

**CELL & MOLECULAR BIOLOGY (SCID500) Credit 3(3-0-6)****COURSE SCHEDULE****Jun 28-Aug 4, 2017****Faculty of Science, Mahidol University**

DATE	TIME		TOPIC	Room	LECTURER
Wed 28 Jun	0830-0900		Registration		
	0900-0930		Introduction to the Course	L01	Kittisak
	0930-1200		How to Explore the Cell/Group Activities	L01	Patompon
<b>Unit I : Life and Information Flow in Cell</b>					
Th 29 Jun	0900-1000	L1	Water and Life	L02	Jirundon/ Danaya
	1000-1200	L2,3	Biomolecules of Cells	L02	Jirundon/ Danaya
	1300-1500		Self-study		
Fri 30 Jun	0900-1100	L4,5	Chemical Nature of Genetic Materials & DNA	L02	Laran/ Waraporn
			Replication		
	1300-1500		Self-study		
Mon 3 Jul	0900-1100	L6,7	Gene Expression	L02	Laran/ Waraporn
	1300-1500		Self-study		
Tu 4 Jul	0900-1100	L8,9	Gene Regulation	L02	Laran/ Mathurose
	1300-1500		Self-study		
Wed 5 Jul	0900-1200	L10,11	Gene Technology	L02	Laran/ Mathurose
	1300-1500	Q&A	Questions & Answers	L02	Jirundon/ Laran
Th 6 Jul			Self-study		
Fri 7 Jul	0900-1200		EXAM Unit I (L1-11) (77 points)	Room MDL1, 2	
Mon 10 Jul			Holiday (Asarnha Bucha Day)		
<b>Unit II : Energy Flow in Biosystem</b>					
Tu 11 Jul	0900-1100	L12,13	The Catalysts of Life	L02	Pimchai/ Jirundon
	1100-1200	L14	Bioenergetics	L02	Pimchai/ Jirundon
	1300-1500		Self-study		
Wed 12 Jul	0900-1000	L15	Chemical Metabolisms	L02	Pimchai/ Jirundon
	1000-1100	L16	Chemotrophic & Phototrophic Energy	L02	Pimchai/ Jirundon
			Metabolisms		
	1300-1500		Self-study		
Th 13 Jul	0900-1100	Q&A	Questions & Answers	L02	Pimchai
	1300-1500		Self-study		
Fri 14 Jul			Self-study		
Mon 17 Jul	0900-1100		EXAM Unit II (L12-16) (35 points)	Room MDL1, 2	
<b>Unit III : Cell Structure and Function</b>					
Tu 18 Jul	0900-1100	L17,18	Membrane: Structure and Transport Function	L02	Jonggonnee/ Witchuda
	1300-1500		Self-study		
Wed 19 Jul	0900-1100	L19,20	ER, Golgi and lysosomes	L02	Puey/ Laran
	1100-1200	L21	Mitochondrial, chloroplast and peroxisomes	L02	Amornrat/ Laran
	1300-1500		Self-study		

DATE	TIME		TOPIC	Room	LECTURER
Th 20 Jul	0900-1100	L22,L23	Cytoskeleton	L02	Puey/ Amornrat
	1100-1200	Q&A	Questions & Answers	L02	Jonggonnee
	1300-1500		Self-study		
Fri 21 Jul	0900-1000	L24	Nucleus	L02	Amornrat/ Puey
	1000-1200	Q&A	Questions & Answers	L02	Amornrat/ Puey
	1300-1500		Self-study		
Mon 24 Jul	0900-1100		EXAM Unit III (L17-24) (56 points)	Room MDL1, 2	
<u>Unit IV : Cell Signaling</u>					
Tu 25 Jul	0900-1100	L25,26	Cell Adhesion and Extracellular Substances	L02	Krai/ Puey
	1100-1200	SL	Special Lecture:	L02	Sansanee
	1300-1500		Self-study		
Wed 26 Jul	0900-1100	L27,28	Electrical Signaling in Excitable Cells	L02	Jonggonnee/ Witchuda
	1100-1200	Q&A	Questions & Answers	L02	Krai
	1300-1500		Self-study		
Th 27 Jul	0900-1200	L29,30,31	Cell Surface Receptors and Intracellular Signal Transduction	L02	Arthit/ Nateetip
	1300-1500	Q&A	Questions & Answers	L02	Jonggonnee/ Arthit
Fri 28 Jul			Holiday (วันพระชนมพรรษา ๖.10)		
Mon 31 Jul	0900-1200		EXAM Unit IV (L25-31) (49 points)	Room MDL1, 2	
<u>Unit V : Cell Division, Cellular Differentiation, Cell Death and Development</u>					
Tu 1 Aug	0900-1100	L32,33	Cell Division	L02	Rutaiwan/ Rapee
	1100-1200	L34	Cell Cycle & Cell Death	L02	Rutaiwan/ Rapee
	1300-1500		Self-study		
Wed 2 Aug	0900-1030	L35,36	Cell Development	L02	Somyoth/ Rapee
	1030-1200	L37	Cell Differentiation	L02	Somyoth/ Rapee
	1300-1500		Self-study		
Th 3 Aug	0900-1100	Q&A	Questions & Answers	L02	Rutaiwan/ Somyoth
	1300-1500		Self-study		
Fri 4 Aug	0900-1100		EXAM Unit V (L32-37) (42 points)	Room MDL1, 2	