

TBİY 101- MEDICAL BIOLOGY

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1. Term

1. week	Introduction to medical biology and cell theory
2. week	Methods of cell examination
3. week	Introduction and use of the microscope
4. week	Cell Components and Cell Types
5. week	Cellular Organization: Cell Organelles
6. week	Cellular Organization: Cell Strain and Cell Skeleton
7. week	Cell Examination
8. week	Substance Movement in Cell Membrane, Cell Connections
9. week	Signal Transduction in the Cell
10. week	Cell Cycle, Mitosis
11. week	Phases of Mitosis
12. week	Cell Cycle Control
13. week	Meiosis and Stem Cell Concept
14. week	Nucleic Acids, Structure of DNA
15. week	DNA Replication, Genome Organization
16. week	Mid-term exam

2. Term

1. week	Gene Expression: Transcription and RNA Varieties
2. week	Gene Expression: Genetic Code and Translation
3. week	Control of Gene Expression-1
4. week	Control of Gene Expression-2
5. week	Packing of DNA and Chromosome
6. week	Mutations
7. week	DNA Repair Mechanisms
8. week	Chromosome Mutations; Numerical and Structural Irregularities
9. week	Human Chromosomes and Karyotype
10. week	Basic Rules of Inheritance and Inheritance Patterns
11. week	Multiple allele-ABO Blood Groups and Pedigri
12. week	Gene technology, Mutation analysis in the diagnosis, Cloning,
13. week	Gene and cellular therapy methods
14. week	Stem cell biology
15. week	Examples of gene therapy applications
16. week	Mid-term exam