

CELL & MOLECULAR BIOLOGY (GRID 612) Credit 3(3-0-6)**COURSE SCHEDULE**

April 21 – May 27, 2010

Faculty of Science, Mahidol University

DATE	TIME		TOPIC	Room	LECTURER
Wed 21 April	0900-0930		Introduction to Course	L01	Sukumal
	0930-1030	SL1	Strategy for effective research	L01	Prapon
	1030-1200		How to Explore the Cell/Group Activities		
	1300-1500		Small Group (Self-study)	MDL1-4	
Thu 22 April					
<u>Unit I : Life and Information Flow in Cell (Ch 1,2)</u>					
Fri 23 April	0900-1000	L1	Water and Life	L01	Jirundon/ Chutima
	1100-1200	L2,3	Biomolecules of Cells	L01	Jirundorn/ Chutima
	1300-1500		Small Group (Self-study)	MDL1-4	
Mon 26 April	0900-1100	L4,5	Chemical Nature of Genetic Materials & DNA Replication	L01	Laran/ Waraporn
	1300-1500		Small Group (Self-study)	MDL1-4	
Tue 27 April	0900-1100	L6,7	Gene Expression	L01	Laran/ Waraporn
	1300-1500		Small Group (Self-study)	MDL1-4	
Wed 28 April	0900-1100	L8,9	Gene Regulation	L01	Mathurose/ Pornpimol
	1300-1500		Small Group (Self-study)	MDL1-4	
Thu 29 April	0900-1100	L10,11	Gene Technology	L01	Mathurose/ Pornpimol
	1300-1500		Small Group (Self-study)	MDL1-4	
Fri 30 April	0900-1200	Q&A 1	Questions & Answers	L02	Jirundon/ Laran/ Mathurose
	1300-1500		Small Group (Self-study)	MDL1-4	
Sat 1 May	0900-1200		EXAM Unit I (L1-11) (88 points)	MDL 1-4	
<u>Unit II : Energy Flow in Biosystem (Ch 3,8,11)</u>					
Mon 3 May	0900-1100	L12,13	The Catalysts of Life	L01	Pimchai/ Jirundorn
	1100-1200	L14	Bioenergetics	L01	Pimchai/ Jirundorn
	1300-1500		Small Group (Self-study)	MDL1-4	
Tue 4 May	0900-1000	L15	Chemical Metabolisms	L01	Pimchai/ Jirundorn
	1000-1100	L16	Chemotrophic & Phototrophic Energy Metabolisms	L01	Pimchai/ Jirundorn
	1300-1500		Small Group (Self-study)	MDL1-4	
Wed 5 May			Holiday (Coronation Day)		
Thu 6 May	0900-1200	Q&A 2	Questions & Answers	L01	Pimchai
	1300-1500		Small Group (Self-study)	MDL1-4	
Fri 7 May	0900-1100		EXAM Unit II (L12-16) (40 points)	MDL 1-4	
<u>Unit III : Cell Structure and Function (Ch 9,10,12,13,14)</u>					
Mon 10 May	0900-1100	L17,18	Membrane: Structure and Transport Function	L02	Jonggonnee/ Nateetip
	1300-1500		Small Group (Self-study)	MDL1-4	

DATE	TIME		TOPIC	Room	LECTURER
Tue 11 May	0900-1100	L19,20	The Nucleus and Endoplasmic Reticulum	L02	Wattana/ Laran
	1100-1200	L21	Cytoskeleton	L02	Wattana/ Amornrat
	1300-1500	Q&A 3	Questions & Answers	L02	Jonggonnee
Wed 12 May	0900-1100	L22,23	Golgi Complexes and Lysosomes	L02	Laran/ Wattana
	1100-1200	L24	Mitochondria, Chloroplast and Peroxisomes	L02	Amornrat/ Wattana
	1300-1500		Small Group (Self-study)	MDL1-4	
Thu 13 May			Holiday (Royal Ploughing Ceremony Day)		
Fri 14 May	0900-1200	Q&A 4	Questions & Answers	L02	Wattana/ Laran/ Amornrat
	1300-1500		Small Group (Self-study)	MDL1-4	
Sat 15 May	0900-1200		EXAM Unit III (L17-24) (64 points)	MDL 1-4	
<u>Unit IV : Cell Signaling (Ch 14,15)</u>					
Mon 17 May	0900-1100	L25,26	Cell Adhesion and Extracellular Substances	L02	Soraya/ Wattana
	1300-1500		Small Group (Self-study)	MDL1-4	
Tue 18 May	0900-1100	L27,28	Electrical Signaling in Excitable Cells	L02	Nateetip/ Jonggonnee
	1300-1500		Small Group (Self-study)	MDL1-4	
Wed 19 May	0900-1100	L29,30	Cell Surface Receptors and Intracellular Signal Transduction	L02	Nateetip/ Jonggonnee
	1100-1200	L31	Signaling in Development, Differentiation and Programmed Cell Death	L02	Nateetip/ Jonggonnee
	1300-1500		Small Group (Self-study)	MDL1-4	
Thu 20 May	0900-1200	Q&A 5	Questions & Answers	L02	Soraya/ Nateetip
	1300-1500		Small Group (Self-study)	MDL1-4	
Fri 21 May	0900-1200	SL2	Special Lecture	L02	
	1300-1500		Small Group (Self-study)	MDL1-4	
Sat 21 May	0900-1100		EXAM Unit IV (L25-31) (56 points)	MDL 1-4	
<u>Unit V : Cell Division, Cellular Differentiation, Cell Death and Development (Ch 16,17)</u>					
Mon 24 May	0900-1030	L32,33	Cell Division	L02	Rutaiwan/ Rapee
	1030-1200	L34	Cell Cycle & Cell Death	L02	Rutaiwan/ Rapee
	1300-1500		Small Group (Self-study)	MDL1-4	
Tue 25 May	0900-1030	L35,36	Cell Development	L02	Rapee/ Rutaiwan
	1030-1200	L37	Cell Differentiation	L02	Rapee/ Rutaiwan
	1300-1500		Small Group (Self-study)	MDL1-4	
Wed 26 May	0900-1200		Questions & Answers	L02	Rutaiwan/ Rapee
	1300-1500		Small Group (Self-study)	MDL1-4	
Thu 27 May	0900-1100		EXAM Unit V (L32-37) (48 points)	MDL 1-4	
Fri 28 May			Holiday (Visakha Bucha Day)		
Sat 29 May					