# ANITA VARGA- BOGDANOV, MRS PhD

# CAREER HIGHLIGHTS

#### Institute of Medical Microbiology and Immunology, Faculty of Medicine, University of Szeged, Hungary (September 2018- present)

#### Junior assistant professor

- Supervising of student's thesis.
- Teaching practical classes for medical students, dentist and pharmacist students in medical microbiology.
- Virology and bacteriology experiments.
  - Preparation of human cell cultures: HeLa, Vero, Hep-2C, McCoy, HL-60, U-937
  - Infection experiments: *Chlamydia trachomatis, Chlamydia pneumoniae, Chlamydia muridarum*, HSV
  - Processing: DNA extraction, PCR techniques,
  - ELISA, immunofluorescent staining
  - MTT cytotoxicity method

Institute of Medical Microbiology and Immunology, Faculty of Medicine, University of Szeged, Hungary

(September 2017- June 2018)

#### Academic staff

- Virology and bacteriology experiments.
  - Preparation of human cell cultures: HeLa, Vero, Hep-2C, McCoy, HL-60, U-937
  - RNA and DNA isolations, PCR techniques, gel electrophoresis.
  - ELISA technique
- Supervising of student's thesis.

University of Illinois at Chicago (May 2013-April 2014)

# Research Scholar (Rosztoczy Foundation Scholarship Program)

- Virology (HSV-1) experiments
- I worked at University of Illinois at Chicago for one year. My experiments focused on examining HSV-1 treatment with peptides and some novel compounds.

# Institute of Clinical Microbiology, Faculty of Medicine, University of Szeged, Hungary (December 2011 – August 2012)

# Biologist

- Fungal DNA preparation from human serum and whole human blood.
- Virology, bacteriology and parasitology clinical diagnostics.
- RNA isolation, PCR techniques, gel electrophoresis and cycle sequencing.

# Department of Forensic Medicine, University of Szeged, Hungary (September 2008 – December

#### Intern

• My project focused on DNA analysis from fingerprints. During this time I gained experience in use of the basic genetical and molecular biological methods. I also wrote my thesis from this topic.

#### EDUCATION

# September 2012 – January 2018

PhD candidate in Medical Microbiology, University of Szeged, Hungary

Supervisors: Prof. Judit Deak, M.D. Phd. Habil, Dezso Virok, M.D., Phd.

#### **RESEARCH EXPERIENCE:**

During my work at the Department of Medical Microbiology and Immunology, University of Szeged, I gained experience in basic laboratory techniques of microbiology and molecular biology. Specifically, I am experienced in:

- Preparation of human cultures, analytical methods, DNA and RNA isolation, PCR techniques, gel electrophoresis and cycle sequencing.
- Detection the efficacy of anti-chlamydial compounds (*Chlamydia trachomatis* and *Chlamydia pneumoniae*).
- Detection the efficacy of anti-HSV compounds.

**Thesis title**: Development of a novel chlamydia growth-monitoring method and its application for screening anti- and pro-chlamydial compounds

# September 2012- June 2017

#### Master's Degree in Economics, University of Szeged, Hungary

Majors:

- Statistics
- Marketing
- Management
- Law in economics
- Controlling
- Finance
- Economics science

# September 2004 – June 2011

# Master's Degree in Biology, University of Szeged, Hungary

Majors:

- Biochemistry, physiology, immunology
- Biotechnology
- Genetics, molecular biology
- Plant physiology, plant taxonomy
- Animal physiology, animal taxonomy

#### 2010)

#### **RESEARCH EXPERIENCE:**

During my work at the Department of Forensic Medicine, University of Szeged, I gained experience in basic laboratory techniques of genetics and molecular biology. I also have one year experience in using methods of clinical microbiology and general microbiology. Specifically, I am experienced in:

- Preparation of human cultures, analytical methods, DNA and RNA isolation, PCR techniques, gel electrophoresis and cycle sequencing.
- Fungal DNA preparation from human serum and whole human blood.

# LANGUAGES:

- Hungarian: Native
- English: Intermediate
- German: Basics

#### Awards & achievements:

Scholarship: Rosztoczy Foundation Scholarship Program (October 2012)