



# 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 genuine passion for neuroscience. 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 do meaningful research to support the health and well-being of both people and animals.

## 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, Embryology, Genetics, Microbiology, Biochemistry, Immunology, Psychology
- ✓ Skills: PCR, qPCR, RT-PCR, gel electrophoresis, wire myography, western blotting, ELISA, 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* Ca<sup>2+</sup> 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 >35 phase I, II, III clinical trials and bioequivalence trials
- ✓ >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 (wire myography technique, rat coronary and renal arteries) and molecular (RNA extraction, reverse transcription, qPCR) experiments
- ✓ 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 [28th International Scientific 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 – C<sub>2</sub>), German (intermediate – B<sub>1</sub>-B<sub>2</sub>), Dutch (low intermediate – A<sub>2</sub>-B<sub>1</sub>), French (beginner – A<sub>1</sub>)

### VOLUNTEERING ACTIVITY

- |           |   |
|-----------|---|
| 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