



Varvara Lazarenko

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PERSONAL STATEMENT

I am a curious and dedicated graduate with a Master's degree in Medical Biology, driven by a passion for advancing healthcare through science. My experience spans both fundamental research and clinical trial development. With a solid biomedical background and a keen interest in sharing knowledge, I am motivated to learn new research methods and to grow within the academic field.

EDUCATION

- 09/2022 – 08/2024 **MSc in Medical Biology – Radboud University, Nijmegen, The Netherlands**
- ✓ Specialisation: Science, Management and Innovation
 - ✓ GPA result: **7.63/10.00**
 - ✓ Principal subjects: Future of health, How Health Systems Work, Sustainable Innovation Management, Molecular and Cellular Neurobiology, Molecular Therapy, Trends in Stem Cell Biology
 - ✓ Master thesis: «Potential added value of home telemonitoring technology in elderly care», GPA result: **8.00/10.00**
- 09/2016 – 06/2020 **BSc in Biology – Lomonosov Moscow State University (MSU), Moscow, Russia**
- ✓ Specialisation: Human and Animal Physiology
 - ✓ GPA result: **4.83/5.00**
 - ✓ Principal subjects: Human and animal physiology, Electrophysiology of excited cells, Physiology of central nervous and visceral systems, Physiology of circulation, Biochemistry, Immunology, Genetics, Microbiology, Embryology
 - ✓ Skills: qPCR, RT-PCR, gel electrophoresis, wire myography, western blotting, ELISA, HPLC, microscopy, cell culture, immunohistochemistry, intracellular recording (microelectrodes, patch clamp), behaviour tests (open field test, elevated plus maze, light-dark box test)
 - ✓ Bachelor thesis: «Role of TASK-1 channels in arterial tone regulation in different organs in rats», GPA result: **5.00/5.00**

WORK EXPERIENCE

- 10/2024 – current **Part-time staff while searching for a life sciences position**
Renato's Pizzeria – Nijmegen, The Netherlands
- ✓ Providing customer service
 - ✓ Selling the restaurant's menu
- 02/2024 – 08/2024 **Intern at Digital Transformation of Rehabilitation Care**
HAN University of Applied Sciences – Nijmegen, The Netherlands
- ✓ Added value research of home telemonitoring in elderly care based on the HTA framework presented onto the Quadruple aim
 - ✓ Deployment of surveys (22) in Dutch and interviewing (7) medical professionals in English on their home telemonitoring experience/attitude
 - ✓ Cost-effectiveness analysis (Markov model cohort simulation) on home telemonitoring in the Netherlands
- 02/2023 – 08/2023 **Intern at Neuronal Networks of Memory**
Donders Institute – Nijmegen, The Netherlands
- ✓ *In vivo* Ca²⁺ imaging of the retrosplenial cortex in mice during head-fixed virtual social learning using two-photon microscopy
 - ✓ Management of laboratory animals (GCaMP6 transgenic mice, handling & feeding, craniotomy)
 - ✓ Computational analysis of the obtained data (Python, DeepLabCut)

- 08/2021 – 08/2022 **Assistant at the Science Department of the Contract Research Organization**
LABMGMU, LLC – Moscow, Russia
- ✓ Developing designs, synopses, protocols, investigator's brochures for more than 35 phase I, II, III clinical trials and bioequivalence trials
 - ✓ More than 30 user interviews (testing the readability of pharmaceuticals' package leaflets)
 - ✓ Advising on the number & design of (pre-)clinical studies for pharma clients
 - ✓ Project management (control of the deadlines; compliance with the sponsor's requirements)
 - ✓ Computational analysis of the obtained data (STATISTICA, GraphPad Prism)
- 10/2020 – 10/2021 **Junior Research Assistant at Faculty of Biology**
Lomonosov Moscow State University – Moscow, Russia
- ✓ Physiological experiments (wire myography technique, rat coronary and renal arteries)
 - ✓ Molecular experiments (RNA extraction, reverse transcription, qPCR, western blotting)
 - ✓ Cell and tissue culture experiments (cultivation of arteries in the presence of methoxamine, isoproterenol, and H₂O)
 - ✓ Management of laboratory animals (Wistar rats: housing, care, breeding)
 - ✓ Statistical analysis of the obtained data (STATISTICA, GraphPad Prism)
 - ✓ Project management (experiment and research strategy planning)
 - ✓ Presentation of the results at the [virtual conference ARTERY20](#), 23-24 October 2020, and at the [Conference "Lomonosov-2021"](#), 12-23 April 2021

SCIENTIFIC JOURNAL PUBLICATIONS

1. Shvetsova Anastasia A., **Lazarenko Varvara S.**, Gaynullina Dina K., Tarasova Olga S., Schubert Rudolf (2022). TWIK-Related Acid-Sensitive Potassium Channels (TASK-1) Emerge as Contributors to Tone Regulation in Renal Arteries at Alkaline pH. *Frontiers in physiology*, 13: 895863. <https://doi.org/10.3389/fphys.2022.895863>
2. **Lazarenko Varvara**, Shvetsova Anastasia, Gaynullina Dina, Schubert Rudolph (2020). TASK-1 Channels Play an Anticontractile Role in Rat Septal Coronary Artery Under Pharmacological Blockade of Endothelium. *Artery Research*, 26(S1): S58. <https://doi.org/10.2991/artres.k.201209.048>
3. Borzykh A.A., Kuzmin I.V., Kiryukhina O.O., Selivanova E.K., Shvetsova A.A., **Lazarenko V.S.**, Los-Arkos Uvarova S., Nesterenko A.M., Tarasova O.S. (2020). Voluntary running training of female rats during gestation: characteristics of an experimental model [in Russian]. *Aviakosmicheskaya i Ekologicheskaya Meditsina*, 54(2): 89–95. <https://www.elibrary.ru/item.asp?id=42721639>

CERTIFICATES

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| 2023 | A FELASA accredited course on Laboratory Animal Science (EU function B) at Radboudumc |
| 2021 | An upgrade training on ICH guidelines on Good Clinical Practice (GCP) at LABMGMU |

ACADEMIC HONORS AND AWARDS

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|-----------|---|
| 2022-2024 | Awarded Orange Tulip Scholarship for the studies at Radboud University |
| 2020-2021 | Awarded MSU Increased State Academic Scholarship for scientific and academic achievements |
| 2021 | Second prize-winner in the Lomonosov Universiade on modern problems of biology |

DIGITAL SKILLS

Python (beginner), DeepLabCut, STATISTICA, GraphPad Prism, Rotor-Gene Q Series, and MS Office softwares

LANGUAGES

Russian (native), English (fluent – C₂), German (intermediate – B₁-B₂), Dutch (low intermediate – A₂-B₁), French (beginner – A₁)

VOLUNTEERING ACTIVITY

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| 2024 | Mentorship of the international exchange and Master's students at the Radboud Intro |
| 2023 | Organization of the BBB Career Event 2023, Nijmegen |
| 2022-2023 | Organization of volleyball tournaments in the international volleyball group at Radboud |
| 2018-2021 | Mentorship of the first-year students at Faculty of Biology, MSU, Moscow |

HOBBIES

Animals (horses & dogs), volleyball, reading, drawing, guitar playing, traveling