

Medical Biochemistry (醫技系、藥學系)

Spring 2018

COURSE COORDINATOR:

Wen-Tsan Chang, D.Phil. (張文燦)
Associate Professor
Department of Biochemistry and Molecular Biology
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CREDIT HOUR: 6 credit hours***TEXTBOOK:***

Biochemistry Concepts and Connections, Dean R. Appling, Spencer J. Anthony-Cahill, Christopher K. Mathews, 2016, Global Version, Pearson Education Limited. (偉民圖書)

TIME & PLACE:

I. Monday	9:10 - 11:00 AM	3rd auditorium
II. Wednesday	8:10 – 10:00 AM	醫技系3樓5761教室
II. Friday	8:10 – 10:00 AM	3rd auditorium

MEDICAL TECHNOLOGY STUDENT GRADES: Lecture-based term-tests/final exam /experiment, and final grade as follows:

Examination	Date	Lecture covered	Weight	Place
Exam 1	4/16	2 – 31	30%	4樓實驗室
Exam 2	5/15	31 –60	30%	4 樓實驗室
Exam 3	6/25	62 – 89	25%	4 樓實驗室
Experiment			15.0%	

PHARMACY STUDENT GRADES: Lecture-based term-tests/final exam , and final grade as follows:

Examination	Date	Lecture covered	Weight	Place
Exam 1	4/16	2 – 31	35%	4樓實驗室
Exam 2	5/15	31 –60	35%	4 樓實驗室
Exam 3	6/25	62 – 89	30%	4 樓實驗室
Experiment			100%	

Teaching Faculties

Name	Location	Phone
Wen-Tsan Chang, D.Phil. (張文燦) Associate Professor Department of Biochemistry and Molecular Biology	82-0923	5533
Chien-hung Yu (余建泓) Assistant Professor Department of Biochemistry and Molecular Biology	82-0916	5540
Hung-Chi Cheng, Ph.D (鄭宏祺) Associate Professor Department of Biochemistry and Molecular Biology	82-0912	5544
Hsien-Tai Chiu, Ph.D. (邱顯泰) Associate Professor Department of Chemistry	理化大樓 4 樓 35426	87-65322
Chan-Shi Chen, Ph.D. (陳昌熙) Professor Department of Biochemistry and Molecular Biology	82-0931	5548
Yueh-Ren Ho, Ph.D. (何月仁) Instructor Department of Biochemistry and Molecular Biology	82-0932	5547
Ming-Derg Lai, Ph.D. (賴明德) Distinguished Professor Department of Biochemistry and Molecular Biology	82-0930	5549
Chao-Liang Wu, Ph.D. (吳昭良) Distinguished Professor Department of Biochemistry and Molecular Biology	82-0920	5536
Po-Hsien Huang, Ph.D. (黃柏憲) Assistant Professor Department of Biochemistry and Molecular Biology	82-0904	5513

Item	Date		Topics	Lecturer
1	2/26	Mon	Introduction	張文榮
2	3/2	Fri	Biochemistry and the Language of Chemistry	余建泓
3			The Chemical Foundation of Life: Weak Interactions in an	余建泓
4	3/5	Mon	The Energetics of Life	余建泓
5			The Energetics of Life	
6	3/7	Wed	Nucleic Acids	余建泓
7			Nucleic Acids	
8	3/9	Fri	Introduction to Proteins: The Primary Level of Protein Structure	鄭宏祺
9			Introduction to Proteins: The Primary Level of Protein Structure	
10	3/12	Mon	Introduction to Proteins: The Primary Level of Protein Structure	
11			Introduction to Proteins: The Primary Level of Protein	
12	3/14	Wed	The Three-Dimensional Structure of Proteins	鄭宏祺
13			The Three-Dimensional Structure of Proteins	
14	3/16	Fri	The Three-Dimensional Structure of Proteins	
15			The Three-Dimensional Structure of Proteins	
16	3/19	Mon	Protein Function and Evolution	鄭宏祺
17			Protein Function and Evolution	
18	3/21	Wed	Protein Function and Evolution	
19			Protein Function and Evolution	
20	3/23	Fri	Enzymes: Biological Catalysts	邱顯泰
21			Enzymes: Biological Catalysts	
22	3/26	Mon	Enzymes: Biological Catalysts	
23			Enzymes: Biological Catalysts	
24	3/28	Wed	Chemical Logic of Metabolism	邱顯泰
25			Chemical Logic of Metabolism	
26	3/30	Fri	Chemical Logic of Metabolism	
27			Chemical Logic of Metabolism	
28	4/9	Mon	Carbohydrates: Sugars, Saccharides, Glycans	余建泓
29			Carbohydrates: Sugars, Saccharides, Glycans	
30	4/11	Wed	Carbohydrates: Sugars, Saccharides, Glycans	
31			Carbohydrates: Sugars, Saccharides, Glycans	
32	4/13	Fri	Carbohydrate Metabolism: Glycolysis, Gluconeogenesis,	陳昌熙
33			Carbohydrate Metabolism: Glycolysis, Gluconeogenesis,	
	4/16	Mon	Examination I (2-31) 4 樓實驗室	
34	4/18	Wed	Carbohydrate Metabolism: Glycolysis, Gluconeogenesis, Glycogen Metabolism, and the Pentose Phosphate Pathway	
35			Carbohydrate Metabolism: Glycolysis, Gluconeogenesis, Glycogen Metabolism, and the Pentose Phosphate Pathway	

