



## Valentina Lyubenova Peycheva, PhD

Molecular Biologist, Geneticist

### Nationality

Bulgarian

### Driving License

Yes

### Skills

- Genetics - Molecular methodologies using DNA
- Genomics and personalized medicine
- Scientific research
- Laboratory skills
- Presentation and good communication skills
- Project management
- Interpersonal skills
- MS Office
- Ability to work under pressure
- Team work
- Time management
- Excellent organizational skills
- Decision making
- Good writing skills

### Languages

Bulgarian – mother tongue

English – C1 level

## Employment history

### Geneticist

**Laboratory of Genomic Diagnostics, Molecular Medicine Center, Medical University – Sofia**

January 2017- present

Duties: Pre- and postnatal diagnostics of patients with Rare genetic diseases using various molecular genetics and genomic approaches (Direct DNA sequencing, MLPA analysis, Real Time quantitative PCR, Microarray Analysis, Next-Generation Sequencing Analysis - WES), Communication with clinicians and patients; Analysis and interpretation of Genomic data, Participation and Management of Research projects, Writing research articles and scientific projects

### Part-time assistant professor

**Medical University – Sofia**

November 2019- 2025

Duties: Biochemistry seminars and practicals

### Part-time Medical representative

### Part-time Medical Laboratory Technician

**IMDL Kandilarov, Sofia**

April 2007- April 2008

Duties: Performing a daily meetings with clinicians and presenting the laboratory products.  
Taking blood samples. Blood tests, biochemical analysis.

### Internship

**AgroBioInstitute, Sofia**

December 2009- February 2013

Duties: Molecular phenotypization using DNA biomarkers of different types of wheat using genetic methods,  
Writing my master thesis

### Medical Laboratory Technician

**Medical Center “Europe”, Sofia**

April 2006- April 2007

Duties: Taking blood samples. Blood tests, biochemical analysis.

## Certificates

Cambridge ESOL Level 1  
Certificate in English -  
University of Cambridge,  
United Kingdom

Certificate of accomplishment  
in online course  
"Bioinformatics: introduction  
and methods"; Center for  
Bioinformatics, Peking  
University, China.

## Participations in scientific forums

- International Conferences: 15 participations
- Bulgarian Conferences: 14 participations

## Memberships

European Society of Human  
Genetics (ESHG)

## Hobbies

Traveling, mountain hiking,  
cycling, skiing, snorkeling,  
playing table tennis

## Education

### PhD in Molecular Biology

**Molecular Medicine Center, Medical University – Sofia**  
January 2014 – March 2019

PhD thesis: "Molecular genetic and genomic changes in patients with epilepsy, intellectual disability and congenital anomalies"

During my PhD I have written and managed two scientific projects, financed by MU-Sofia and have participated in one research project financed by Scientific Research Fund, Bulgaria; I have written three research articles.

### Master's Degree of Cell and Genetic Engineering

**Faculty of Biology, Sofia University**  
September 2011 – February 2013

Master thesis: „Molecular markers for evidence of introgression of genomic segments in durum wheat from close and distant relatives of the family Graminae “  
Core modules: Functional genetics (genomics), Cancer genetics, Molecular biology of the cell, Bioinformatics, Genetic engineering of plants

### Bachelor's Degree in Molecular Biology

**Faculty of Biology, Sofia University**  
September 2007 – June 2011

Core modules: Molecular biology, Genetics, Microbiology, Virology, Immunology, Recombinant DNA

### Specialist Degree in Medical Laboratory Technican

**Medical College as part of Medical University- Sofia**  
September 2003 – June 2006

**Core modules:** Clinical Laboratory Techniques, Pathobiochemistry, Histology, Medical Genetics

## Scientific publications in journals with impact factor

Peycheva, Valentina, et al. "Impact of KCNQ2 mutations in Bulgarian patients with electroclinical syndromes with onset in the first year of life." *Biotechnology & Biotechnological Equipment* 31.1 (2017): 138-142.

Ivanova, Nevyana, et al. "Three novel SLC2A1 mutations in Bulgarian patients with different forms of genetic generalized epilepsy reflecting the clinical and genetic diversity of GLUT1-deficiency syndrome." *Seizure* 54 (2018): 41-44.

Peycheva V, Kamenarova K, Ivanova N et al., 2018. Chromosomal microarray analysis of Bulgarian patients with epilepsy and intellectual disability. *Gene*. 667:45-55.

Peycheva, Valentina, et al. "SCN1A mutation spectrum in a cohort of Bulgarian patients with GEFS+ phenotype." *Turkish Journal of Pediatrics* 62.5 (2020).