

Program

Bioinformatics using the eBioKit Platform

Commission for Biotechnology & Genetic Engineering, National Center for Research

December 1 - 6, 2014

Time	Activity	Trainers/resource person
DAY 1: MONDAY, 1 DECEMBER		
0900-0920	<i>Arrival and Registration</i>	Sudan and Nairobi team
	<i>Welcome and Opening Session</i>	
0920-0935	Holy Quran	
0935-0945	Statement by Director/ Commission for Biotechnology & Genetic Engineering (Workshop Organizer)	Dr. Nada Babiker Hamza
0945-0955	Welcoming Address	Prof. Dr. Migdam Elsheikh Abdelgani, Director General, National Center for Research
0955-1005	Statement by representative of the BecA-ILRI Hub	Mark Wamalwa/ Joyce Njuguna
1005 - 1015	Statement by the ASARECA/Program officer (Agrobiodiversity and Biotechnology)	Mr. Jean Gapusi
1015-1025	H.E. State Minister of Science and Communications	Mr. Elsadg Fadlalla Sbah Elkhair
1025-1100	Breakfast	

Time	Activity	Trainers/resource person
1100-1130	BecA hub and Capacity Building presentation	Mark Wamalwa
1130 - 1230	First Session: Introduction to Bioinformatics and the eBioKit	Mark Wamalwa
1230 -1335	Second Working Session: Bioinformatic Resources for Data Management (Biological databases) and BLAST	Etienne Villiers
1335 - 1414	Lunch	
1415-1630	Database searching using BLAST on the eBioKit	Etienne Villiers / Joyce Njuguna
DAY 2: TUESDAY, 2 DECEMBER		
0900-1000	First Session: Introduction to LINUX operating system	Mark Wamalwa
1000-1100	Hands on LINUX	Joyce Njuguna
1100-1130	Tea/coffee break	
1130-1400	Second working session: Lecture and Hands-on Introduction to the EMBOSS package (command line or wEMBOSS) -Nucleotide and Protein sequences Analysis	Etienne Villiers / Joyce Njuguna
1400-1430	Lunch	
1430-1630	Third working session: Lecture and Hands-on Introduction to ENSEMBLE	Etienne Villiers /Joyce Njuguna

Time	Activity	Trainers/resource person
DAY 3: WEDNESDAY, 3 DECEMBER		
0900-1100	First Session: Introduction to NGS technologies	Andreas Gisel
1100-1130	Tea/coffee break	
1130-1330	Hands on NGS analysis using the EBioKit analysis suite (GALAXY)	Andreas Gisel/ All other trainers
1330-1410	Lunch	
1410-1530	Second working session Hands on NGS analysis using the EBioKit analysis suite command line	Andreas Gisel All other trainers
1530 - 1630	Introduction to some NGS applications	Andreas Gisel
1630-1645	General Discussion and closing	
DAY 4: THURSDAY, 4 DECEMBER		
0900-1100	First session: Hands on NGS analysis using the EBioKit command-line analysis suite	Andreas Gisel All other trainers
1100-1130	Tea/coffee break	

Time	Activity	Trainers/resource person
1130-1330	Second working session Hands on NGS analysis using the eBioKit command line analysis	Andreas Gisel All other trainers
1330-1410	Lunch	
1410-1600	Second working session UGENE: GUI based bioinformatics software for Desktop environment visualization of NGS data	Andreas Gisel All other trainers
1600-1610	General Discussion and closing	
DAY 5: SATURDAY, 6 DECEMBER		
0900-1130	First session: Lecture and Hands on Multiple sequence Alignments and Phylogeny and hands on session	Mark Wamalwa/Joyce Njuguna
1130-1200	Tea Coffee	
1200-1300	Distribution of Certificates and Closing Remarks	Dr. Nada Babiker Hamza
1300-1400	Lunch	