

CELL SCIENCE 502 (2 Credits)
Jun 28-Aug 2, 2010
Mon-Fri, 09.00-12.00 hr, Room L02

DATE	TIME		TOPIC	Room	LECTURER
UNIT I : Cells and Cellular Transport					
(5 lectures)					
Mon 28 Jun	0900-0930		Orientation	L02	
	0930-1030	L1	Prokaryotic and eukaryotic cells	L02	Padungsri
Tue 29 Jun	0900-1100	L2, L3	Molecular trafficking: from nucleus to organelles, membrane and secretion	L02	Tuangporn
Wed 30 Jun	0900-1100	L4, L5	Membrane and its regulatory function: membrane potential and transport	L02	Nateetip
UNIT II : Cell Interaction, Communication and Signaling					
(6 lectures, 1 special lecture, 1 Conference, 2 question & answer session)					
Thu 1 Jul	0900-1100	L6, L7	Cell interaction and communication	L02	Rutaiwan
	1100-1200	Q1	Q&A (Unit I)		Padungsri, Nateetip, Tuangporn
Fri 2 Jul	0900-1100	L8, L9	Cell signaling	L02	Mathurose
Mon 5 Jul	0900-1000	S1	Special lecture I : Biological Clock	L02	Nateetip
	1000-1100	L10	Plant-microbe interaction	L02	Kittisak
	1100-1200	L11	Signaling in plant cells (light stress signaling)	L02	Kittisak
Tue 6 Jul	0900-1030	C1	Conference 1 : Signal transduction: A MAPK scaffold lends a helping hand		Tuangporn, Kittisak, Rutaiwan, Jonggonnee
	1030-1200	Q2	Q&A (Unit II)	L02	Rutaiwan, Mathurose, Kittisak
Wed 7 Jul			Self study		
Thu 8 Jul			Self study		
Fri 9 Jul	0900-1200		EXAMINATION I (UNIT I+II) (11 lecture)		
UNIT III : Cell Growth Differentiation and Immune Response					
(8 lectures, 1 special lecture, 1 question & answer session)					
Mon 12 Jul	0900-1200	L12-L14	Cell cycle, development and differentiation	L02	Rapee
Tue 13 Jul	0900-1100	L15, L16	Uncontrolled cell growth: Cancer	L02	Mathurose
Wed 14 Jul	0900-1000	L17	Cell-microbe interaction	L02	Pongsak
	1000-1200	L18, L19	Immune responses at cellular level	L02	Pongsak
Thu 15 Jul	0900-1030	C2	Conference 2 : Innate recognition of intracellular bacteria.		Stitaya, Molvibha, Pongsak, Araya
Fri 16 Jul	0900-1000	S2	Special lecture II : Stem cell and its potential use	L02	Suradej
	1000-1130	Q3	Q&A (Unit III)		Rapee, Mathurose, Pongsak
Mon 19 Jul			Self study		
Tue 20 Jul	0900-1200		EXAMINATION II (UNIT III) (8 lecture)		

DATE	TIME		TOPIC	Room	LECTURER
UNIT IV : Molecular Basis of Diseases					
(6 lectures, 2 special lecture, 2 Conference, 2 question & answer session)					
Wed 21 Jul	0900-1000	L20	Cell response to stress	L02	Noppawan
	1000-1100	L21	Programmed cell death	L02	Pongsak
Thu 22 Jul	0900-1000	L22	Cell injury and cell death	L02	Suda
	1000-1100	L23	Mechanism of cell proliferation and angiogenesis	L02	Nathawut
	1100-1200	L24	Neurodegenerative disorder: Parkinson	L02	Rapee
Fri 23 Jul	0900-1000	S3	Special lecture III: Genetic disorder: hemoglobinopathy	L02	Prapon
	1000-1130	Q4	Q&A (Unit IV)	L02	Noppawan, Suda, Pongsak
Mon 26 Jul			Asarnha Bucha Day		
Tue 27 Jul			Buddhist Lent Day		
Wed 28 Jul	0900-1000	L25	Autoimmune diseases	L02	Ponpan
	1000-1130	C3	Conference 3: Cellular pathology of heart failure		Nathawut, Yupin, Supeenun, Payong
Thu 29 Jul	0900-1030	Q5	Q&A (Unit IV)	L02	Nathawut, Rapee, Ponpan
	1030-1130	S4	Special lecture IV: The consequences of global hypomethylation in cancer	L02	Apiwat
Fri 30 Jul			Self study		
Mon 2 Aug	0900-1200		EXAMINATION III (UNIT IV) (7 lectures)		