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 clinical, pharmaceutical, or 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, Embryology, Genetics, Microbiology, Biochemistry, Immunology
- ✓ 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^{2+} 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

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

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_2), German (intermediate – B_1-B_2), Dutch (low intermediate – A_2-B_1), French (beginner - A_1)

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

Motivation letter

Dear Dr. van den Biggelaar,

I would like to express my strong interest in the PhD position in Platelet (phospho)proteomes in Health and Disease within the Medical Priority Bleeding & Hemostasis group at Sanquin Research. This inspiring position perfectly matches my long-standing interest in biology and hematology, and I am eager to apply my interdisciplinary training and hands-on laboratory expertise to study platelet biology and platelet signaling mechanisms.

I hold a BSc in Biology and an MSc in Medical Biology, where I gained a strong foundation in molecular biology, genetics, physiology, and biomedical techniques. Through my studies and work experience, I built a broad set of wet lab skills, including PCR/qPCR, western blotting, gel electrophoresis, RNA/DNA extraction, ELISA, liquid chromatography, and immunohistochemistry. I also have experience with high-precision techniques such as patch-clamp electrophysiology, microelectrodes, and wire myography, which strengthened my ability to work with complex, data-rich systems.

During my MSc internship at the Donders Institute, I quickly learned to use a complex two-photon calcium imaging system and carried out in vivo experiments on neuronal activity in social fear learning in mice, analyzing the imaging data in Python. This strengthened my technical skills and showed that I can adapt quickly to advanced equipment and data analysis. I am enthusiastic about learning advanced proteomics and bioinformatics approaches while leveraging my existing expertise in protein expression, purification, and complex instrumentation.

My motivation to work on the role of platelets in hemostatic disorders stems from both scientific curiosity and a long-standing fascination with blood and circulatory physiology. For my BSc thesis and later as a Junior Research Assistant in the same laboratory, I studied the role of acid-sensitive two-pore potassium channels (TASK-1) in the vascular tone regulation in rat arteries using the wire myography, RNA extraction, and qPCR. I also contributed to a preeclampsia research project and an artery cultivation study, which broadened my understanding of vascular biology. Building on this background, I am particularly motivated by the opportunity to apply ‘omics’ approaches to uncover novel mechanisms of platelet dysfunction and to work closely with your multidisciplinary team.

To sum up, I hope that my interdisciplinary training, practical lab experience, and dedication to research make me a worthy candidate for this position.

Thank you for considering my application. Should any questions arise, please do not hesitate to contact me.

Warm regards,
Varvara Lazarenko