

3 Day Workshop on Microbiome Analysis

Hosted by Matin Nuhamunada, M.Sc.
Lab. of Biotechnology, Fac. of Biology UGM
3 - 5 December 2018

Agenda

Day 1 - Monday, 3 December 2018

Time	Session	Speakers / Mentors	Place
08.00 - 08.15	Registration		Ruang Kuliah 3, Lantai 1, Gedung B
08.15 - 08.30	Opening remarks & greetings	Matin Nuhamunada	
08.30 - 09.30	Lecture 1 <i>Metabarcoding & Metagenomic analysis for Microbiome Studies</i>	Matin Nuhamunada	
09.30 - 09.45	Break		
09.45 - 10.20	Brainstorming <i>Each participant introduces themselves and explain their research interest</i>	Matin Nuhamunada	
10.20 - 10.30	Group Photo Session		
10.30 - 11.30	Lecture 2 <i>Experiment Design in Clinical Microbiology: Population, Sample, & Ethics</i>	R. Ludhang Pradipta Rizki	Ruang Pelatihan Perpustakaan, Lantai 3, Gedung B
11.30 - 12.00	Computer Set Up & Preparation	Gregorius Altius & Ahmad Ardi	
12.00 - 13.00	Lunch		
13.00 - 15.00	Bioinformatic Practical 1 <i>MiSeq Microbiome Analysis using Galaxy</i>	Gregorius Altius & Ahmad Ardi	
15.00 - 16.30	Introduction to Wetlab	Matin Nuhamunada	

Day 2 - Tuesday, 4 December 2018

Time	Session	Speakers / Mentors	Place
08.00 - 08.30	Registration		Laboratorium Bioteknologi, Lantai 3, Gedung A
08.30 - 09.00	Laboratory Induction	Lab. Assistant	
09.00 - 09.15	Break		
09.15 - 12.00	Wetlab Practical <ul style="list-style-type: none">• <i>Microbiome DNA Extraction</i>• <i>PCR Amplification</i>• <i>Gel Electrophoresis</i>	Lab. Assistant	

12.00 - 13.00	Lunch		
13.00 - 15.00	Wet Lab Discussion	Lab. Assistant	

Day 3 - Wednesday, 5 December 2018

Time	Session	Speakers / Mentors	Place
08.00 - 08.30	Registration		Ruang Pelatihan Perpustakaan, Lantai 3, Gedung B
08.30 - 09.30	Lecture 3 <i>Functional Metagenomics: Understanding Microbiome Roles & Interaction</i>	Matin Nuhamunada	
09.30 - 09.45	Break		
09.45 - 11.00	Bioinformatic Practical 2 <i>Exploring Microbiome Data in EBI MGnify & Visualization using MEGAN</i>	Gregorius Altius & Ahmad Ardi	
11.00 - 12.00	Lecture 4 <i>Genome Mining of Small Molecules from Microbiome</i>	R. Afif Pranaya Jati	
12.00 - 13.00	Lunch		
13.00 - 14.00	Bioinformatic Practical 3 <i>Biosynthetic Gene Clusters Analysis using AntiSMASH</i>	R. Afif Pranaya Jati	
14.00 - 16.00	Brainstorming & Wrap Up		