

Elizaveta Kulaeva

Zorge 21E, 344015 Rostov-on-Don, Russia

+7(929)817-19-33

ked05685@gmail.com

Date of birth: 15.09.1998

[My ResearchGate](#)



Education

BSc, Southern Federal University

Academy of Biology and Biotechnology

Major – Genetics

Top 5% of the class

Sep 2017 – current
Rostov-on-Don, Russia

Additional education

Data Analysis in R, Introduction to Linux, Python Programming

Bioinformatics Institute (Russia)

Feb-Mar 2021
online

Molecular genetics in Oncology

Sechenov University (Russia)

Jan 2021
online

Fundamentals of Immunology

Rice University

July 2020
online

Epigenetic control of gene expression

The University of Melbourne

July 2020
online

Introduction to the Biology of Cancer

Johns Hopkins University

July 2020
online

Fundamentals of Statistics

Bioinformatics Institute (Russia)

May 2019
online

Biotechnology: Gene engineering

Bioinformatics Institute (Russia)

Jun – Aug 2019
online

Research experience

Southern Federal University, Department of Genetics

Supervisor – Prof. Elena Mashkina, Human and Animal Genetics laboratory

BSc research project

Comparison of mutation frequencies in DNMT3A and ASXL1 genes in myelodysplastic syndrome and acute myeloid leukemia

Sep 2020 – current
Rostov-on-Don, Russia

3d course research project

ATRX gene expression in human peripheral blood lymphocytes depending on the cell cycle phase

Sep 2019 – May 2020
Rostov-on-Don, Russia

St. Petersburg Institute of Nuclear Physics, Laboratory of Eukaryote Genetics

Supervisor – Prof. Vladimir Korolev

Internship

Role of CHD1 protein in *Drosophila* genome compactization

Jan-Feb 2019
Gatchina, Russia

SCAMT Institute (Solution Chemistry of Advanced Materials and Technologies), Laboratory of Molecular Robotics

Workshop

«DNA-machines against cancer» project

Jan 2019
St. Petersburg, Russia

Research skills

Nucleic acids	DNA and RNA extraction, nucleic acids spectrophotometry, PCR (classical, qPCR, RT-PCR, COLD-PCR), HRM analysis, gel electrophoresis, restriction analysis of DNA fragments
Model objects and cell cultures	Isolation and immunostaining of polytene chromosomes of <i>D. melanogaster</i> , Allium-test, skills of maintaining cultures of peripheral blood lymphocytes
Computer skills	Python (basic), R (basic), Prism, ImageJ, RNAstructure, SeeSAR

Publications

Kulaeva ED, Lipilkin PV. "Features of test system design for diagnosis and prognosis assessment in myelodysplastic syndrome based on somatic mutations in epigenetic regulators." *Russian Scientist* 4.1 (2020): 8-10. [[Russian and English](#)]

Kulaeva E.D., Volchik V.V., Bocharova O.V., Teplakova E.D. Shkurat M.A., Derevyanchuk E.G., Mashkina E.V. «Association of lipid metabolism genes SNP with the risk of overweight in children». *Genetic Testing and Molecular Biomarkers*, 2021. (In press)

Conference participation

Oral presentations

1. Conference of the Institute of Biology and Genetics of the Russian Academy of Sciences "CRISPRussia2020". Online, Dec 6, 2020.
2. International scientific conference of students, graduate students, and young scientists "Lomonosov". Moscow, Apr 8-12, 2019.
3. Conference of undergraduate and graduate students "Science Week of Southern Federal University". Rostov-on-Don, Apr 2-6, 2019.

Poster presentations

1. EMBL 14th conference "Transcription and Chromatin". Online, Aug 27-29, 2020.
2. Second Annual Summit of Young Scientists and Engineers. Sochi, Educational Center "Sirius", Oct 28 - Nov 3, 2019.

Awards and Honors

1. [International Tournament of Three Sciences \(Voronezh, Russia, 2018-2020\)](#)
2018 – Winning team member, best reporter
2019 – Winning team member
2020 – 3d place team member, best player
2. [Biotournament in Pushchino \(Pushchino, Russia, 2020\)](#)
Winning team member
3. [Russian National Student Olympiad «I'm a Professional» - 2020 \(Moscow, Russia, 2020\)](#)
Winner in «Biology» and «Bioengineering and Bioinformatics»
4. [Cargill Global Scholars Program \(Minneapolis, USA, 2019\)](#)
Recipient of scholarship and Cargill Global Seminar participant

Extracurricular activities

Lecturer of the project "Biology for Dummies" in the Southern Federal University.

2018 – current

Chairman of the Student Scientific Society of the Academy of Biology and Biotechnology.

Languages

English (Upper-Intermediate), Russian (Native)