

MSc. YEVHENIY YULIY PERESH

With a deep enthusiasm for microbial research and a firm foundation in: proteomics, gram-negative bacteria cultivation, cell biology, infection, bacterial genetics and protein expression, microbial pathogenesis, or environmental microbiology. I am eager to contribute my skills, curiosity, and collaborative spirit to your research group.

CONTACT

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LANGUAGE SKILLS:

Ukrainian - native language
English - C1 (UNiCert)
Slovak - C1
Russian - C1
Czech - B2
German - B1

LABORATORY SKILLS

- Vero, HaCaT cell passaging and cultivation
- isolation of viruses
- virus plaque purification
- infection by *Rickettsia conorii*, *R. slovaca*, *R. helvetica*, and *Coxiella burnetii*
- ticks infection: *Dermacentor reticulatus*, *D. marginatus* and *Ixodes Ricinus*
- isolation of DNA, RNA and proteins extraction
- DNA and protein analysis

EDUCATION

Doctorate degree, 06.09.2022 – currently

Faculty of Natural Sciences, Comenius University in Bratislava

Study program: Microbiology

Title of dissertation thesis in progress: Genomic and proteomic studies of vector-borne microorganisms in their vectors and hosts

Supervisor: Mgr. Eva Špitalská, PhD.

Master's degree, 08.09.2020 – 30.06.2022

Faculty of Natural Sciences, Comenius University in Bratislava

Study program: Virology

Title of diploma thesis: Optimization and determination of Sanger sequencing using different primers for rapid identification of enteroviruses

Supervisor: prof. Shubhada Bopegamage MSc., PhD.

Bachelor's degree, 21.09.2017 – 18.06.2020

Faculty of Natural Sciences, Comenius University in Bratislava

Study program: Biology

Title of bachelor thesis: Reservoir animals of mouse gammaherpetic virus

Supervisor: prof. RNDr. Jela Mistríková, DrSc.

Secondary school, 01.09.2012 – 15.06.2015

Ukrainian Medical Lyceum O. O. Bohomoltsia, Kyiv, Ukraine

Study program: Medicine

RELEVANT WORK EXPERIENCE

Technical Staff, 01.09.2025 – Currently

Slovak Academy of Science - Bratislava, Slovak Republic

- Isolation of bacterial DNA/RNA and work with patient samples
- Work with pathogens (*Rickettsia spp.* and *Coxiella burnetii*), qPCR and RT-PCR analyses
- Work during PhD. Studies

- protein purification, protein data analysis
- Sanger´s sequencing
- qPCR, RT PCR and Nested PCR analysis
- Western blot method
- Bradford assay
- Mass spectrometry, MALDI-TOF

OTHER SKILLS

- Microsoft Excel, PowerPoint, Word
- Geneious Prim
- BLAST
- Primer3
- Teamwork
- Time management
- Working under stress
- Communication skills
- Responsibility
- Reliability
- Precision

DRIVER'S LICENSE

B

Laboratory Technician, 01.09.2020 – 01.06.2022

*Slovak Medical University in Bratislava - Bratislava, Slovak Republic
Department of Enteroviruses at SMU*

- Training in laboratory operation (making solutions, culture media, working with cell cultures)
- Assistance to medical and scientific workers
- Work at the Mobile testing site during the COVID-19 pandemic (sample collection)

COURSES:

Language and professional preparation for university studies in the Slovak language, 01.09.2015 – 01.06.2016

Centre for Continuing Education of Comenius University in Bratislava

PUBLICATIONS:

Peresh, Y. Y., Šoltys, K., Klúčár, L., Beke, G., Kováčová, M., Špitalský, Z., & Špitalská, E. (2024). *Carbon nanodots as photosensitizer in photodynamic inactivation of Rickettsia slovaca*. Photodiagnosis and photodynamic therapy, 50, 104402. <https://doi.org/10.1016/j.pdpdt.2024.104402>

Peresh, Y. Y., Špitalský, Z., Shaalan, M., & Špitalská, E. (2025). *Anti-Rickettsial Activity of Chitosan, Selenium, and Silver Nanoparticles: Efficacy in Vero Cells*. Pathogens (Basel, Switzerland), 14(9), 885. <https://doi.org/10.3390/pathogens14090885>

Špitalská, E., Ševčík, M., Peresh, Y. Y., & Benda, P. (2024). *Bartonella in bat flies from the Egyptian fruit bat in the Middle East*. Parasitology research, 123(2), 144. <https://doi.org/10.1007/s00436-024-08165-6>

CONFERENCES:

4th International Student and 17th Bridges in Life Sciences Conferences. Third workshop on biomarkers of infectious, oncological, and neurodegenerative diseases, Stará Lesná, Slovakia

48th FEBS Congress, Milano, Italy

49th FEBS Congress, Istanbul, Turkey

27th Biochemistry Congress of Slovak and Czech Societies for Biochemistry and Molecular Biology, with cooperation of Hungarian and Ukrainian Biochemical Societies, Starý Smokovec, Slovakia

PARADNI24 Parasites of the 21st Century XV. Slovak and Czech Parasitological Days, Stará Lesná, Slovakia