

**Online**

Schedule for 2310523  
 GENOMICS AND PROTEOMICS (2 credit)  
 second semester (2021)

Time: TU 10.00 - 12.00		Co-ordinator: Anchalee (anchalee.k@chula.ac.th)	
Online		Platform Microsoft Teams: 2310523 Genomics & Proteomics_2022	
		code : MT CODE: g651jb3	
Topic		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	11 Jan 22	Anchalee
2. Genome Analysis 2.1 Physical mapping and sequencing of genome 2.2 The Human Genome Project	2	18 Jan 22	Anchalee
2.3 Sequencing project of model organisms 2.4 Comparative genomics	4	25 Jan , 1 Feb 22	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	8, 15, 22 Feb 22	Teerapong
<b>Mid-term examination 7 - 11 Mar 2022: 9 Mar 2565 (13:00-16:00)</b>			
4. Proteomics and applications			
4.1 Proteomics			
· Introduction to proteomics	2	15 March	Kunlaya
· Expression Proteomics	4	22, 29 March	Kunlaya
· Structural Proteomics	4	5, 12 April	Kuakarun
· Interaction Proteomics	2	19 April	Kunlaya
4.2 Applications	2	26 April	Kunlaya
<b>Final examination 9 - 24 May 2022: 10 May 2565 (13:00-15:00)</b>			