Laboratory techniques in medical biochemistry (SIBB 511)

Credit 1 (0-2-1)

Tuesday- Friday 1.00 – 4.00 pm

9,10th Fl. Srisavarindira building

Course coordinator: Primana Punnakitikashem

Phone 02-419-9133, E-mail: primana.pun@mahidol.ac.th

Week	Date	Topic	Lecturer	Teaching staff
1	6 August 2026	Introduction to basic biochemistry techniques	Primana	Jarichad, Sirinapa, Punyawee
	7 August 2026			
2	13 August 2026	Spectrophotometry	Comzit	Saiphon, Punyawee
	14 August 2026	Spectrofluorometry	Chanatip	Punyawee, Sarawut
3	21 August 2026	Gel-filtration chromatography	Chanatip	Sirinapa, Nutnicha
4	25 August 2026	High-performance liquid chromatography	Chayanon	Wannisa, Anchaleekorn
5	3 September 2026	Tissue culture technique	Kongtana	Saiphon, Nutnicha, Punyawee
	4 September 2026			
6	15 September 2026	MS-based metabolomics Data analysis	Sakda	Narumol, Suphitcha
	16 September 2026			
7	14 September 2026	Protein isolation and purification methods	Chayanon	Anchaleekorn, Supannee, Jarichad
	18 September 2026			
8	22 September 2026	Enzyme kinetics	Wichit	Supannee, Chutipong

Laboratory techniques in molecular biology (SIBB 510)

Credit 2 (0-4-2)

Tuesday- Friday 1.00 – 4.00 pm 9,10th Fl. Srisavarindira building

Course coordinator: Primana Punnakitikashem Phone 02-419-9133, E-mail: primana.pun@mahidol.ac.th

Week	Date	Topic	Lecturer	Teaching staff
1	6 October 2026	Molecular cytogenetics	Vorapan	Witchuda
2	20 October 2026	Sequencing technique	Varodom	Dr.Theeraphong, Numpueng, Patcharee, Nattha
3	27 October 2026	SDS-PAGE, Western blotting	Chalermchai /Comzit	Jarichad, Nutnicha,Chutipong
	28 October 2026			
	29 October 2026	DNA extraction, quantification and electrophoretic analysis		Jarichad, Saiphon, Supannee
	30 October 2026			
4	3 November 2026	DNA recombination and cloning	Chalermchai/Wonnop	Jarichad, Supannee, Anchaleekorn
	4 November 2026			
	5 November 2026			
	6 November 2026			
5	12 November 2026	Enzyme-linked immunosorbent assay	Chayanon/Comzit	Suneerat, Anchaleekorn, Chutipong, Patcha
	13 November 2026			
6	17 November 2026	conventional PCR and quantitative PCR	Chatchawan	Chayapol, Sirinapa, Patcha
	18 November 2026			
	19 November 2026			

7	24 November 2026	Bioinformatics	Bhoom	
	25 November 2026			
	26 November 2026		Chayanon	
	27 November 2026			
8	1 December 2026	Flow cytometry	Primana	Suneerat, Chayapol