

Bioinformatics in Health Sciences – 2021/2022

November 8 to 26, 2021

Day	Start	End	Theme	Faculty
08/11/2021	09:30	10:15	Course welcoming session	Nuno S. Osório (U.Minho) / Bruno Costa (U.Minho)
	10:45	13:00	Introduction to Linux command line	Sandro Queirós (U.Minho) / João Fonseca (U.Minho) / Nuno S. Osório / Bruno Costa
	14:30	18:00	Biomedical data analyses with Linux command line (hands-on exercises)	
09/11/2021	09:30	13:00	Biomedical data analyses with Linux command line (hands-on exercises)	Sandro Queirós (U.Minho) / João Fonseca (U.Minho) / Nuno S. Osório / Bruno Costa
	14:30	18:00	Biomedical data analyses with Linux command line (hands-on exercises)	
10/11/2021	09:30	10:30	Introduction to R	Pedro Ferreira (i3S), Nuno S. Osório
	11:30	13:00	Unsupervised Machine Learning for Gene Expression Analysis	Pedro Ferreira (i3S), Nuno S. Osório
11/11/2021	09:30	11:00	What are biological sequences? Where can I find them? What can I learn from them?	Gilberto Igrejas (UTAD) / Bruno Costa
	11:30	13:00	Public online sequence databases and genome browsing	
	14:30	17:30	Biological Sequence Alignments	Gilberto Igrejas (UTAD) / Bruno Costa
	17:30	18:00	Theme wrap-up discussion	Gilberto Igrejas (UTAD) / Bruno Costa / Nuno S. Osório
12/11/2021	09:30	11:30	Practical integrative exercises: "Space Race!"	Nuno S. Osório / Bruno Costa
	12:00	13:00	The next frontiers in "Omics": single-cell analysis	Ana Falcão (U.Minho)
15/11/2021	10:30	11:30	Advances in next generation sequencing (NGS) technologies: research applications of Genomics	Mireia Coscolla (U.Valencia) / Nuno S. Osório
	14:30	17:30	Examples of Bioinformatics Approaches from the ICVS - short talks	Nuno S. Osório / Bruno Costa
16/11/2021	09:30	13:00	Application of Proteomics to biological questions	Bruno Almeida (U.Minho) / Bruno Costa
	14:30	18:00	Proteomics in Health and Disease	Bruno Manadas (CNC, Coimbra) / Bruno Costa
19/11/2021	14:30	18:00	Webserver project presentations	Nuno S. Osório / Bruno Costa
26/11/2020	9:30	11:00	Exam	Nuno S. Osório / Bruno Costa