INSTITUTO DE NEUROCIENCIAS

EXCELENCIA SEVERO OCHOA
2014 - 2027

FENS Federation of European Neuroscience Societies
NENS Network of European Neuroscience Schools

Programme

Day/Time	Topic	Instructor
Day one – Monday 20 May 2024		
09:00 – 09:30	Arrival and registration	
09:30 – 09:45	Welcome	Jose P. Lopez-Atalaya
09:45 – 10:45	Course introduction	Jose P. Lopez-Atalaya
10:45 – 11:00	*Break*	
11:00 – 12:30	Lecture: Basics of RNA-seq	Jose P. Lopez-Atalaya
12:30 – 13:30	*Lunch*	
13:30 – 16:30	Practical: End-to-end RNA-Seq workflow	Jose P. Lopez-Atalaya / Angel Marquez
Day two – Tuesday 21 May 2024		
09:30 – 10:15	Lecture: Basics of ChIP-seq and CUT&Tag	Sergio Niñerola
10:15 – 10:30	*Break*	
10:30 – 11:15	Lecture: Basics of ATAC-seq	Marina Guillot
11:15 – 11:30	*Break*	
11:30 – 12:30	Practical: End-to-end ChIP-seq / ATAC-seq workflow (I)	Sergio Niñerola / Marina Guillot
12:30 – 13:30	*Lunch*	
13:30 – 15:30	Practical: End-to-end ChIP-seq / ATAC-seq workflow (II)	Sergio Niñerola / Marina Guillot
Day three – Wednesday 22 May 2024		
09:30 – 10:15	Lecture: Basics of scRNAseq (I)	Jose P. Lopez-Atalaya
10:15 – 10:30	*Break*	
10:30 – 11:30	Keynote Lecture: Neurogenomics	Gabriel Santpere
11:30 – 11:45	*Break*	
11:30 – 12:30	Lecture: Basics of scRNAseq (II)	Angel Marquez
12:30 – 13:30	*Lunch*	
13:30 – 16:30	Practical: scRNAseq data analysis in R using Seurat	Angel Marquez / Nitin Narwade
Day four – Thursday 23 May 2024		
09:30 – 10:15	Lecture: Basics of scRNAseq (III)	Juan M. Barba
10:15 – 10:30	*Break*	
10:30 – 11:30	Keynote Lecture: Spatial Transcriptomics	Anna Pascual
11:30 – 11:45	*Break*	
11:30 – 12:30	Lecture: Basics of scRNAseq (IV)	Nitin Narwade
12:30 – 13:30	*Lunch*	
13:30 – 16:30	Practical: scRNAseq data analysis in Python using Scanpy	Juan M. Barba / Nitin Narwade
Day five – Friday 24 May 2024		
09:30 – 10:15	Lecture: Single cell multiome gene expression and chromatin accessibility data	Lorenzo Puche
10:15 – 10:30	*Break*	
10:30 – 13:00	Practical: Single cell multiome gene expression and chromatin accessibility data analysis with Signac	Lorenzo Puche / Jose P. Lopez-Atalaya
13:00 – 13:30	Course wrap-up and feedback	Jose P. Lopez-Atalaya
13:30	End of the course	

jose.lopezatalaya@csic.es
jose.lopez@umh.es
in.umh-csic.es

Tel: +34 96 523 3744

Av. Ramón y Cajal s/n
Campus de San Juan
03550 SAN JUAN DE ALICANTE– ESPAÑA