

ALEKSANDRA GRESHNOVA

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EDUCATION

Lomonosov Moscow State University, Moscow
Bachelor of Biology, Department of Bioengineering
Relevant Courses: Cytology, Biochemistry, Genetics
GPA 5.0/5.0

September 2016 - Present

RESEARCH EXPERIENCE

Creation of Cell-Based Sensor for Arabinose

November 2018 - Present

Lomonosov Moscow State University, Shaytan A., Gluchov G.
- Worked on an *E.coli* based sensor for arabinose
- Worked with BioBricks from iGEM kit

Investigation of Cognitive Abilities of Microinsects

19-24 June, 2017 - Present

Lomonosov Moscow State University, A. Polilov
- Conducted over 70 experiments with microbeetle *Acrotrichis grandicollis*
- Confirmed the ability of microinsects to learn

QUALIFICATIONS AND SKILLS

Microbiology

Preparation of competent *E.coli* cells, transformation, cultivation, plasmid extraction

Molecular biology

PCR, restriction, ligation, nucleic acids electrophoresis

Programming

Basics of Python, R, MATLAB, Bash

ACADEMIC ACHIEVEMENTS

Winner of International Biology Universiade (Moscow, Russia) in team competition, second prize winner in individual competition in November 2018.

Editor's choice award in Bio/Mol/Text contest 2018 of science popular article for article "Synthetic biology: from computer programming to cell programming".

CONFERENCES

Students' Biological Conference, Zvenigorod

June 2017

Oral presentation: "Investigation of Cognitive Abilities of Microinsects"

Students' Conference "Mathematical Modeling in Biology", Moscow

December 2017

Oral presentation "Impact of Different Types of Inhibition on Enzyme Kinetics"

ARTICLES

N.Goncharov, A.Goracheva, **A.Greshnova**, G.Ivanov, D.Zagirova, A.Polinova, N.Solncev, T.Tarasova, S.Yanushkevich, A.Yakupova, **Investigation of Cognitive Abilities of Microinsects by the example of *Acrotrichis grandicollis***, *Flora and Fauna of Moscow Oblast*, Tom 10, Moscow, 2018

SUMMER SCHOOLS

Bioinformatics Summer School, Russia

23-28 July, 2018

Courses

Data Analysis with Python
Data Analysis with R
Command-line Tools for Bioinformatics

Project

Creation of Pipeline for Analysis of Whole
Genome Sequencing Data

ONLINE COURSES

Basics of Python

Stepik, Bioinformatics Institute

Application of Python

Stepik, Bioinformatics Institute

Basics of Statistics

Stepik, Bioinformatics Institute

Principles of Synthetic Biology

EdX, MIT

From Disease to Genes and Back

Coursera, Novosibirsk State University

EXTRA-CURRICULAR ACTIVITIES

Co-Organized Scientific club of Faculty of Bioengineering and Bioinformatics - organised meeting for students with lectures from alumni. workshop on synthetic biology for high-school students.

Wrote a science popular article for Bio/Mol/Text contest 2018 "Synthetic biology: from computer programming to cell programming"

LANGUAGES

Russian

Native speaker

English

Advanced

German

Beginner

REFERENCES

Dr. Alexey K. Shaytan (Group Leader)

Integrative Biology Group, Department of Bioengineering, Faculty of Biology, Moscow State University
email: alex@intbio.org