

Int BT 2020 prelim course schedule

*subject to slight changes

Date	Topic	Trainer	
Welcome to the course!			
Tuesday, 22 September	Get to know where your classroom is and meet your teaching assistants and fellow participants	Int_BT core team	
Thursday, 24 September	Using Vula efffectively and classroom bios	Int_BT core team	
Introduction to the command line and R			
Tuesday, 29 September	Introduction to the command line	Gerrit Botha, H3ABioNet, University of Cape Town	
Thursday, 1 October	Introduction to R	Katie Lennard, H3ABioNet, University of Cape Town	
Friday, 2 October	Assessment available for the 'introduction to command line and R' module via Vula 'Tests and Quizzes' tab	individual	
Friday, 9 October	FINAL hand-in date for 'introduction to command line and R' assessment	individual	
Introduction to the microbiome and study design - why 16S			
Tuesday, 6 October	Introduction to the microbiome and study design - why 16S	Shantel Claassen-Weitz	
Sample collection, extraction and library prep for NGS			
Thursday, 8 October	Sample collection, extraction and library prep for 16S NGS analyses	Shantel Claassen-Weitz	
Friday, 9 October	Joint Assessment available for the 'Introduction to the microbiome and study design' AND 'Sample collection, extraction and library prep for 16S NGS analyses' modules via Vula 'Tests and Quizzes' tab	individual	
Friday, 16 October	FINAL hand-in date for 'Introduction to the microbiome and study design' AND 'Sample collection, extraction and library prep for 16S NGS analyses' assessment	individual	
16S rRNA gene amplicon sequencing bioinformatics pipeline: the theory			
Tuesday, 13 October	Bioinformatics pipeline - The theory	Samson Kilaza	
16S analysis pipeline			
Thursday, 15 October	QC and ASV picking using the dada2 pipeline	Imane Allali	

Tuesday, 20 October	Taxonomic classification and alignment using the dada2 pipeline	Imane Allali	
Thursday, 22 October	Revision day: No formal session		
Friday, 23 October	Assessment available for the '16S analysis pipeline' module via Vula 'Tests and Quizzes' tab	individual	
Friday, 30 October	FINAL hand-in date for '16S analysis pipeline' assessment	individual	
Downstream analysis in R			
Tuesday, 27 October	Loading packages for 16S, Basic terminology, Importing relevant ASV tables into R	Katie Lennard	
Thursday, 29 October	Downstream analysis in R (alpha diversity, visual data exploration, etc.)	Katie Lennard	
Tuesday, 3 November	Downstream analysis in R, continued	Katie Lennard	
Thursday, 5 November	NO FORMAL SESSION: REVISION		
Friday, 6 November	Assessment available for the 'Downstream analysis in R' module via Vula 'Test and Quizzes' tab	individual	
Friday, 13 November	FINAL hand-in date for 'Downstream analysis in R' assessment	individual	
Wrap up week			
Tuesday, 10 November	Wrap up and feedback + where to go from here	Verena	
Friday, 13 November	Course end		