



University of Minho  
School of Medicine

## BIOINFORMATICS IN HEALTH SCIENCES

February 5-23, 2024 ::: 15<sup>th</sup> Edition

### Week 1

Day	Start	End	Theme
05-02-2024	09:30	10:30	Course welcoming session
	10:45	13:00	Introduction to Linux command line
	14:30	18:00	Biomedical data analyses with Linux command line (hands-on exercises)
06-02-2024	09:30	13:00	Biomedical data analyses with Linux command line (hands-on exercises)
	14:30	18:00	Biomedical data analyses with Linux command line (hands-on exercises)
07-02-2024	09:30	10:30	Introduction to R
	10:30	13:00	Using R for Gene Expression Analysis
08-02-2024	09:30	11:00	What are biological sequences? Where can I find them? What can I learn from them?
	11:30	13:00	Public online sequence databases and genome browsing
09-02-2024	09:30	12:30	Practical integrative exercises: "Space Race!"
	12:30	13:00	Theme wrap-up discussion

### Week 2

Day	Start	End	Theme
12-02-2024	09:30	12:30	A beginner-friendly introduction to Python
14-02-2024	09:30	10:30	The next frontiers in "Omics": single-cell analysis
	10:30	13:00	Applications of Proteomics to Biological Questions
	14:30	18:00	Examples of Bioinformatics Approaches from the ICVS - short talks

### Week 3

Day	Start	End	Theme
19-02-2024	09:30	13:00	Web Server presentations
23-02-2024	09:30	11:00	Exam