

Background

Molecular biology is one of the most advanced subjects in biology. The curiosity of studying nature of living objects has brought a lot of improvement in many techniques to study the molecular of living objects especially human. With its complicated aspect of molecular biology and relation with diseases, the ability to use the molecular techniques properly will give a lot of benefit not only for the patients but also for the advancement of science. Since the description of heredity of traits by Mendel in late 1800, molecular biology has much improved. The recognition of DNA structure was also the main highlight to open the future of molecular biology.

In 50 years, so many new discoveries and techniques found to support the research especially in genetic and medicine. Diponegoro University as one of research universities wants to introduce the molecular biology techniques including the useful but classic techniques such as PCR and RFLP into the highly new and sophisticated techniques such as whole exons sequencing in order to encourage scientists, doctors, practitioners and others to improve their science.

Date and Venue

Wednesday, June 5, 2013
Central Laboratory of Research
and Service - Diponegoro University
(CORES-DU)
Jl. Prof. Soedharto SH, Tembalang A Semarang
Telp: 02476918147/Fax: 02476918148

Program

Date	Time	Subject	Speaker
Wednesday June 5th 2013		Registration	Committee
	08.00 - 08.10	Opening speech by Chairperson of Committee	Chairperson
	08.10 - 08.20	Opening speech by Rector	Rector of Diponegoro
	08.20 - 09.00	Chromosome and DNA structure in human	Tri Indah Winarni, MD, MSc
	09.00 - 09.45	PCR as basic molecular technique and RFLP application in Indonesia	Sultana MH Faradz, Prof, MD, PhD
	09.45 - 10.30	Application of Multiplex Ligation dependent Probe Amplification (MLPA) technique to identify genetic abnormalities	Farmaditya EP Mundhofir, MD, PhD
	10.30 - 10.45	Coffee break	
	10.45 - 11.45	Microarray as advanced molecular technique	Rob Collin, PhD
	11.45 - 12.30	Mutation screening using High Resolution Melting (HRM)	Ferdy K. Cayami, MD, MSc
	12.30 - 13.30	Lunch Break and Praying Time	
	13.30 - 14.15	Sequencing as gold standard of molecular technique	Bahrudin, MD, PhD
	14.15 - 15.15	Transposon mutation to decipher the function of unknown genes	Anto Budihardjo, M. Biotech, PhD
	15.15 - 15.30	Coffee break	
	15.30 - 16.00	Whole Exome sequencing	Susanne Roosing, MSc
16.30 - 17.00	Closing		