

3000757 Protein Expression and Purification

การแสดงออกของโปรตีน และการสกัดโปรตีนบริสุทธิ์

Semester 1/2022

Time and venue: Lectures **Friday** 2.00-4.00 pm. at room number 218, Pattayapat BuildingLab session **Friday** 1.00-3.00 pm. at room number 807, Pattayapat Building

Week	Date	Topics	Instructor
1	19 Aug, 2022	Introduction. Recombinant protein expression in bacteria	Prof. Alain Jacquet
2	26 Aug, 2022	Recombinant protein expression in bacteria	Prof. Alain Jacquet
3	2 Sep, 2022	Recombinant protein expression in yeast	Prof. Alain Jacquet
4	9 Sep, 2022	Recombinant protein expression in mammalian and insect cells	Prof. Alain Jacquet
5	16 Sep, 2022	Protein detection and quantification (SDS-PAGE, Immunodetection, protein assays)	Prof. Alain Jacquet
6	23 Sep, 2022	Protein purification Celllysis, Precipitation, concentration, ultrafiltration, purification strategy, instrumentation, chromatographic techniques (part 1) ,	Prof. Alain Jacquet
7	30 Sep, 2022	Protein purification Chromatographic techniques (part 2)	Prof. Alain Jacquet
8	7 Oct, 2022	Protein purification Chromatographic techniques including fusion/taggedproteins (part 3)	Prof. Alain Jacquet
9	14 Oct, 2022	Holiday	
10	21 Oct, 2022	Lab session 1	Prof. Alain Jacquet
11	28 Oct, 2022	Lab session 2	Prof. Alain Jacquet
12	4 Nov, 2022	Lab session 3	Prof. Alain Jacquet
13	TBA	Self-study	SDL
14	11 Nov, 2022	Self-study	SDL
15	18 Nov, 2022	Self-study	SDL
16	25 Nov, 2022	Self-study	SDL
17	2 Dec, 2022	Final Exam	Prof. Alain Jacquet