36	4/20	<i>Fri</i>	The Citric Acid Cycle	陳昌熙
37			The Citric Acid Cycle	
38	4/23	<i>Mon</i>	The Citric Acid Cycle	
39			The Citric Acid Cycle	
40	4/25	<i>Wed</i>	Electron Transport, Oxidative Phosphorylation, and Oxygen Metabolism	陳昌熙
41			Electron Transport, Oxidative Phosphorylation, and Oxygen Metabolism	
42	4/27	<i>Fri</i>	Electron Transport, Oxidative Phosphorylation, and Oxygen Metabolism	
43			Electron Transport, Oxidative Phosphorylation, and Oxygen Metabolism	
44	4/30	<i>Mon</i>	Lipids, Membranes, and Cellular Transport	何月仁
45			Lipids, Membranes, and Cellular Transport	
46	5/2	<i>Wed</i>	Lipids, Membranes, and Cellular Transport	
47			Lipids, Membranes, and Cellular Transport	
48	5/4	<i>Fri</i>	Lipid Metabolism	何月仁
49			Lipid Metabolism	
50	5/7	<i>Mon</i>	Lipid Metabolism	
51			Lipid Metabolism	
52	5/9	<i>Wed</i>	Interorgan and Intracellular Coordination of Energy Metabolism in Vertebrates	何月仁
53			Interorgan and Intracellular Coordination of Energy Metabolism in Vertebrates	
54	5/11	<i>Fri</i>	Interorgan and Intracellular Coordination of Energy Metabolism in Vertebrates	
55			Interorgan and Intracellular Coordination of Energy Metabolism in Vertebrates	
56	5/14	<i>Mon</i>	Amino Acid and Nitrogen Metabolism	賴明德
57			Amino Acid and Nitrogen Metabolism	
58	5/16	<i>Wed</i>	Amino Acid and Nitrogen Metabolism	
59			Nucleotide Metabolism	吳昭良
60	5/18	<i>Fri</i>	Nucleotide Metabolism	
61			Nucleotide Metabolism	
	5/21	<i>Mon</i>	Examination II (32-61) 4 樓實驗室	
62	5/23	<i>Wed</i>	Mechanisms of Signal Transduction	賴明德
63			Mechanisms of Signal Transduction	
64	5/25	<i>Fri</i>	Mechanisms of Signal Transduction	
65			Mechanisms of Signal Transduction	
66	5/28	<i>Mon</i>	Genes, Genomes, and Chromosomes	黃柏憲
67			Genes, Genomes, and Chromosomes	
68	5/30	<i>Wed</i>	Genes, Genomes, and Chromosomes	
69			Genes, Genomes, and Chromosomes	

70	6/1	<i>Fri</i>	DNA Replication	黃柏憲
71			DNA Replication	
72	6/4	<i>Mon</i>	DNA Replication	
73			DNA Repair, Recombination, and Rearrangement	黃柏憲
74	6/6	<i>Wed</i>	DNA Repair, Recombination, and Rearrangement	
75			DNA Repair, Recombination, and Rearrangement	
76	6/8	<i>Fri</i>	Transcription and Post-transcriptional Processing	張文祭
77			Transcription and Post-transcriptional Processing	
78	6/11	<i>Mon</i>	Transcription and Post-transcriptional Processing	
79			Transcription and Post-transcriptional Processing	
80	6/13	<i>Wed</i>	Information Decoding: Translation and Post- translational	張文祭
81			Information Decoding: Translation and Post- translational	
82	6/15	<i>Fri</i>	Information Decoding: Translation and Post- translational	
83			Information Decoding: Translation and Post- translational	
84	6/20	<i>Wed</i>	Regulation of Gene Expression	張文祭
85			Regulation of Gene Expression	
86	6/22	<i>Fri</i>	Regulation of Gene Expression	
87			Regulation of Gene Expression	
	6/25	<i>Mon</i>	Final Examination II (62-87) 4 樓實驗室	