

CELL & MOLECULAR BIOLOGY (SCID500) Credit 3(3-0-6)

COURSE SCHEDULE

June 25-July 26, 2018

Faculty of Science, Mahidol University

DATE	TIME		TOPIC	Room	LECTURER
Mon June 25	0830-0900		Registration		
	0900-0930		Introduction to the Course	L02	Kittisak
	0930-1200		How to Explore the Cell/Group Activities	L02	Patompon
<u>Unit I : Life and Information Flow in Cell</u>					
Tu June 26	0900-1000	L1	Water and Life	L02	Jirundon/ Danaya
	1000-1200	L2,3	Biomolecules of Cells	L02	Jirundon/ Danaya
Wed June 27	0900-1100	L4,5	Chemical Nature of Genetic Materials & DNA Replication	L02	Laran/ Waraporn
Th June 28	0900-1100	L6,7	Gene Expression	L02	Laran/ Waraporn
Fri June 29	0900-1100	L8,9	Gene Regulation	L02	Laran/ Waraporn
Mon July 2	0900-1100	L10,11	Gene Technology	L02	Laran/ Waraporn
<u>Unit II : Energy Flow in Biosystem</u>					
Tu July 3	0900-1100	L12,13	The Catalysts of Life	L02	Ruchanok/ Jirundon
	1100-1200	L14	Bioenergetics	L02	Ruchanok/ Jirundon
Wed July 4	0900-1000	L15	Chemical Metabolisms	L02	Ruchanok/ Jirundon
	1000-1100	L16	Chemotrophic & Phototrophic Energy Metabolisms	L02	Ruchanok/ Jirundon
Th July 5	0900-1000		Questions & Answers	L02	Jirundon
	1000-1100				Laran
	1100-1200				Ruchanok
Fri July 6	0900-1200		EXAM Unit I-II (L1-16)		Room MDL1, MDL3
<u>Unit III : Cell Structure and Function</u>					
Mon July 9	0900-1100	L17,18	Membrane: Structure and Transport Function	L02	Jonggonnee/ Witchuda
Tu July 10	0900-1000	L19	Mitochondria, chloroplast and peroxisomes	L02	Amornrat/ Laran
	1000-1100	SL1	The role of reactive oxygen species (ROS) in cancer development and progression	L02	Prasit
Wed July 11	0900-1100	L20,21	ER, Golgi and lysosomes	L02	Puey/ Laran
Th July 12	0900-1100	L22,23	Cytoskeleton	L02	Puey/ Amornrat
	1100-1200	L24	Nucleus	L02	Amornrat/ Puey
<u>Unit IV : Cell Signaling</u>					
Fri July 13	0900-1100	L25,26	Cell Adhesion and Extracellular Substances	L02	Krai/ Puey
Mon July 16	0900-1100	L27,28	Electrical Signaling in Excitable Cells	L02	Jonggonnee/ Witchuda
	1100-1200	SL2	Special Lecture 2	L02	Chatchai
Tu July 17	0900-1200	L29,30,31	Cell Surface Receptors and Intracellular Signal Transduction	L02	Arthit/ Nattapon

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Wed July 18	0840-0920		Questions & Answers	L02	Jonggonnee
	0920-1000				Puey
	1000-1040				Amornrat
	1040-1120				Krai
	1120-1200				Arthit
Th July 19	0900-1200		EXAM Unit III-IV (L17-31)	Room MDL3-4	
<u>Unit V : Cell Division, Cellular Differentiation, Cell Death and Development</u>					
Fri July 20	0900-1100	L32,33	Cell Division	L02	Rutaiwan/ Rapee
	1100-1200	L34	Cell Cycle & Cell Death	L02	Rutaiwan/ Rapee
Mon July 23	0900-1100	L35,36	Cell Development	L02	Somyoth/ Rapee
	1100-1200	L37	Cell Differentiation	L02	Somyoth/ Rapee
Tu July 24	0900-1000		Questions & Answers	L02	Rutaiwan
	1000-1100				Somyoth
Wed July 25			Self-study		
Th July 26	0900-1100		EXAM Unit V (L32-37)	Room MDL3-4	