

Medical Biochemistry and Molecular Biology (MD637702) 2 credits

Second semester, Academic Year 2024

Date/ Time: Friday 10 am - noon Room: MDBC1

Course Coordinators:

1) Assoc. Prof. Dr. Kanlayanee Sawanyawisuth (KS) email: kanlayanee@kkumail.com

2) Asst. Prof. Dr. Chalongchai Chalermwat (CC) email: cchanl@kku.ac.th

Week	Date	Topic	Hour	Lecturer
1	22 Nov 2024	Orientation	1	KS/CC
2	29 Nov 2024	1: Regulation of gene expression in prokaryotes and eukaryotes: applications in medicine	2	WoL
3	6 Dec 2024	SDL	-	-
4	13 Dec 2024	2: Pre-mRNA splicing and RNA editing	2	RnT
5	20 Dec 2024	3: Gene silencing (miRNA and siRNA)	2	KS
6	27 Dec 2024	4: Protein splicing and protein editing	2	OP
7	3 Jan 2025	5: Protein structure	2	PM
8	10 Jan 2025	6: Medical glycobiology	2	AS
9	17 Jan 2025	Exam 1 (Topic 1-6) *9 am-noon	3	KS/CC
10	24 Jan 2025	7: Protein targeting	2	SL
11	31 Jan 2025	8: Enzyme catalysis	2	KK
12	7 Feb 2025	9: Signal transduction and roles in medicine	2	CC
13	14 Feb 2025	10: Oxidative stress and antioxidants	2	RnT
14	21 Feb 2025	11: Special lecture (Will be announced, WBA)	2	Dr. Siriporn
15	28 Feb 2025	Assigned reading (AR): WBA	2	CC/KS
16	7 Mar 2025	Exam 2 (Topic 7-11) *9 am-noon	3	KS/CC

Lecturers:

1. Kanlayanee Sawanyawisuth (KS)	2. Chalongchai Chalermwat (CC)	3. Sukanya Luang (SL)
4. Worachart Lert-itthiporn (WoL)	5. Atit Silsirivanit (AS)	6. Raynoo Thanan (RnT)
7. Panupong Mahalapbutr (PM)	8. Kantapich Kongpol (KK)	9. Orasa Panawan (OP)

Special guest: Assoc.Prof.Dr.Siriporn Prongvitaya, Department of Medical Technology, Faculty of Associated Medical Sciences, KKU

Evaluation: Passing level $\geq 60\%$ = B grade or S (Audit)

1. Lecture (11 topics)	=	60%
2. Assigned reading	=	10%
3. Quiz/ assignment	=	30%

Evaluation by exam score as a percentage: $> 75\%$ = A, $70-75\%$ = B+, $60-69\%$ = B, < 60 = C+