

Module 1 'Biochemistry and molecular biology' Timetable for 1st level students

First week	9:00 – 11:00	11:00 – 12:45	1:00 – 2:30	2:30 – 4:00
Saturday 20-9	Quality of medical education <ul style="list-style-type: none"> • Dr. Heba Mabrouk • Dr. Marwa Ghallab 	Biochemistry Lecture Carbohydrates classification & Monosaccharide	Biochemistry Lecture Monosaccharides classifications and their structural isomerism	
Sunday 21-9	Molecular Biology Lecture (Nucleotides structure & 1ry structure of DNA) Dr. Marwa Mona	Biochemistry Lecture Monosaccharide & isomerism Dr. Marwa Mona	Biochemistry Tutorial (Chemical properties of Monosaccharide)	
Monday 22-9	Molecular Biology Lecture (DNA structure and higher organization) Dr. Marwa Mona	Biochemistry Lecture Disaccharides	Biochemistry Tutorial (1) Carbohydrates practical	
Tuesday 23-9	Molecular Biology DNA replication 1 Dr. Marwa Mona	Molecular Biology DNA replication 2 and clinical correlations Dr. Marwa Mona	Biochemistry Practical (1) Group 1 Group 2 Group 3	
Wednesday 24-9	Biochemistry Lecture Polysaccharides	Biochemistry Practical (1) Group 4 Group 5 Group 6	Biochemistry Practical (1) Group 4 Group 5 Group 6	
Thursday 25-9	Biochemistry Practical (1) Group 10 Group 11 Group 12	Biochemistry Practical (1) Group 7 Group 8 Group 9	Biochemistry Tutorial (1) Carbohydrates Unknown scheme practical	
Second week	9:00 – 11:00	11:00 – 12:45	1:00 – 2:30	2:30 – 4:00
Saturday 27-9	Quality of medical education <ul style="list-style-type: none"> • Dr. Heba Mabrouk • Dr. Marwa Ghallab 	Molecular Biology DNA Repair and clinical correlation Dr. Marwa Mona	Molecular Biology RNA types and introduction to RNA synthesis Dr. Marwa Mona	

Sunday 28-9	Biochemistry Lecture Lipid chemistry- simple Lipids	Biochemistry Lecture Conjugated lipids	Biochemistry Molecular Tutorial 1 PCR and DNA sequencing techniques	Biochemistry Formative assessment (1) Online
Monday 29-9	Biochemistry Lecture Derived lipids	Biochemistry Lecture Revision on lipid chemistry and clinical correlations	Biochemistry Practical (2) Group 1 Group 2	Biochemistry Practical (2) Group 3 Group 4
Tuesday 30-9	Molecular Biology DNA Transcription Dr. Marwa Mona	Molecular Biology Post transcriptional modification and regulation of gene expression Dr. Marwa Mona	Biochemistry Practical (2) Group 5 Group 6	Biochemistry Practical (2) Group 7 Group 8
Wednesday 1-10	Biochemistry Molecular Tutorial 2 Basics of gene cloning and vectors	Biochemistry Molecular Tutorial 3 Blotting techniques	Biochemistry Practical (2) Group 9 Group 10	Biochemistry Practical (2) Group11 Group 12
Thursday 2-10	Biochemistry Molecular Tutorial 4 Modes of inheritance	Practical on unknown carbohydrates solutions		
Third week	9:00 – 11:00	11:00 – 12:45	1:00 – 2:30	2:30 – 4:00
Saturday 4-10	Quality of medical education • Dr. Heba Mabrouk Dr. Marwa Ghallab	Biochemistry Lecture Protein chemistry (Classifications of amino acids and chemical characters)	Biochemistry Tutorial practical Protein chemistry	
Sunday 5-10	Molecular Biology Genetic code and mutation with clinical correlations Dr. Marwa Mona	Molecular Biology Protein biosynthesis 1 Dr. Marwa Mona	Biochemistry Molecular Tutorial 4 Modes of inheritance and basics of heredity	
Monday 6-10	Biochemistry Lecture Protein Chemistry- protein folding and structure	Biochemistry Lecture Enzymes (1) (definition, characters, classiifcations and modes of action)	Biochemistry Practical (3) Group 1 Group 2 Group 3	Biochemistry Practical (3) Group 4 Group 5 Group 6

Tuesday 7-10	Molecular Biology Protein biosynthesis 2 and clinical correlations Dr. Marwa Mona	Molecular Biology Regulation of gene expression (operons) Dr. Marwa Mona	Biochemistry Practical (3) Group 7 Group 8 Group 9	Biochemistry Practical (3) Group 10 Group11 Group 12
Wednesday 8-10	Biochemistry Lecture Enzymes (2) (Factors affecting its functions and types of inhibitors)	Biochemistry Lecture Enzymes (3) (Regulation of enzymatic action and allostery)	Biochemistry Tutorial practical Protein chemistry on unknown solution	
Thursday 9-10	Lab revision on protein unknown			
Fourth week	8:00 – 10:00	10:00 – 12:00	12:00 – 1:30	1:30 – 3:00
Saturday 11-10	Quality of medical education <ul style="list-style-type: none">• Dr. Heba Mabrouk• Dr. Marwa Ghallab	Biochemistry Lecture Enzymes (4) (Clinical enzymology)	Biochemistry Lecture Enzymes (5) cases on enzymes	
Sunday 12-10	Molecular Biology Cancer genetics and characters of tumor markers Dr. Marwa Mona	Molecular Biology Formative assessment Case studies Dr. Marwa Mona	Biochemistry Molecular tutorial 5 Basics of DNA sequences and fingerprinting	
Monday 13-10	Biochemistry Formative assessment Case studies Dr. Marwa Mona	Biochemistry Lecture Revision and case study	Biochemistry Tutorial General scheme for unknown solution identification	
Tuesday 14-10	Practical Revision General scheme for unknown solution identification (Lab activities)			
Wednesday 15-10	Practical Revision General scheme for unknown solution identification (Lab activities)			
Thursday 16-10				
Fifth week				
Saturday 18-10	PRACTICAL EXAM			
Sunday 19-10				

Monday 20-10	Study Break	
Tuesday 21-10		
Wednesday 22-10		
Thursday 23-10	End module exam	