

Marine Bioinformatics Hackathon: Biodiversity, Genomics, and Nextflow Pipelines.

Venue: Nile University 29-31 October 2026

Day 1 (29- 10 -2025)	
Timeline	Lectures and practical sessions
9:30 – 10:00	Registration
10:00 - 10:15	Welcome Note (Dr. Asmaa Abushady) - Room 357, UB1
10:15 - 11:15	Lec1. Biodiversity Genomics in the '-Omics' Era (Dr.Abdollah Sharaf) - Room 357, UB1
11:15 – 12:15	Lec2. Biodiversity Loss in Marine Biology (Dr. Mohamed E. Hassan) - Room 357, UB1 ?????
12:30 – 13:30	Lec3. Comparison between Long-read and short-read sequencing technology (Dr. Mohamed E.Hassan) ????- Room 357, UB1
13:30 – 14:00	Coffee break - Appetizers
14:00- 15:00	Lec4. Describing the difference between 16S/shotgun in microbial analysis (Shaimaa and Assem) - Room 53, UB1
15:00- 16:30	Practical Session 1: Quick tutorial on galaxy platform and illustration for the selected pipeline (Shaimaa and Assem) - Room 53, UB1

Day 2 (30 - 10 -2025)	
Timeline	Lectures and practical sessions
9:30 – 10:30	Lec1.Integrated metagenome-metabolome analysis reveals coral responses to ocean warming (Dr. Amin Roshdy) - Room 357, UB1
10:30 – 11:30	Lec2. ?????? (Dr. Marwa OR Dr.Yasser) - Room 357, UB1
11:30 – 12:30	Practical Session1. Getting data and QC (Shaimaa and Assem) - Room 357, UB1
12:30 - 13:30	Practical Session2. Sequence alignment (Shaimaa and Assem) - Room 53, UB1
13:30 – 14:30	Coffee break - Appetizers
13:00- 15:00	Practical Session3: Extraction of Taxonomic Information (Shaimaa and Assem) - Room 53, UB1
15:00- 15:30	Practical Session3. Visualization (Shaimaa and Assem) - Room 53, UB1
15:30 – 16:30	Exploring Assignment and Project Ideas - Room 53, UB1
16:30 – 17:00	Coffee break
17:00 – 18:00	Assignment and Project Discussion Wrap Session - Room 53, UB1

Day 3 (31- 10-2025)	
Timeline	Lectures and practical sessions
9:30 – 11:00	Workflow management with Nextflow
11:00 – 11:30	Coffee break - Appetizers
12:00 – 13:00	Introduction to nf-core
13:00 - 13:30	Prima Project activities (Dr.Aasmaa Abushady) - Room 367, UB1
13:30 – 14:00	Closing Ceremony

Visit the links below to access workshop practical materials

https://drive.google.com/drive/folders/1fCm6gp2tY-7LLAp-PI-n5aMfiCd85pJY?usp=share_link

Please Note:

- Lectures' materials will be uploaded by the end of the workshop