

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

Installation
 Assignments
 Own learning

Q&A: optional
 Mandatory sessions

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

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

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

NOVEMBER						
	Mon	Tue	Wed	Thu	Fri	SUN
w46	13	14	15	16	17	19

13-14	Pathway analysis and reproducibility		Project check		Q&A	
14-15		Self studies		Self studies	Self studies	
15-16						

NOVEMBER						
	Mon	Tue	Wed	Thu	Fri	SUN
w47	20	21	22	23	24	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		
	Mon	Tue	Wed	Thu	Fri	SUN
w48	27	28	29	30	1	3

13-14	Q&A		Project check		Q&A	
14-15	Self studies	Self studies		Self studies	Self studies	
15-16						

DECEMBER						
	Mon	Tue	Wed	Thu	Fri	SUN
w49	4	5	6	7	8	10

13-14	Q&A				Q&A	
14-15	Self studies	Self studies	Self studies	Self studies	Self studies	
15-16						

DECEMBER						
	Mon	Tue	Wed	Thu	Fri	SUN
w50	11	12	13	14	15	17

13-14	Q&A	Oral presentation hand in	Examination			
14-15	Self studies			Self studies	Self studies	
15-16		Self studies				

Final written report