

№ 6  
Алматы қаласы

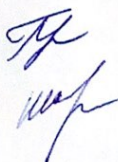
№ \_\_\_\_\_  
город Алматы

**Al-Farabi Kazakh National university  
Ethical approval of Local Ethical Committee**

1.	Full name of PhD student	Rakhmetullina Aizhan Kazievna
2.	Specialty of PhD Program	6D070100 - "Biotechnology"
3.	Time period of study at PhD Program	2018-2021
4.	Theme of the thesis	Characteristics of miRNAs binding with mRNAs of transcription factor genes of agricultural plants
5.	Information about scientific supervisor (-s) (Name, title, degree, work position and citizenship)	Ivashchenko A. T., doctor of biological sciences, professor, al -Farabi Kazakh National University, Almaty, Republic of Kazakhstan Piotr Zielenkiewicz, PhD, professor, Institute of Biochemistry and Biophysics, Polish Academy of Sciences, Warsaw, Republic of Poland
6.	Objects of study	miRNA and TF genes of fully sequenced plant genomes of <i>A. thaliana</i> , <i>O. sativa</i> , <i>Z. mays</i> and <i>T. aestivum</i>
7.	Planning, sampling and conducting of study (filled by LEC representative)	The nucleotide sequences of the TCP, MYB, ERF, HSF, C2H2, GRAS genes, were obtained from Plant Transcription Factor Database v4.0. The nucleotide sequences of <i>A. thaliana</i> , <i>T. aestivum</i> , <i>Z. mays</i> , and <i>O. sativa</i> miRNAs were taken from miRBase v.22. The aim of the work was to set the study of quantitative characteristics of the interaction of miRNA and target genes of transcription factors.
8.	Dissemination of results or practical implementation (filled by LEC representative)	The research results have been published in the articles from the list of the Committee for Quality Assurance in Education and international journals with a high impact factor. The copyright certificate "MirTarSeq" No. 15600 dated March 2, 2021 was received.
9.	Protection of rights, safety and welfare of research objects (filled by LEC representative)	The research is connected with plant objects and does not pose any danger or hurt animals or human.
10.	Code and number of approval	IRB-317
11.	Date of study approval	09.09.2021

Chair of LEC

Secretary of LEC



Ussatayeva G.

Shaukharova M.