Schedule for 2310555

GENE ENGINEER LAB (2 credits) <mark>นิสิตไม่มีคนลงทะเบียนเรียนเลย</mark>

Second semester (2020)

Time: MO 09.00 - 16.00 LAB room 605;

LAB room 605;	Co-ordinator: Tanakarn			
Торіс	Hrs	Date	1st	2nd
			Instructor	Instructor
i.				
1.1 Orientation	1		Tanakarn	
1.2 Brief chromosomal and plasmid DNA extractions	2	- 14-Aug-20	Tanakarn	
1.3 Reagent preparation for plasmid extraction	3		Tanakarn	
1.4 Brief PCR and cloning	1		Tanakarn	
1.5 PCR	3	21-Aug-20	Tanakarn	
1.6 Chromosomal and plasmid extraction	2		Tanakarn	
1.7 Agarose gel electrophoresis of PCR product and	3	29 Aug 20	Tanakarn	
plasmid		28-Aug-20		
1.8 Discussion	3		Tanakarn	
II			Pawinee	
2.1 Brief restriction enzyme digestion and ligation	1		Pawinee	
2.2 Restriction enzyme digestion	2	4-Sep-20	Pawinee	
2.3 Ligation	3		Pawinee	
2.4 Brief transformation	3	11-Sep-20	Pawinee	
2.5 Reagent preparation and transformation	3		Pawinee	
2.6 Brief clone identification	2		Pawinee	
2.7 Plasmid extraction	1	18-Sep-20	Pawinee	
2.8 Restriction analysis and colony PCR	3		Pawinee	
2.9 Discussion	3	25-Sep-20	Pawinee	
Mid-ter	m examina	ation:		
II.				
3.1 Brief side-directed mutagenesis	1	16-Oct-20	Kittikhun	
3.2 Site-directed mutagenesis and error-prone PCR	5		Kittikhun	
3.3 Transformation of site-directed mutagenesis	1		Kittikhun	1
3.4 Gel electrophoresis, gel extraction, ligation, and	5	30-Oct-20	Kittikhun	1
transformation of error-prone PCR reaction				
3.5 Analysis of mutagenesis results	6		Kittikhun	1
3.6 Discussion	3	6-Nov-19 (am)	Kittikhun	
V.				
4.1 Brief RNA extraction	1	7	Tanakarn	1

4.2 Preparation of chemicals & glassware, induction of expression and cell	2	6-Nov-19 (pm)	Tanakarn			
collection		ل				
4.3 RNA extraction, SDS-PAGE of whole cells	3	7	Tanakarn			
4.4 Quantitative and quanlitative determination-	3	L	Tanakarn			
agarose gel electrophoresis,		13-Nov-20				
Brief gene expression analysis		ل				
4.5 DNase treatment of total RNA	3	7	Supaart			
4.6 Reverse transcription	3	20-Nov-20	Supaart			
4.7 PCR	2	1	Supaart			
4.8 Agarose gel electrophoresis	3	27-Nov-20	Supaart			
4.9 Discussion	3	นัดเพิ่ม	Supaart			
Final examination:						