



University of Minho
School of Medicine

BIOINFORMATICS IN HEALTH SCIENCES

January 30th to February 17th, 2023 ::: 14th Edition

Day	Start	End	Theme	Teaching Staff	Room
30-01-2023	09:30	10:30	Course welcoming session	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A2.08
	10:45	13:00	Introduction to Linux command line	Sandro Queirós (UMinho), Nuno S. Osório (UMinho)	A2.08
	14:30	18:00	Biomedical data analyses with Linux command line (hands-on exercises)	Sandro Queirós (UMinho), Nuno S. Osório (UMinho)	A2.08
31-01-2023	09:30	13:00	Biomedical data analyses with Linux command line (hands-on exercises)	Sandro Queirós (UMinho), Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A2.08
	14:30	18:00			
01-02-2023	09:30	10:30	Introduction to R	Nuno S. Osório (UMinho), Pedro Ferreira (i3S)	A2.08
	10:30	13:00	Unsupervised Machine Learning for Gene Expression Analysis	Nuno S. Osório (UMinho), Pedro Ferreira (i3S)	A2.08
02-02-2023	09:30	11:00	What are biological sequences? Where can I find them? What can I learn from them?	Bruno Costa (UMinho), Gilberto Igrejas (UTAD)	A2.08
	11:30	13:00	Public online sequence databases and genome browsing	Bruno Costa (UMinho), Gilberto Igrejas (UTAD)	A2.08
	14:30	17:30	Practical integrative exercises: "Space Race!"	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A2.08
	17:30	18:00	Theme wrap-up discussion	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A2.08
03-02-2023	11:30	12:30	The next frontiers in "Omics": single-cell analysis	Ana Falcão (UMinho)	A1.05
06-02-2023	09:30	10:30	A beginner-friendly introduction to Jupyter and Python	Nuno S. Osório (UMinho), Ana Pereira (INSA), João Correia (CEB)	A2.05
	14:30	17:30	Principal Component Analysis (PCA) and other popular Dimensionality Reduction methods	Nuno S. Osório (UMinho), Ana Pereira (INSA), João Correia (CEB), Leonardo Garma (KI)	A2.05
07-02-2023	09:30	13:00	Applications of Proteomics to Biological Questions	Bruno Almeida (UMinho)	A2.08
	14:30	18:00	Examples of Bioinformatics Approaches from the ICVS - short talks	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A1.05
10-02-2023	14:30	18:00	Web Server presentations	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A1.05
17-02-2023	09:30	11:00	Exam	Bruno Costa (UMinho), Nuno S. Osório (UMinho)	A2.08