

**AL-FARABI KAZAKH NATIONAL UNIVERSITY**  
**Faculty of Medicine and Healthcare**  
**Higher School of Medicine**  
**Department of Fundamental Medicine**  
**Map of specialty provision with educational and methodical literature**  
**«Mechanisms of Defense and Disease»**  
**(10 credits)**  
**5B130100 “General medicine”**  
**Spring semester, 2021-2022 academic year**

№	Informational resources	Number of students studying the discipline (estimated enrollment)	Quantity in the library of al-Farabi KazNU		
			Kazakh	Russian	English
	<b>Educational literature (title, year of publication, authors)</b>	73 kazakh 14 russian 50 english			
1	Thompson & Thompson genetics in medicine (2016) Robert L. Nussbaum, Roderick R. McInnes, Huntington F. Willard, Ada Hamosh. Philadelphia, PA: Elsevier				1
2	Роберт Л. Ньюссбаум, Родерик Р. Мак-Иннес, Хантингтон Ф. Виллард. Медицинская генетика, ГЭОТАР "Медиа", 2014			1	
3	Роберт Л. Ньюссбаум, Родерик Р. Мак-Иннес, Хантингтон Ф. Виллард. Медициналық генетика, ГЭОТАР "Медиа", 2014		1		
4	Jorde, L.B. et al. (2016) Medical Genetics. Philadelphia, PA: Elsevier				1
5	Emery's Elements of Medical Genetics (2017) Turnpenny, P.D., Ellard S. 15th Edition, Elsevier				1
6	Hartwell, L. et al (2017) Genetics: from genes to genomes, 6th edition. New York, NY: McGrawHill Education				1

7	USMLE Step 1 Lecture Notes (2017): Biochemistry and Medical Genetics. Kaplan Publishing				1
8	Basic & Clinical Pharmacology [Electronic resource]: collection / ed.: B. G. Katzung, A. J. Trevor. - 13th ed. - New York; Chicago; San Francisco: McGraw-Hill Education, 2015. - 1837 p. - ISBN 978-0-07-182641-9: 0.00				1
9	Jawetz, Melnick & Adelberg's Medical microbiology. Geo F. Brooks, Karen C. Carroll, Janet S. Butel, Stephen A. Morse, Timothy A. Mietzner. 26 <sup>th</sup> edition, 2013				1
10	Микробиология, вирусология и иммунология. В.В. Зверев, А.С. Быков. Медицинское информационное агентство, Москва, МИА, 2016			1	
<b>Web-resources</b>					
1	OMIM® Online Mendelian Inheritance in Man® An Online Catalog of Human Genes and Genetic Disorders <a href="https://www.omim.org/">https://www.omim.org/</a>				
2	The Genetic Testing Registry (GTR®) <a href="https://www.ncbi.nlm.nih.gov/gtr/">https://www.ncbi.nlm.nih.gov/gtr/</a>				
3	Genetics Home Reference. <a href="https://ghr.nlm.nih.gov/resources">https://ghr.nlm.nih.gov/resources</a>				
4	ClinGen: Clinical Genome Resource <a href="https://www.clinicalgenome.org/">https://www.clinicalgenome.org/</a>				
5	Learn.Genetics <a href="https://learn.genetics.utah.edu/content/basics/">https://learn.genetics.utah.edu/content/basics/</a>				
6	Clinical Genetic Education Resources (Courses and Lectures) <a href="https://www.kumc.edu/gec/prof/genecour.html">https://www.kumc.edu/gec/prof/genecour.html</a>				
7	Genomics Education Program. <a href="https://www.genomicseducation.hee.nhs.uk">https://www.genomicseducation.hee.nhs.uk</a>				
8	ELSEVIER "Clinical learning" training program, 2018				
9	Computer program "Diamorph" - "Medical Microbiology" - atlas-guide to the bacteriology of mycology, protozoology and virology edited by Acad. Prof. Vorobyova A.A.				
10	<a href="https://www.msdmanuals.com/professional/clinical-pharmacology">https://www.msdmanuals.com/professional/clinical-pharmacology</a>				