

Kristiyana Vitanova

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WORK EXPERIENCE

PHD STUDENT – MEDICAL UNIVERSITY OF SOFIA – 01/01/2024 – Current – SOFIA, BULGARIA

- PhD Program in "Molecular Biology"
- PhD Thesis Topic: "Genomic and Epigenomic Factors in Cardiovascular Diseases"

MOLECULAR BIOLOGIST – MOLECULAR MEDICINE CENTER, MEDICAL UNIVERSITY OF SOFIA – 01/03/2022 – Current – SOFIA, BULGARIA

Business or Sector: Human health and social work activities | **Address:** ул.Здраве, №2, Sofia, Bulgaria | **Website:** <https://lgdbg.org/>

Genomics Laboratory:

- Extraction of DNA/RNA from various biological samples
- Determination of the quality and quantity of DNA and RNA
- DNA sequencing using next-generation sequencing (NGS) platforms MiSeq and NovaSeq
- Long-read sequencing (LRS) using Oxford Nanopore Technologies
- Whole-exome sequencing analysis, targeted sequencing analysis
- Sanger sequencing
- Amplification of DNA via conventional PCR and RT-PCR

BIOLOGIST – LABORATORIA.BG – 20/02/2022 – 01/01/2023 – SOFIA, BULGARIA

Business or Sector: Human health and social work activities | **Department:** Здравеопазване | **Website:** <https://laboratoria.bg/>

- COVID-19 detection using RT-PCR
- Analyzing the results
- Sampling for antigen tests
- Registration of patients

EDUCATION AND TRAINING

10/2021 – 11/07/2023 Sofia, Bulgaria

MASTER'S DEGREE OF "GENETICS AND GENOMICS" Sofia University St. Kliment Ohridski, Faculty of Biology

The main focus of the program is on studying the molecular bases and mechanisms of heredity and variability using modern methods of classical and molecular genetics.

Field of study Biology, Biochemistry | **Final grade** Master's degree |

Thesis "Identification of Genetic Defects Responsible for Cataracts in Bulgarian Patients"

10/2017 – 09/2021 Sofia, Bulgaria

BACHELOR OF "MOLECULAR BIOLOGY" Sofia University St. Kliment Ohridski, Faculty of Biology

The program offers in-depth knowledge in the field of natural sciences, particularly biology, and provides good practical training.

Field of study Biology | **Final grade** Bachelor |

Thesis "Identification of Fungal Pathogens Circulating in the Bulgarian Population Using DNA Barcode Analysis"

SKILLS

Nautilus LIMS for Biobanking and Biorepository Management | Microsoft office pack | Joystick

CERTIFICATES

Student Internship under the Ministry of Education and Science "Clinical Microbiology" at the Stefan Angelov Institute of Microbiology - Bulgarian Academy of Sciences (BAS)

Certificates for successfully completed online courses (coursera.org)

Antimicrobial resistance - theory and methods/ Technical University of Denmark (DTU); Design and Interpretation of Clinical Trials/ Johns Hopkins University; Dermatology: Trip to skin/ Novosibirsk State University

Postgraduate certificate of education "Biology Teacher"

2026

Best Poster Presentation Award (Third place certificate)

Poster presentation: Association of Common Cardiovascular Genetic Variants with Coronary Artery Disease in a Bulgarian Case-Control Cohort

2026

Advanced Nanopore Training in Library Preparation with SQK-LSK114 and sequencing on PromethION 24

CONFERENCES AND SEMINARS

Vienna, Austria

European Biobank Week 2024

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Berlin, Germany

European Human Genetics Conference 2024

Milan, Italy

European Human Genetics Conference 2025

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Varna, Bulgaria

European Biotechnology Congress 2026

VOLUNTEERING

Member of the Faculty Student Council of the Faculty of Biology at Sofia University "St. Kliment Ohridski"

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2025 – CURRENT

Member of the Faculty Council of the Faculty of Medicine, Medical University-Sofia

DRIVING LICENCE

Driving Licence: B

LANGUAGE SKILLS

Mother tongue(s): **BULGARIAN**

Other language(s):

| | UNDERSTANDING | | SPEAKING | | WRITING |
|---------|---------------|---------|-------------------|--------------------|---------|
| | Listening | Reading | Spoken production | Spoken interaction | |
| ENGLISH | C1 | B2 | B2 | B2 | B2 |

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user