

Schedule for 2310523
 GENOMICS AND PROTEOMICS (2 credits)
 Second semester (2019)

Time: TU 10.00 - 12.00

Room: 519

Co-ordinator: Kunlaya

Topic	Hrs.	Date	Instructor
1. Genome Features (a review) 1.1 Morphology and classification 1.2 Genome size and shape 1.3 Gene content and organization	2	7 Jan	Anchalee
2. Genome Analysis 2.1 Physical mapping and sequencing of genome 2.2 The Human Genome Project	2	21 Jan	Anchalee
2.3 Sequencing project of model organisms 2.4 Comparative genomics	4	28 Jan, 4 Feb	Anchalee
3. Analysis of transcriptome 3.1 Analysis of gene expression 3.2 Expressed sequence tags (ESTs) 3.3 Serial analysis of gene expression 3.4 Differential display 3.5 DNA microarray	6	11 Feb, 18 Feb, 25 Feb	Teerapong
Mid-term examination:			
4. Proteomics and applications			
4.1 Proteomics			
· Introduction to proteomics	2	10 March	Kunlaya
· Expression Proteomics	4	17 March, 24 March	Kunlaya
· Structural Proteomics	4	31 March, 7 April	Kuakarun
· Interaction Proteomics	2	21 April	Kunlaya
4.2 Applications	2	28 April	Kunlaya
Final examination:			