

## EACCR2 NID Node Training Course on Genomics

### Timetable

[Link to teaching material](#)

Day	1		
Time	Event	Topic	Responsible person(s)
9.00 - 9.30	Arrival and registration		AH, DJ, SF, PA
9.30 - 10.00	Opening.	Aims, ground rules and plan of the course. Group formation.	DJ, SF, PA
10.00 - 10.30	Tea break		
10.30 - 11.00	Lecture 1	Introduction to genomics.	DJ
11.00 - 11.30	Lecture 2	Introduction to next generation and third generation sequencing	PA
11.30 - 12.00	Workshop 1	Analysis of 'low throughput' sequence data and phylogeny creation.	DJ, SF, PA
12.00 - 13.30	Lunch break		
13.30 - 15.30	Workshop 1	Analysis of 'low throughput' sequence data and phylogeny creation.	DJ, SF, PA
15.30 - 16.00	Tea break		
16.00 - 17.30	Workshop 2	Introduction to linux and servers.	SF, PA, DJ
17.30 -	<i>Preparation for student talks.</i>	<i>All material taught so far.</i>	<i>Students</i>

Day	2		
Time	Event		Responsible person(s)
9.00 - 9.30	Lecture 3	Processing NGS data files and file processing.	SF
9.30 - 9.40	Workshop 2	Recap on linux and servers.	SF, PA, DJ
9.40 - 10.00	Workshop 3	Short read data analysis: quality control, sequence trimming, read alignment and samtools.	SF, PA, DJ
10.00 - 10.30	Tea break		
10.30 - 11.00	Workshop 3	Short read data analysis: quality control, sequence trimming, read alignment and samtools.	SF, PA, DJ
11.00 - 11.30			
11.30 - 12.00			
12.00 - 13.30	Lunch break		
13.30 - 14.00	Workshop 3		DJ
14.00 - 15.30			SF, PA, DJ
15.30 - 16.00	Tea break		
16.00 - 17.30	Workshop 3		SF, PA, DJ
17.30 -	<i>Preparation for student talks.</i>	<i>All material taught so far.</i>	<i>Students</i>

Day	3		
Time	Event		Responsible person(s)
9.00 - 9.30	Lecture 4	Principles of population genomics.	DJ
9.30 - 10.00	Workshop 4	Calling and filtering SNPs and indels.	
10.00 - 10.30	Tea break		
10.30 - 11.00	Workshop 4		SF, PA, DJ
11.00 - 11.30			
11.30 - 12.00			
12.00 - 13.30	Lunch break		
13.30 - 17.30	Visit to historic site of Fasil Ghebbi	The Royal Enclosure (Amharic: ፋሲለ ግቢ, or Fasil Ghebbi) is the remains of a fortress-city in Gondar. See: <a href="https://en.wikipedia.org/wiki/Fasil_Ghebbi">https://en.wikipedia.org/wiki/Fasil_Ghebbi</a>	AH

Day	4		
Time	Event		Responsible person(s)
9.00 - 9.30	Lecture 5	Genomic diversity, population structure and selection.	DJ
9.30 - 10.00	Lecture 6	Introduction to diversity analysis	SF
10.00 - 10.30	Tea break		
10.30 - 11.00	Workshop 5	Describing genomic diversity using summary statistics and allele frequencies.	SF, PA, DJ
11.00 - 11.30			
11.30 - 12.00			
12.00 - 13.30	Lunch break		
13.30 - 15.30	Workshop 5		SF, PA, DJ
15.30 - 16.00	Tea break		
16.00 - 17:30	<i>Preparation for student talks.</i>	<i>All material taught so far.</i>	<i>Students</i>

Day	5		
Time	Event		Responsible person(s)
9.00 - 9.30	Workshop 6	Analysis of population structure.	SF, PA, DJ
9.30 - 10.00			
10.00 - 10:30	Tea break		
10.30 - 11.00	Workshop 6		
11.00 - 11.30			
11.30 - 12:00	<i>Final preparation for student talks.</i>	<i>All material taught so far.</i>	<i>Students</i>
12.00 - 13:30	Lunch break		
13:30 - 15.30	Student talks	Students will present their results in groups of three. Each student should present some of the slides. Talks should be 10 minutes long and describe some of the principles, methods and results they have learned.	
15.30 - 16.00	Tea break		
16.00 - 17:30	Close	Presentation of certificates.	