

## Programme

### Introduction to Bioinformatics using the eBioKit Platform

National Agricultural Research Organisation, Uganda

November 10 - 14, 2014

Time	Activity	Trainers/resource person
DAY 1: MONDAY, 10 NOVEMBER		
0900-0930	<i>Arrival and Registration</i>	
	<i>Welcome and Opening Session</i>	
0935-0945	Welcome address by a representative of NARO	Dr. Andrew Kiggundu
0950-1015	BecA-ILRI Hub presentation and Capacity Building	Joyce Njuguna (BecA-ILRI Hub)
1015-1030	Participants introduction and expectations	Dr. Andrew Kiggundu
1030-1100	Tea / Coffee break	
1100-1230	<b>First Session:</b> Introduction to Bioinformatics lecture	Joyce Njuguna (BecA-ILRI Hub)
1230 - 1330	Lunch break	
1330-1530	<b>Lecture/Hands-on:</b> Bioinformatic resources for data management	Joyce Njuguna (BecA-ILRI Hub)
1530 - 1600	General Discussion and closing	

Time	Activity	Trainers/resource person
<b>DAY 2: TUESDAY, 11 NOVEMBER</b>		
0900-1000	<b>First Session:</b> Introduction to the EBioKit analysis suite	Hadrien Gourle (SLU)
1000-1100	<b>Lecture and hands on session:</b> Database searching using BLAST	Hadrien Gourle (SLU)
1100-1130	Tea/coffee break	
1100-1330	<b>Lecture and hands on session:</b> Introduction to the EMBOSS package	Joyce Njuguna/Dedan Githae
1330-1430	Tea/coffee break	
1430-1615	<b>Second working session:</b> Hands on Nucleotide and Protein Sequence Analysis Using EMBOSS	Dedan
1615-1630	General Discussion and closing	
<b>DAY 3: WEDNESDAY, 12 NOVEMBER</b>		
0900-1100	<b>First Session:</b> Multiple sequence alignments and Phylogenetics	Joyce Njuguna
1100-1130	Tea/coffee break	
1130-1330	Practical session of MSA and Phylogenetics	Joyce Njuguna
1330-1400	Tea/coffee break	

Time	Activity	Trainers/resource person
1400-1600	<b>Second working session:</b> Introduction to Ensemble Resources (Lecture and Hands-on)	Joyce Njuguna/Dedan Githae
1600-1630	General Discussion and closing	
<b>DAY 4: THURSDAY, 13 NOVEMBER</b>		
0900-1000	<b>First session:</b> Introduction to Next Generation Sequencing	Hadrien Gourle (SLU)
1000-1030	Tea/Coffee break	
1030-1330	<b>Hands on</b> NGS analysis using the EBioKit analysis suite (GALAXY)	Hadrien Gourle (SLU)/ Joyce Njuguna/Dedan Githae
1330-1400	Lunch	
1400-1600	<b>Second working session</b> Hands on NGS analysis using the EBioKit analysis suite (GALAXY) continues	Hadrien Gourle/Joyce Njuguna/Dedan Githae
1600-1630	General Discussion and closing	
<b>DAY 5: FRIDAY, 14 NOVEMBER</b>		
0900-1100	<b>First session:</b> Practical Continued Hands on NGS analysis using the EBioKit analysis suite (GALAXY)	Hadrien Gourle /Joyce Njuguna/Dedan Githae
1100-1130	Tea/Coffee break	

Time	Activity	Trainers/resource person
1130-1330	<b>Second working session</b> <b>UGENE:</b> GUI based bioinformatics software for Desktop environment Making multiple alignment, phylogenetic trees, visualization of NGS data	Joyce Njuguna/Dedan Githae
1330-1400	Lunch	
1400-1600	Second working session continued Question and Answer	Joyce Njuguna/Dedan Githae
1600-1620	<b>Distribution of Certificates and Closing Remarks</b>	