

MOLECULAR BIOLOGY OF GENE (3 credits)

First semester (2025)

Time: WE 13.00 - 14.00 Room: SCI10 521		Co-ordinator: Vorrapon	
FR 10.00 - 12.00 Room: SCI10 521			
Topic	Hrs.	Date	Instructor
1. Genome structures and comparative genomics	6	8/6, 8/8, 8/13, 8/15	Anchalee
2. Mutability and repair of DNA	5	8/20, 8/22, 8/27, 8/29 (1)	Anchalee
3. Regulation of gene expression in prokaryotes	3	9/3, 9/5	Vorrapon
4. Regulation of gene expression in eukaryotes	5	9/10, 9/12, 9/17, 9/19 (1)	Vorrapon
Mid-term examination: 22 - 26 Sep 2025; 22 Sep 2025 13:00 - 16:00 น.			
5. Cell cycle and programmed cell death	3	10/1, 10/3	Pattana
6. Abnormalities resulting from gene alterations 6.1 Inborn errors of metabolism 6.2 Cancer: oncogenes and tumor suppressor genes	4	10/8, 10/10, 10/15	Pattana
7. Application of gene technology 7.1 Recombinant DNA technology 7.2 GMOs 7.3 Stem cells 7.4 Gene therapy 7.5 Recombinant vaccines	8	10/17, 10/22, 10/24, 10/29, 10/31	Manchumas
7.6 Functional genomics	7	11/5, 11/7, 11/12, 11/14, 11/19	Napol
Final-term examination: 24 Nov - 8 Dec 2025; 26 Nov 2025 08:30 - 11:30 น.			