

# CURRICULUM VITAE

## **Yury V. Ivanov**

Ph.D. candidate

Department of Biological Sciences,  
Bowling Green State University,  
Bowling Green, OH-43403, USA

### **Personal Details**

Date of Birth: December 3, 1984

Place of birth: Saint-Petersburg, Russia

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### **Education**

2008- 2011, Concurrent certificate program “Bioinformatics: Proteomics/Genomics”, Bowling Green State University, Department of Biological Sciences, USA in collaboration with University of Toledo, Medical College, Bioinformatics Department.

2007- present, Ph.D. Biological Sciences, Bowling Green State University, USA.

2002-2007: Specialist degree (B.S and M.S. combined) in Chemistry (Radiochemistry major), Saint-Petersburg State University, Russia.

1992-2002: Lyceum #533, Chemistry and Biology (second language: English), Saint-Petersburg, Russia.

### **Positions Held**

Graduate Student Senator, GSS, Bowling Green State University, 2010 – 2011;

Graduate Teaching Assistant, BIOL 2050, Concepts in Biology II (4 units), 2007 – 2011

### **Research Interests**

1. Bacterial transport systems of nutrients;
2. Phage genetics, morphology, evolution;
3. Bioinformatics (genomics/proteomics);
4. Protein biochemistry.

## Research Experience

Summer 2008 – Fall 2011:

Doctoral Thesis “The roles of moron genes in the *Escherichia coli* enterobacteria phage  $\phi 80$ ”,  
Department of Biological Sciences, Bowling Green State University, USA.

Experience gained: experience working with tailed phages and *E. coli* bacteria;  
extraction and purification of DNA and proteins; PCR cloning, mutagenesis, and labeling  
techniques; SDS-PAGE and Western Blotting; radiolabeled iron transport in bacteria;  
bacteriophage and *E. coli* visualization utilizing TEM, SEM, and AFM microscopy;  
application of bioinformatics techniques to study prokaryotic and viral genomes.

Fall 2005 – Spring 2007:

Specialist degree thesis “*L* $\alpha$  X-ray emission spectra and chemical environments of Rare  
Earths in some selected compounds”, Saint-Petersburg State University, Department of  
Chemistry, Russia.

Experience gained: working with X-ray spectrometer and radioactive materials; quantitative  
and qualitative analysis of Rare Earths-containing solid compounds using various statistical  
approaches; fundamental understanding of the atomic structure; identification of oxidative  
states of  $^{238}\text{U}$  in various uranium compounds.

Winter 2005 – Spring 2005:

Undergraduate Research Assistant, “Heterogeneous catalysis in organic chemistry”, Saint-  
Petersburg State University, Department of Chemistry, Russia

Experience gained: working experience in an organic laboratory; literature review of the  
heterogeneous catalysis in organic chemistry.

Fall 2003 – Spring 2004:

Undergraduate Research Assistant, “Processes in membranes: Mass transfer”, Saint-  
Petersburg State University, Department of Chemistry, Russia

Experience gained: Literature review of mass transfer in membranes focusing on  
baromembrane processes.

Winter 2002 – Spring 2003:

Undergraduate Research Assistant, “Research study of compression isotherms of stearic acid  
on the water sub-phase”, Saint-Petersburg State University, Department of Chemistry, Russia

Experience gained: Working with colloid solutions; preparing monolayer films of stearic acid  
on glass surfaces; measuring the diameter of stearic acid polar heads (carboxyl groups) using  
compression isotherms.

## Professional Societies

- “American Society for Microbiology” (ASM), USA, January 2011 – till present;  
“Golden Key International Honour Society”, USA, November 2010 – till present;  
“Mendeleev’s Science Society”, Saint-Petersburg, Russia, June 2002 – till present.

## Professional skills:

- ❖ Genomics: PCR techniques, DNA Extraction and Purification techniques, Mutagenesis techniques, Transformation, and Molecular Cloning.
- ❖ Biochemistry: SDS-PAGE and Western blotting; protein labeling using PCR techniques; protein extraction and purification.
- ❖ Microbiology: Radiolabeled iron transport in bacteria; phage and colicin spot-titer assays.
- ❖ Chemistry: General Radiometry; Anion exchange chromatography; Alpha-, Gamma-, and X-ray Spectroscopy; and various physico-chemical methods of analysis; organic chemistry, radiochemistry, electrochemistry, colloid chemistry, and analytical chemistry laboratory experiences;
- ❖ Bioinformatics: genomics/proteomics techniques; computational analysis and representation of microarray data; visualization of crystal structures of proteins using PyMol software.
- ❖ Microscopy: Transmission Electron Microscopy; Scanning Electron Microscopy; Atomic Force Microscopy.
- ❖ Computer skills: Perl (familiar); R (familiar); Linux (familiar); HTML (familiar).
- ❖ Languages: English and Russian.