

Course Online (Update 24/06/2020)

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

COURSE SCHEDULE

June 25-Aug 3, 2020

DATE	TOPIC	Time	LECTURER
Thu June 25	Introduction to the Course (Live: June 25/9.10-10.30) Zoom	30 Minute	Kittisak
	<u>Unit I : Life and Information Flow in Cell</u>		
	L1 Water and Life	1 Hour	Jirundon
	L2,3 Biomolecules of Cells	2 Hour	Jirundon
	L4,5 Chemical Nature of Genetic Materials & DNA Replication	2 Hour	Laran
	L6,7 Gene Expression	2 Hour	Laran
	L8,9 Gene Regulation	2 Hour	Laran
	L10,11 Gene Technology	2 Hour	Laran
	Q & A (L1-3) (Live: July 1/10.00-10.40)	40 Minute	Jirundon
	Q & A (L4-11) (Live: July 2/10.00-10.40) Zoom	40 Minute	Laran
Wed July 8 / 9.00-12.00 Exam Unit I (L1-11)			
Mon July 6	<u>Unit II : Energy Flow in Biosystem</u>		
	L12,13 The Catalysts of Life	2 Hour	Ruchanok
	L14 Bioenergetics	1 Hour	Ruchanok
	L15 Chemical Metabolisms	1 Hour	Sittinan
	L16 Chemotrophic & Phototrophic Energy Metabolisms	1 Hour	Sittinan
	Q & A (L12-14) (Live: July 10/10.00-10.40)	40 Minute	Ruchanok
	Q & A (L15-16) (Live: July 13/10.00-10.40)	40 Minute	Sittinan
Mon July 13	<u>Unit III : Cell Structure and Function</u>		
	L17,18 Membrane: Structure and Transport Function	2 Hour	Jonggonnee
	L19,20 ER, Golgi and lysosomes	2 Hour	Puey
	L21 Mitochondria, chloroplast and peroxisomes	1 Hour	Amornrat
	L22,23 Cytoskeleton	2 Hour	Puey
	L24 Nucleus	1 Hour	Amornrat
	Q & A (L19-20,22-23) (Live: July 16/10.00-10.40)	40 Minute	Puey
	Q & A (L21,24) (Live: July 17/10.00-10.40)	40 Minute	Amornrat
Mon July 20 / 9.00-12.00 Exam Unit II-III (L12-24)			
Mon July 20	<u>Unit IV : Cell Signaling</u>		
	L25,26 Electrical Signaling in Excitable Cells	2 Hour	Jonggonnee
	L27,28,29 Cell Surface Receptors and Intracellular Signal Transduction	3 Hour	Arthit
	L30,31 Cell Adhesion and Extracellular Substances	2 Hour	Krai
	SL1 The role of free radicals in cancer	1 Hour	Prasit
	Q & A (L27-29) (Live: July 23/10.00-10.40)	40 Minute	Arthit
	Q & A (L30-31) (Live: July 23/11.00-11.40) webex	40 Minute	Krai

DATE	TOPIC	Time	LECTURER	
Mon July 27	<u>Unit V : Cell Division, Cellular Differentiation, Cell Death and Development</u>			
	L32,33	Cell Division	2 Hour	Rutaiwan
	L34	Cell Cycle & Cell Death	1 Hour	Rutaiwan
	L35,36	Cell Development	2 Hour	Somyoth
	L37	Cell Differentiation	1 Hour	Somyoth
	Q & A (L32-34) (Live: July 30/10.00-10.40)	40 Minute	Rutaiwan	
Mon Aug 3 / 9.00-12.00		Exam Unit IV-V (L25-37)		

Program by Google Classroom, Zoom, Webex