

**BIOTECHNET Training course in collaboration between ICGEB and BETin in Ethiopia**  
**Venue: BETin, Addis Ababa, Ethiopia**  
**July 24-28, 2023**

Time	Schedule		Responsible body	
			Lead facilitator	Co-facilitator
	Team-1	Team-2		
<b>Day-1</b>				
8:30 – 9:00	Registration		Organizing committee	Dr. Hailu Dadi
09:00 – 09:30	Opening Speech		Dr. Kassahun Tesfaye	
09:30 – 10:00	Participant Introduction		All Participant's	
10:00 – 10:20 AM	Tea break			
10:20 – 10:50	Training Objectives		Dr. Molalgne Bitew	Dr. Molalgne B.
10:50 – 12:30	SARS-CoV-2 Omics		Dr. Alesandro Marcello/ Dr. Andargachew Mulu	
12:30 – 01:30	Lunch Break			
01:30 – 03:30	<ul style="list-style-type: none"> <li>✓ RNA Extraction</li> <li>✓ PCR Detection</li> </ul>	<ul style="list-style-type: none"> <li>✓ Anneal RNA</li> <li>✓ Synthesize First Strand cDNA</li> </ul>	Mesfin M. Kalkidan M. Keyru T. Kominist A.	Tamrayehu S.
03:30 – 03:50 PM	Tea break			
03:50 – 05:00	<ul style="list-style-type: none"> <li>✓ RNA Extraction</li> <li>✓ PCR Detection Continued</li> </ul>	<ul style="list-style-type: none"> <li>✓ Amplify cDNA</li> </ul>	Mesfin M. Kalkidan M.	Tamrayehu S.
<b>Day-2</b>				
09:00 – 10:30	<ul style="list-style-type: none"> <li>✓ Anneal RNA</li> <li>✓ Synthesize First Strand cDNA</li> </ul>	<ul style="list-style-type: none"> <li>✓ Tagment PCR Amplicons</li> <li>✓ Post Tagmentation Clean Up</li> <li>✓ Amplify Tagmented Amplicons</li> </ul>	Mesfin M. Kalkidan M.	Tamrayehu S.
10:30 – 10:50 AM	Tea break			

10:50 – 12:30	✓ Amplify cDNA	✓ Pool and Clean Up Libraries	Mesfin M. Kalkidan M.	Tamrayehu S.
12:30 – 01:30	Lunch			
01:30 – 03:30	✓ Tagment PCR Amplicons ✓ Post Tagmentation Clean Up ✓ Amplify Tagmented Amplicons	✓ Quantify and Normalize Libraries	Mesfin M. Kalkidan M.	Tamrayehu S.
03:30 – 03:50 PM	Tea break			
03:50 – 05:00	✓ Pool and Clean Up Libraries		Mesfin M. Kalkidan M.	Tamrayehu S.
<b>Day-3</b>				
09:00 – 10:30	✓ Quantify and Normalize Libraries	✓ Extraction and Detection	Mesfin M. Kalkidan M.	Tamrayehu S.
10:30 – 10:50 AM	Tea break			
10:50 – 12:30	✓ Pool and Dilute Libraries	✓ Extraction and Detection continued ✓ Pool and Dilute Libraries	Mesfin M. Kalkidan M.	Tamrayehu S.
12:30 – 01:30	Lunch			
01:30 – 03:30	✓ Loading	✓ Loading	Tamrayehu S.	Mesfin M. Kalkidan M.
03:30 – 03:50 PM	Tea break			
03:50 – 05:00	✓ Discussion and Recap	✓ Discussion and Recap	Tamrayehu S.	Mesfin M. Kalkidan M.
<b>Day-4</b>				
08:30 – 10:00	✓ Introduction to Bioinformatics		Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
10:30 – 10:50 AM	Tea break			
10:50 – 12:30	✓ Introduction to Bioinformatics Continued		Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.

12:30 – 01:30	Tea break		
01:30 – 03:30	✓ QC of NGS Data	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
03:30 – 03:50 PM	Tea break		
03:50 – 05:00	✓ Genome Assembly and alignment	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
<b>Day-5</b>			
09:00 – 10:30	✓ Variant identification for SARS-CoV-2	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
10:30 – 10:50 AM	Tea break		
10:50 – 12:30	✓ Evolution of SARS-CoV-2 ✓ Phylogenetic Tree	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
12:30 – 01:30	Tea break		
01:30 – 03:30	✓ Discussion on overall training	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.
03:30 – 03:50 PM	Tea break		
03:50 – 05:00	✓ Certification and closing ceremony	Bethlehem Adnew/ Abaysew Ayele	Dr. Molalgne B.