


APPROVE

Head Department X and XT

 A.T. Takibayeva
" " _____ 2022

PLAN
research work of the Department of Chemical Technology
for 2022-2023

No. p/p one	Events (Name of works)	Deadlines	Executor	Release note _
R&D performance on state budget topics				
1.1	Development of effective methods for the synthesis ofazole compounds based on natural substances with antibacterial, anti-inflammatory and antioxidant effects.	2020-2022	Rakhimberlinova Zh.B.	
1.1.1	Study of the structure- bioactivity relationship patterns using quantum chemical calculations and pharmacological screening of the synthesized compounds.	October 2022	Rakhimberlinova Zh.B. Ibraev M.K.	
1.1.2	Conducting extended biological testing to identify the most promising compounds. Preparation of laboratory regulations for obtaining the most active forms of compounds.	November- December 2022	Rakhimberlinova Zh.B. Ibraev M.K.	
1.2	Development of methods for isolation and technology of transformation of some natural triterpenoids in order to search for new biologically active substances on their basis.	2020-2022	Takibaeva A.T. Demets O.V.	
1.2.1	Selection of the most promising pharmacologically active derivatives of triterpenoids and their development for extended bioassays .			
1.2.1	Development of optimal technological parameters for obtaining the most bioactive modified triterpenoid derivatives .	September 2022	Demets O.V.	

1.2.2		October-December 2022	Takibayeva A.T. Demets O.V.	
2 .	Conclusion of economic agreements and participation in competitions for R & D financing:			
	General testing of the main building of the processing plant "LLP Nova Zinc" according to the current technological scheme.	December 2022	Omarova N.K. Sherembaeva R.T.	
	R&D performance on the initiative topic			
	Development of new methods for the transformation of lupanovic triterpenoids to amino-substituted derivatives in order to search for new biologically active substances.	September-June	Takibayeva A.T. Demets O.V.	
3 .	Training of scientific and scientific-pedagogical personnel 3.1 Scientific and pedagogical training of masters (number-4).	During the school year	Takibayeva A.T. Rakhimberlinova Zh.B.	
4 .	Publication of research results 4.1 Preparation of monographs - 2 ; 4.2 Publication of articles - 10 articles; (KOKSON-13, Scopus -7, CA -2) 4.3 Participation in conferences - 50 reports.	according to plan	Takibayeva A.T. Zhorabek A.A. PPP, undergraduates, students	
5 .	Participation in international conferences, KarTU : 5.1 Participation in the Republican student scientific conference “The contribution of youth science to the implementation of the Strategy “Kazakhstan-2050” Publication of theses-40 5.2 Participation in the scientific-practical conference “	April 2023	Takibayeva A.T., Tuktybaeva A.E. PPP, undergraduates and students Takibayeva A.T.,	

	Saginovsky readings (section Chemical and biological sciences). Publication of abstracts-25	June 2023	Zhorabek A.A. PPP, undergraduates and students	
6 .	inventive activity 6.1 Obtaining a Certificate of state registration of rights to an object of copyright - 10. 6.2 Submission of 4 patent applications.	During the school year	Takibayeva A.T., Zhorabek A.A., Rakhimberlinova Zh.B., Nurkenov O.A., Omarova N.K.	
7 .	International activity 7.1.Organizati on of foreign internships undergraduate gr.KhTOVM 21-1 Shapenova Z.R. To the Poznan Technical University (Poznan, Poland) 7.2 Joint publication of R&D results with Professor IV Kulakov. (Tyumen State University, Tyumen).	February-March 2023 March 2023	Takibayeva A.T., Tuktybaeva A.E. Takibayeva A.T. Rakhimberlinova Zh.B.	
8 .	Research work with students and undergraduates	According to the NIRSM plan (attached)	teaching staff	
9 .	Research work with enterprises of the Corporate University .	According to the NIRKU plan (attached)	Takibayeva A.T. Zhorabek A.A. Kinayatov M.A. Sherembaeva R.T.	

Reviewed and approved at the meeting of the department "Chemistry and Chemical Technologies" protocol No. ___ dated _____

Responsible for research

Zhorabek A.A.