

**Thematic plan of independent work in the discipline «Methods of  
experimental study of the molecular basis of drug action»  
for students of 2023 admission  
under the educational program  
33.05.01 Pharmacy,  
Pharmacy profile  
specialty,  
full-time form of education  
for the 2024-2025 academic year**

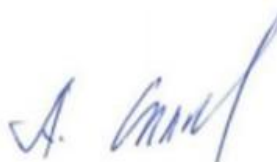
<b>№</b>	<b>The topic of independent work</b>	<b>Summary</b>	<b>Hours (academic)</b>
1.	<b>Fundamentals of receptorology.</b>	General concepts of receptors and ligands. Receptor families. Methods for searching for compounds that affect receptor targets. Main groups of methods for detecting receptor action.	6
2.	<b>Principles of evidence-based medicine.</b>	The concept of evidence-based medicine. Development of principles of evidence-based medicine. Levels of evidence.	5
3.	<b>Method validation and verification.</b>	Validation and verification of a method or analytical system as part of a process. Validation and verification of a method: definitions of terms and purposes. Analytical errors and their types. Verification experiments to confirm the magnitude of analytical errors. ISO, VIM and GUM: basic methodological terms and their definitions.	5
4.	<b>Clinical Trial Registration and Reporting Systems</b>	Clinical Trial Search U.S. National Library of Medicine: ClinicalTrials.gov National Institutes of Health (NIH): Research Match CenterWatch Risks and Benefits of Participating in Clinical Trials Ethics and Precautions in Clinical Trials	4

5.	<b>Bioethical issues in preclinical and clinical research.</b>	Fundamentals of Ethics and Evaluation of Methodological Approaches from the Point of View of Ethical Expertise. The Concept of International and National Documents in the Field of Ethical Expertise	4
Total			24

Considered at meeting of the department of Pharmacology and bioinformatics

Protocol № 13 dated «04» april 2024

Head of the Department of Pharmacology  
and Bioinformatics, Academician of the  
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Doctor of Medical Sciences, Professor



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