



# H3ABioNet

Pan African Bioinformatics Network for H3Africa

## IBT\_2021 course (preliminary) schedule\*

\*subject to slight changes. Up-to-date due dates reflected in Vula

Date	Topic	Trainer
<b>Welcome to the course!</b>		
Tuesday, 6 July	Staff Training Day/Session 1	Paballo Chauke, <i>University of Cape Town</i>
Thursday, 8 July	Staff Training Day/Session 2	Paballo Chauke
Tuesday, 13 July	Introductory session 1 - welcome to the course!	Verena Ras, <i>University of Cape Town</i>
Thursday, 15 July	Introductory session 2- what is bioinformatics and why is it important?	Pedro L. Fernandes Instituto Gulbenkian de Ciência, Oeiras, Portugal and David P. Judge Freelance independent Bioinformatics instructor
<b>Module 1: Introduction to databases and resources</b>		
Tuesday, 20 July	Session 1: Biological databases and resources (NCBI, EBI)	Shaun Aron University of Witwaterstrand, South Africa
Thursday, 22 July	Session 2: Advanced literature searching – PubMed	Shaun Aron
Tuesday, 27 July	Session 3: DNA analysis – e.g. sequence features, start site, restriction sites etc	Shaun Aron
Thursday, 29 July	Session 4: Protein function classification	Shaun Aron
<b>Dates for Module 1 Assessment</b>		
*Friday, 30 July	Assessment available for the 'introduction to databases and resources' module via Vula 'Assessments' tab	individual
*Friday, 6 August	<b>FINAL hand-in date</b> for 'introduction to databases and resources' assessment	individual
<b>Module 2: Linux</b>		
Tuesday, 3 August	Session 1: Introduction to Linux and UNIX and the command line	Amel Ghouila <i>Institute Pasteur de Tunis, South Africa</i>
Thursday, 5 August	Session 2: Manipulating files. Useful commands and tips	Amel Ghouila



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Tuesday, 10 August	Session 3: Permissions, groups and process control	Amel Ghouila
Thursday, 12 August	Session 4: Consolidation session – applications of Linux	Amel Ghouila
	<b>Dates for Module 2 Assessment</b>	
*Friday, 13 August	Assessment available for the 'Linux' module via Vula 'Assessments' tab	individual
*Friday, 20 August	<b>FINAL hand-in date</b> for 'Linux' assessment	individual
<b>Module 3: Sequence alignment theory and application</b>		
Tuesday, 17 August	Session 1: Introduction to searching and sequence alignment	Jonathan Kayondo, <i>Uganda Virus Research Institute, Uganda</i>
Thursday, 19 August	Session 2: Pairwise sequence alignment	Jonathan Kayondo
Tuesday, 24 August	Session 3: BLAST algorithm	Sonal Henson
<b>Thursday, 26 August</b>	<b>NO SESSION</b>	
	<b>Dates for Module 3 Assessment</b>	
*Friday, 27 August	Assessment available for the 'sequence alignment theory and application' module via Vula 'Assessments' tab	individual
*Friday, 3 September	<b>FINAL hand-in date</b> for 'sequence alignment theory and application' assessment	individual
<b>Module 4: Multiple sequence alignment</b>		
Tuesday, 31 August	Session 1: Applications of multiple sequence alignment	Ahmed Mansour Alzohairy <i>Zagazig University, Egypt</i>
Thursday, 02 September	Session 2: Choosing the right sequences and the right software	Ahmed Mansour Alzohairy
	<b>Dates for Module 4 Assessment</b>	
*Monday, 03 September	Assessment available for the 'multiple sequence alignment' module via Vula 'Assessments' tab	individual
*Monday, 10 September	<b>FINAL hand-in date</b> for 'multiple sequence alignment' assessment	individual
<b>Module 5: Genomics</b>		



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Tuesday, 7 September	Session 1: Genome sequences – sequencing technology and NGS overview	Fatma Guerfali <i>Institute Pasteur de Tunis, Tunisia</i>
Thursday, 9 September	Session 2: Genome annotation including genome browsers (feature finding etc)*	Emily Perry <i>European Bioinformatics Institute (EMBL-EBI)</i>
Tuesday, 14 September	Session 3: Comparative genomics	Fatma Guerfali
Thursday, 16 September	Session 4: Human variation*	Emily Perry
Tuesday, 21 September	Session 5: Consolidation session	Fatma Guerfali
<b>THURSDAY, 23 September</b>	<b>NO SESSION</b>	
	<b>Due date for Module 5 Assessment</b>	
*Friday, 24 September	Assessment available for the 'genomics' module via Vula 'Assessment' tab	individual
*Friday, 1 October	<b>FINAL hand-in date</b> for 'genomics' assessment	individual
<b>Module 6: Molecular evolution and phylogenetics</b>		
Tuesday, 28 September	TBC	Anna Zhukova <i>Instut Pasteurur, France</i>
Thursday, 30 September	TBC	Anna Zhukova
Tuesday, 5 October	TBC	Anna Zhukova
Thursday, 7 October	Session 4:	Anna Zhukova
	<b>Due date for Module 6 Assessment</b>	
*Friday, 8 October	Assessment available for the 'molecular evolution and phylogenetics' module via Vula 'Assessments' tab	individual
*Friday, 15 October	<b>FINAL hand-in date</b> for 'molecular evolution and phylogenetics' assessment	individual
<b>Final session</b>		
Tuesday, 12 October	Consolidation	TBC
Friday, 15 October	<b>Course ends</b>	