

HEMATOLOGY 2017

Department of Medical Laboratory Science and Biotechnology

College of Medicine, National Cheng Kung University

(8/17/2017 updated)

Date	Lecture	Laboratory	Teacher	TA
9/18 (W1)	Introduction to hematology		徐麗君	
9/20 (W3)	Blood collection and anticoagulants		徐麗君	
9/22 (W5)	Hematopoiesis		徐麗君	
		1. Check in	徐麗君	<u>慧卿</u> 、咨穎、亭羽
		2. Blood collection (Video)		
9/25 (W1)	Erythrocytes		黃溫雅	
9/27 (W3)	Hemoglobin		黃溫雅	
9/29 (W5)	Quiz 1		徐麗君	<u>慧卿</u> 、思璇、亭羽、芮君
		1. Skin puncture		
		2. Hct (Micro-method)		陳蕾 (Quiz)
		3. Hb (Cyanmethemoglobin method)		
10/2 (W1)	Quantitative and morphologic evaluation of erythrocytes		黃溫雅	
10/6 (W5)	Quiz 2		徐麗君	<u>洪齊</u> 、羽晴、亭羽、芮君
		1. Skin puncture		
		2. Hb (Shali method)		<u>亨達</u> (Quiz)
		3. WBC & RBC count		
		4. RBC indexes		
10/11 (W3)	Defect of erythropoiesis		黃溫雅	
10/13 (W5)			徐麗君	<u>瑞燕</u> 、亭羽、旭錦、政勳
		1. Venipuncture		
		2. ESR		
		3. Automatic cell count		
		4. Reticulocyte count		
10/16 (W1)	Hemolytic anemia		黃溫雅	
10/18 (W3)	Special tests for anemia diagnosis		黃溫雅	
10/20 (W5)			黃溫雅	<u>思璇</u> 、旭錦、慶瑜、祐伸
		1. Hb electrophoresis		
		2. HbF determination		
10/23 (W1)	<i>Presentation & discussion (I)</i>		黃溫雅/徐麗君	
10/25 (W3)			黃溫雅	<u>祐伸</u> 、旭錦、慶瑜、思璇
		1. Osmotic fragility test		
		2. Observation of RBC morphology		
10/27 (W5)	First exam		徐麗君	<u>亨達</u>
10/30 (W1)	Leukocytes		楊孔嘉	
11/1 (W3)	Benign leukocyte disorders		楊孔嘉	
11/3 (W5)	Laboratory evaluation of leukocytes: morphology		楊孔嘉	

11/6 (W1)	Laboratory evaluation of leukocytes: cytochemical stain		楊孔嘉
11/8 (W3)	Laboratory evaluation of leukocytes: immunophenotyping		楊孔嘉
11/10 (W5)	Quiz 3	1. Blood smear preparation & staining 2. Differential count 3. Morphology observation (Demo)	楊孔嘉 天佑、咨穎、祐伸、羽晴 陳蕾 (Quiz) 曾潤煜 陳景榮、葉子萍、林坤標、 謝淑芳
11/13 (W1)	Hematological malignancy (I)		陳彩雲
11/15 (W3)		1. Eosinophil count 2. LAP score 3. Morphology observation	楊孔嘉 洪齊、慶瑜、羽晴、維志
11/17 (W5)		1. NSE stain 2. NASD-CAE stain 3. Morphology observation (Demo)	楊孔嘉 天佑、維志、咨穎、羽晴 曾潤煜 陳景榮、葉子萍、林坤標、 謝淑芳
11/20 (W1)	Hematological malignancy (II)		陳彩雲
11/22 (W3)	Lymphoma		陳雅萍
11/24 (W5)		1. Peroxidase stain 2. PAS stain 3. Morphology observation 4. Flow cytometry	楊孔嘉 政勳、維志、思璇、羽晴 佩汝
11/27 (W1)	Molecular diagnostics in hematology		陳怡伶
11/29 (W3)	<i>Presentation & discussion (II)</i>		楊孔嘉
12/1 (W5)	Thrombocytes and vasculature		徐麗君
12/4 (W1)	Second exam		楊孔嘉 師維
12/6 (W3)	Blood coagulation		傅子芳
12/8 (W5)	Fibrinolysis and anticoagulation		傅子芳
12/11 (W1)	Hemostasis testing (I)		徐麗君
12/13 (W3)	Hemostasis testing (II)		傅子芳
12/15 (W5)	Quiz 4	1. Platelet count 2. Platelet aggregation test	徐麗君 慧卿、芮君、思璇、祐伸 亨達 (Quiz)
12/18 (W1)	Bleeding disorder due to vascular and platelet abnormalities		陳彩雲
12/20 (W3)		1. Bleeding time 2. Tourniquet test 3. Coagulation time	徐麗君 瑞燕、祐伸、羽晴、亨達
12/22 (W5)		1. Prothrombin time 2. APTT 3. Thrombin time	徐麗君 慧卿、宛瑜、亭羽、師維

12/25 (W1)	Disorders of coagulation and fibrinolysis	陳彩雲
12/27 (W3)	1. PT dilution curve 2. Heparin neutralization assay	傅子芳 天佑、宛瑜、芮君
12/29 (W5)	1. Clot retraction time 2. Euglobulin clot lysis time	傅子芳 柏源、芮君、師維
1/3 (W3)	1. Plasma recalcification test 2. Clot solubility test	傅子芳 芮君、宛瑜、天佑
1/5 (W5)	Laboratory review Check out	楊孔嘉 思璇、祐伸 徐麗君 亭羽、陳蕾、師維
1/8 (W1)	<i>Presentation & discussion (III)</i>	傅子芳
1/10 (W3)	Laboratory exam	黃溫雅 亨達、所有助教 楊孔嘉 傅子芳 徐麗君
1/12 (W5)	Final exam	徐麗君 師維

Course Coordinator:

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Time:

Monday Lecture: **10:10-12:00 AM**
Wednesday & Friday Lecture: **1:10-3:00 PM**
Laboratory: **1:10-6:00 PM**

Grading policy:

Lecture	Quiz & presentation	20%
	First exam	30%
	Second exam	30%
	Final exam	30%
Laboratory	Pretest	10%
	Performance	20%
	Report	30%
	Exam	40%

Textbooks:

Clinical Hematology: Theory and Procedures, 5th Edition; by Mary L. Turgeon
Atlas of Hematology, 2nd Edition; by S. C. Anderson Young and K. B. Poulsen