

SCID511 GENE TECHNOLOGY

(วทศร 511)

November 8 - 29, 2024

Course Coordinator: Dr. Waraporn Komyod

Period	Date/Time	Room	Topic	Staff
1	Nov 8, 2024 13:00-14:30	B301	Principle of gene cloning: recombinant DNA technology, expression system: bacterial, yeast and mammalian	SC
2	Nov 11, 2024 13:00-14:30	B301	Isolation and analysis of cloned genes I: restriction enzyme analysis, Southern blotting, PCR, agarose gel electrophoresis	OI
3	Nov 12, 2024 13:00-14:30	B301	Special Techniques for DNA Cloning: topoisomerase mediated, homologous & site specific, ligation independent, <i>in vitro</i> and <i>in vivo</i> cloning	JM
4	Nov 14, 2024 13:00-14:30	B301	Isolation and analysis of cloned genes II: DNA sequencing and site- directed mutagenesis	TK
5	Nov 15, 2024 13:00-14:30	B301	Analysis of gene expression: RT-PCR, real-time PCR, Northern and Western blotting	WK
6	Nov 18, 2024 13:00-14:00 14:00-16:00	B301 MDL3	Brief Lab Lab 1: Cloning and transformation	JM SC, JM, OI TK, WK, TA
7	Nov 19, 2024 13:00-16:00	MDL3	Lab 2: Selection of transformants and PCR	SC, JM, OI TK, WK, TA
8	Nov 21, 2024 13:00-16:00	MDL3	Lab 3: Minipreparation of plasmid, RE digestion	SC, JM, OI TK, WK, TA
9	Nov 22, 2024 13:00-16:00	MDL3	Lab 4: Agarose gel electrophoresis	SC, JM, OI TK, WK, TA
10	Nov 25, 2024 13:00-15:00	B301	Lab Discussion	JM/WK
11	Nov 29, 2024 13:00-16:00	MDL3	Exam	TA

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