



МЕДИЦИНСКИ УНИВЕРСИТЕТ – ПЛОВДИВ
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Curriculum for the course of Biology for 1st year students in
Pharmacy 2022-2023

Lectures-Monday, 11:10 am

№	WEEK	LECTURE TOPIC	LECTURER	PRACTICAL COURSE TOPIC- 4 HOURS
1.	3-7.10.22	Organization of the genetic material in the cell. Structure of chromosomes.	V. Sarafian	
2.	10-14.10.22	Karyotype. Pathological karyotype. Gene and chromosomal mutations.	M. Kazakova	Microscopy. Organization of the genetic material in the cell. Karyotype.
3.	17-21.10.22	Cell cycle. Mitosis. Meiosis. Gametogenesis. Fertilization.	M. Kazakova	
4.	24 – 28.10.22	Nucleic acids. Replication.	M. Kazakova	Nucleic acids. DNA replication. Transfer of genetic information. Transcription.
5.	31.10-4.11.22	Transcription. Translation. Genetic code.	M. Kazakova	
6.	7-11.11.22	Apoptosis. Tumor biology.	V. Sarafian	Translation. Genetic code. Gene mutations. Structural and numerical chromosomal mutations.
7.	14-18.11.22	Gene and cell engineering. Gene therapy	M. Kazakova	
8.	21-25.11.22	Immunological homeostasis. Innate immunity. Antigens. Immunobiology of BGA.	V. Sarafian	Molecular medicine. Mitosis. Apoptosis. Tumor biology.
9.	28.11-02.12.22	Immune system. Immunocompetent cells.	V. Sarafian	
10.	5-9.12.22	Antibodies – structure and functions.	M. Kazakova	Innate and adaptive immunity. Antigens. Blood group antigens. Primary and secondary lymphoid organs. Immune cells.
11.	12-16.12.22	Major histocompatibility complex (MHC). Antigen recognition, processing, and presentation.	M. Kazakova	
12.	19-23.12.22	Hypersensitivity reactions.	V. Sarafian	Humoral and cellular immunity. Immunoglobulins. The Complement system. Major histocompatibility complex. Tumor immunology. Hypersensitivity reactions.

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