

School of Pharmacy

Department

Course Title: **Molecular Biology and Genetics**

Course code: 26

Credit (Theory or Practical): Theory 2

Prerequisite: None

Second semester of the 2023 -2024 school year

Target students: Foreign Students (MPharm)

Instructors: Dr. Montazeri, Dr. Mottaghi

Responsible Instructor: Dr. Mottaghi

References:

1. Molecular cell biology, 7th edition, Lodish H., Berk A., Kaiser C.A., et al
2. Molecular biology of the cell, 6th edition, Alberts B., Johnson A., Lewis J
3. Genome, T.A. Brown, last edition
4. Lewin's Cell, 3rd edition

Student assessment:

- 1- Attendance, non/oral exam, and Classroom activities
- 2- Final exam (multiple-choice questions, descriptive questions)

- All classes will be held in Besarati (Eastern 7) Street, North Shahin Boulevard

The absence hours of a student should not exceed 4/17 of the sessions. Otherwise, the score for the course will be considered as zero.

Note 1: allowed absences are accepted provided students bring in documents for that and the related professor approves it. Acting against absences (excused or not) will be the professor's decision and the college's agreement.

Course Title: Molecular Biology and Genetics

Saturdays (8-10)			
Row	Subject	Lecturer	Date
1	Fundamentally Different Classes of Cells: Prokaryotes & Eukaryotes	Dr. Montazeri	February 10, 2024
2	Structure and functions of DNA, RNA, and Proteins	Dr. Montazeri	February 17, 2024
3	Nucleic Acids and Chromosome Structure	Dr. Montazeri	February 24, 2024
4	The Cytoskeleton and Cell Motility	Dr. Montazeri	March 2, 20204
5	Cytoplasmic Membrane Systems: Structure, Function, and Membrane Trafficking	Dr. Montazeri	March 9, 20204
6	Mitochondria and cellular respiration	Dr. Montazeri	April 06, 20204
7	DNA Replication	Dr. Montazeri	April 13, 20204
8	DNA Repair	Dr. Mottaghi	April 20, 20204
9	Transcription and Processing of RNA	Dr. Mottaghi	April 27, 20204
10	Translation and Protein Synthesis	Dr. Mottaghi	May 04, 20204
11	Mitosis	Dr. Mottaghi	May 11, 20204
12	Meiosis	Dr. Mottaghi	May 18, 20204
13	Telomers and Telomerase	Dr. Mottaghi	May 25, 20204
14	Apoptosis	Dr. Mottaghi	June 01, 20204
15	Final Exam	Dr. Montazeri and Dr. Mottaghi	