



Erik Zhivkopljas

Curriculum Vitae

Scientific interests

Transcription mechanisms, Genetics, Molecular biology, Bioinformatics, Genetic Engineering. New biotechnological applications of microorganisms. Synthetic and System biology.

Education

09/2013–
Present **Undergraduate Student, 3rd year**, *The Saint Petersburg State University, Saint-Petersburg*, Average grade – 4.6/5.
Faculty of Biology, Department of Genetics and Bioengineering

09/2015–
Present **Student bioinformatician**, *The Institute of Bioinformatics, Saint-Petersburg*, Average grade – 5/5.
Program: Bioinformatics for Biologists

Research

10/2015–
Present **Research assistant**, INSTITUTE OF NANOBIOLOGICAL TECHNOLOGIES, SAINT-PETERSBURG STATE POLYTECHNICAL UNIVERSITY, Saint-Petersburg (Russia).
Research topic: Non-canonical multisubunit vRNAP encoded by the phiKZ phage. Advisors: Marya Yakunina and Prof. Konstantin Severinov

09/2015–
12/2015 **Student researcher**, RESEARCH DIVISION AT BIOINFORMATICS INSTITUTE, Saint-Petersburg (Russia).
Fall research topic: Finding the optimal cell basis for transcriptome assembling. Advisor: Dr. Alexander Predeus

02/2014–
10/2015 **Research assistant**, THE LABORATORY OF BIOCHEMICAL GENETICS, SAINT-PETERSBURG STATE UNIVERSITY, Saint-Petersburg (Russia).
Research topic: Genes regulation of the enzymes involved in methanol metabolism of *Pichia pastoris*. Advisor: Dr. Andrey Rumjantsev

Lab skills

Molecular cloning DNA isolation and purification, primer design, PCR techniques, reverse transcription, restriction, ligation, bacterial and yeast transformation, plasmid purification, agarose gel electrophoresis techniques, light (fluorescent) microscopy

Protein assays Protein purification, PAGE electrophoresis, Measuring of enzymes activity (acid phosphatase assay), Western blot, Immunoprecipitation

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Computer skills

Basic programming	Python, R, bash
Operating system	MS Windows and Linux
Bioinformatics applications	Bowtie2, Samtools, RSEM, Salmon, Bedtools, SPAdes, Quast, FastQC, Prokka, IGV Browser, R Studio, etc.

Certificates in Online Education

Coursera.org	Introduction to Bioinformatics (with distinction), Introduction to Genetics and Evolution
edx.org	7.28.1x: Molecular Biology: DNA Replication and Repair, 7.28.2x: Molecular Biology: Transcription and Transposition
stepic.org	Introduction to Linux (with distinction), Basic of Statistics (with distinction), Biotechnology: Genetic engineering (with distinction)

Languages

Russian	Mothertongue	
English	Fluent	
Spanish	Pre-Intermediate	<i>Everyday conversation</i>