:45 – 19:00	Course feedback / Closing remarks <i>Pantelis Topalis, Kriton Kalantidis</i>

Important Notes:

- We require participants to self-study the online course <http://linuxsurvival.com> before start.
- The organizers will provide computers with all the required bioinformatics tools and demo data.

For further information please contact Kriton Kalantidis (kriton@imbb.forth.gr)



VirFree (H2020-MSCA-RISE-2016-Virus free fruit nurseries) | This project has received funding from the European Union's Horizon 2020 research and innovation programme under the Marie Skłodowska-Curie grant agreement No 734736.