

Schedule for "Next Generation Sequencing Data Analysis with clinical applications, 7,5 credits (ECTS)" - 2023

Installation
 Assignments
 Own learning

Q&A: optional

Self studies: these may be distributed as you see fit, it only represents you are expected to invest on your own

AUGUST						
w34	Mon 21	Tue 22	Wed 23	Thu 24	Fri 25	SUN 27
13-14	Course intro					Galaxy account
14-15		Self studies	Self studies	Self studies	Self studies	Software installation
15-16						R installation
AUGUST				SEPTEMBER		
w35	Mon 28	Tue 29	Wed 30	Thu 31	Fri 1	SUN 3
13-14						Genomics quiz
14-15		Self studies	Self studies	Self studies	Self studies	Recording consent
15-16						
SEPTEMBER						
w36	Mon 4	Tue 5	Wed 6	Thu 7	Fri 8	SUN 10
13-14	Intro to Bioinformatics		Databases		Q&A	Galaxy intro
14-15		Self studies	Intro to Bioinformatics	Self studies	Self studies	
15-16						
SEPTEMBER						
w37	Mon 11	Tue 12	Wed 13	Thu 14	Fri 15	SUN 17
13-14	Q&A		Q&A			Sequence bioinformatics
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						
SEPTEMBER						
w38	Mon 18	Tue 19	Wed 20	Thu 21	Fri 22	SUN 24
13-14	Intro to NGS and QC		Mapping and Visualization		Q&A	from fasta to phylogenetic tree using galaxy
14-15		Self studies		Self studies	Self studies	
15-16						
SEPTEMBER						
w39	Mon 25	Tue 26	Wed 27	Thu 28	Fri 29	SUN 1
13-14	Q&A		Q&A			Alignment visualization
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						

OCTOBER						
w40	Mon 2	Tue 3	Wed 4	Thu 5	Fri 6	SUN 8
13-14	Intro to R		Q&A		Q&A	
14-15		Self studies	Self studies	Self studies	Self studies	
15-16						
						Galaxy workflows
OCTOBER						
w41	Mon 9	Tue 10	Wed 11	Thu 12	Fri 13	SUN 15
13-14	Intro to R		Q&A			
14-15		Self studies	Self studies	Self studies	Self studies	
15-16						
						Statistics and visualization
OCTOBER						
w42	Mon 16	Tue 17	Wed 18	Thu 19	Fri 20	SUN 22
13-14	SNP analysis		Q&A		Q&A	
14-15		Self studies	Self studies	Self studies	Self studies	
15-16						
OCTOBER						
w43	Mon 23	Tue 24	Wed 25	Thu 26	Fri 27	SUN 29
13-14	Q&A		Q&A			
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						
						SNP analysis
OCTOBER			NOVEMBER			
w44	Mon 30	Tue 31	Wed 1	Thu 2	Fri 3	SUN 5
13-14	Gene expression analysis		Q&A		Q&A	
14-15		Self studies	Self studies	Self studies	Self studies	
15-16						
NOVEMBER						
w45	Mon 6	Tue 7	Wed 8	Thu 9	Fri 10	SUN 12
13-14	Q&A		Q&A			
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						
						Expression analysis
NOVEMBER						
w46	Mon 13	Tue 14	Wed 15	Thu 16	Fri 17	SUN 19
13-14	Pathway analysis and reproducibility				Q&A	
14-15		Self studies	Project check	Self studies	Self studies	
15-16						

NOVEMBER						
w47	Mon 20	Tue 21	Wed 22	Thu 23	Fri 24	SUN 26
13-14	Q&A		Q&A			
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						
Pathway analysis						
NOVEMBER				DECEMBER		
w48	Mon 27	Tue 28	Wed 29	Thu 30	Fri 1	SUN 3
13-14	Q&A				Q&A	
14-15	Self studies	Self studies	Project check	Self studies	Self studies	
15-16						
DECEMBER						
w49	Mon 4	Tue 5	Wed 6	Thu 7	Fri 8	SUN 10
13-14	Q&A				Q&A	
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						
DECEMBER						
w50	Mon 11	Tue 12	Wed 13	Thu 14	Fri 15	SUN 17
13-14	Q&A	Oral presentation hand in				
14-15	Self studies	Self studies	Examination	Self studies	Self studies	
15-16						
Final written report						