

**AL-FARABI KAZAKH NATIONAL UNIVERSITY**  
**Medicine and Health Care Faculty**  
**Higher School of Medicine**  
**Department of Fundamental Medicine**

**Educational program by the specialty**  
**6B10103 - «General Medicine»**

The schedule of IWS  
by the discipline “Molecular Biology and Bioorganic Chemistry”

№	Tasks for IWS	The form of implementation of IWS	Deadline of IWS (study week)	
1	Research paper (thesis) focusing on the topic of recent advancements in molecular biology. Guidelines stipulate that students form small groups to compose their theses, which must include an introduction, main body, and conclusion, all fitting within one A4 page.	Thesis	5 week	8 points
2	Gene therapy: myths and reality. The group of students is divided into two teams. The first team makes presentation “Gene therapy is a myth” (problems of gene therapy) and the second group makes presentation “Gene therapy is reality” (achievements of gene therapy) by scientific articles from PubMed( <a href="https://www.ncbi.nlm.nih.gov/pubmed">https://www.ncbi.nlm.nih.gov/pubmed</a> ) for the last five years. Each team defends its position based on scientific facts.	presentation	10 week	6 points

For implementation of **IWS** students can use study literature and scientific sources recommended in the course as well as found by themselves. The pass of **IWS** is strictly by the schedule. In the case of respectful reasons (by documental confirmation) **IWS** can be accepted out of the schedule.

### Response Quality Scale

Mark	Criteria	Scale, points
Excellent	<ol style="list-style-type: none"> <li>1. all key aspects are included and presented logically;</li> <li>2. high accuracy (relevance, without redundancy) and constant attention to the issue;</li> <li>3. excellent integration of theoretical questions;</li> <li>4. providing relevant examples;</li> <li>5. in-depth analysis and theoretical justification of the problem (if applicable), all key aspects identified and interpreted;</li> <li>6. fluency in professional terminology</li> </ol>	90 - 100
Good	<ol style="list-style-type: none"> <li>1. all key aspects are included and presented logically;</li> <li>2. constant focus on the issue with satisfactory accuracy, relevance, and / or some redundancy;</li> <li>3. satisfactory integration of theoretical questions;</li> <li>4. the lack of examples;</li> <li>5. satisfactory analysis and theoretical justification of the problem (if applicable), most of the key aspects identified and interpreted;</li> <li>6. correct use of professional terminology</li> </ol>	70 - 89
Satisfactory	<ol style="list-style-type: none"> <li>1. most of the key aspects are included;</li> <li>2. satisfactory focus on the question - some errors and / or noticeable redundancy;</li> <li>3. theoretical problems presented without noticeable integration;</li> <li>4. Providing failed examples or no examples;</li> <li>5. some analysis and theoretical justification of this problem (if applicable), most of the key aspects are defined and interpreted;</li> <li>6. correct use of professional terminology</li> </ol>	50 - 69
Unsatisfactory (FX)	<ol style="list-style-type: none"> <li>1. most of the key aspects are omitted;</li> <li>2. lack of attention to the issue-irrelevant and significant redundancy;</li> <li>3. some theoretical problems presented without integration and understanding;</li> <li>4. missing or outdated examples;</li> <li>5. some analysis and theoretical justification of this problem (if applicable), most of the key aspects are omitted;</li> <li>6. problems in using professional terminology</li> </ol>	25 - 49
Unsatisfactory (F)	<ol style="list-style-type: none"> <li>1. most or all of the key aspects are omitted;</li> <li>2. no focus on the question, not much related to the issue of information;</li> <li>3. significant gaps in theoretical questions, or their superficial consideration;</li> <li>4. the lack of examples or irrelevant examples;</li> <li>5. there is no analysis and no theoretical justification for the given problem (if applicable), most of the key aspects are omitted;</li> </ol>	0-24

	6. problems in using professional terminology	
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