



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 elderly peripheral arterial disease (PAD) patients 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>

CONFERENCE PUBLICATIONS

1. **Lazarenko V. S.**, Shvetsova A. A. (2021). Removal of the endothelium leads to augmented contractile responses in rat renal interlobar arteries under alkaline conditions [Abstract in Russian]. In I.A. Aleshkovsky, A.V. Andriyanov, E.A. Antipov & E.I. Zimakova (Eds.), *Materials of the International Youth Scientific Forum "LOMONOSOV-2021"*. MAKs Press, Moscow. https://lomonosov-msu.ru/archive/Lomonosov_2021/data/section_2_21890.htm
2. Tarasova O.S., Selivanova E.K., Borzykh A.A., Kiryukhina O.O., Shvetsova A.A., **Lazarenko V.S.**, Makukha Yu.A., Bogotskoy K.A., Ivanova A.D., Voronina Ya.A., Kuzmin V.S. (2021). Nitric oxide deficiency during prenatal development is accompanied by a change in the nervous regulation of the heart in postnatal ontogenesis [Abstract in Russian]. In R.I. Sepiashvili & M.A. Ostrovsky (Eds.), *VII Russian Congress on Physiology, Biochemistry and Molecular Biology, X Russian Symposium "Proteins and Peptides", VII Russian Biochemical Congress, VII CIS Congress on Physiology (Proceedings. Sochi-Dagomys, October 3-8, 2021)*, 1: 90-91. Pero Publishing House, Moscow.

3. Shvetsova A.A., Selivanova E.K., Gaynullina D.K., Kiryukhina O.O., Borzykh A.A., **Lazarenko V.S.**, Los Arcos Uvarova S., Schubert R., Tarasova O.S. (2020). An increase in the anticontractile effect of potassium channels in the arteries of 2-week-old offspring of female rats with experimental preeclampsia [Abstract in Russian]. Proceedings of VII All-Russian School-Conference with International Participation on Physiology and Pathology of Blood Circulation, pp. 154-155. RA ILF, Moscow.

4. **Lazarenko V.S.**, Sebentsova E. A. (2019). Influence of DMSO on the physical and motor development in C57BL/6 mice [Abstract in Russian]. In I.A. Aleshkovsky, A.V. Andriyanov & E.A. Antipov (Eds.), *Materials of the International Youth Scientific Forum "LOMONOSOV-2019"*. MAK Press, Moscow. https://lomonosov-msu.ru/archive/Lomonosov_2019/data/section_2_16089.htm

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 LABMGUMU

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

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

REFERENCES

1. Arie Kim, PhD, Assistant Research Scientist at Columbia University Irving Medical Center – a supervisor of the first master's internship at Donders Institute, arie.kim@nyspi.columbia.edu

2. Anastasia Shvetsova, PhD, Leading Research Scientist at the Department of Human and Animal Physiology at Lomonosov Moscow State University, - a supervisor of the bachelor's internship and the bachelor's thesis, anastasiashvetsova92@gmail.com

Extra: 3. Geert Frederix, PhD, Associate professor Health Technology Assessment at UMC Utrecht and Applied Professor Digital Transformation in healthcare at HAN University of Applied Sciences – a supervisor of the master's thesis, geert.frederix@han.nl

MASTER'S DIPLOMA TRANSCRIPTS

4.3 Programme details and the individual grades obtained

The following index lists the courses of the programme the student has attended, the number of European Credits attributed to each course and the final mark the student has acquired for the course.

M Medical Biology

Compulsory Track Courses:

Molecular and Cellular Neurobiology
Molecular Therapy
Trends in Stem Cell Biology

EC

Grade

6.0
6.0
3.0

6.0
7.0
6.0

Philosophy Courses:

Upgrading the Human?

3.0

8.0

Master Portfolio:

Master Portfolio Biosciences

0.0

P

Free Electives:

Food and Brain Health

3.0

7.5

Review Article:

Review Article

6.0

8.0

Internship:

Master (Medical) Biology SMI/SIS internship (Donders
Centre for Cognition, Netherlands)

33.0

8.5

Extracurricular Courses:

Course on Laboratory Animal Sciences

3.0

8.5

Master's Specialisation Science, Management and Innovation

EC

Grade

Compulsory Courses SMI:

Sustainable Innovation Management
Reaching the Sustainable Development Goals Reaching
the Sustainable Development Goals
Methods in Societal Research: Science, Management &
Innovation

6.0
6.0
3.0

7.0
7.5
8.5

Themes SMI:

The Future of Health
How Health Systems Work
Advanced Endocrinology

6.0
6.0
3.0

7.5
6.0
6.0

SMI Final Research Project:

Science, Management and Innovation Research Project
(HAN University of Applied Sciences, Netherlands)

30.0

8.0

Total EC:

123.0



BACHELOR'S DIPLOMA TRANSCRIPTS

Лазаренко Варвара Сергеевна / Lazarenko Varvara

4.3. Сведения о результатах освоения образовательной программы / Programme details and results gained

N	Наименование дисциплин (модулей) программы / Title of programme courses (modules)	Зачетные единицы / Общее количество часов (в том числе аудиторных) / Credits / Academic hours (including in-class hours)	Оценка / Mark
1	Английский язык / English language	8 / 288 (208)	отлично / excellent
2	Экономика / Economics	4 / 144 (60)	зачтено / passed
3	Философия / Philosophy	2 / 72 (24)	зачтено / passed
4	История / History		
4	Отечественная история / History of Russia	2 / 72 (24)	зачтено / passed
5	История и методология биологии / History and methodology of biology	2 / 72 (28)	зачтено / passed
	Русский язык и культура речи / Russian language and standard of speech		
6	Русский язык / Russian language	2 / 72 (36)	зачтено / passed
7	Риторика / Rhetoric	2 / 72 (36)	зачтено / passed
8	Физическая культура / Physical training	2 / 72 (72)	зачтено / passed
9	Элективные курсы по физической культуре / Elective courses in physical training		зачтено / passed
10	Безопасность жизнедеятельности / Life safety	2 / 72 (36)	зачтено / passed
11	Биоэтика / Bioethics	4 / 144 (36)	зачтено / passed
	Современное естествознание / Modern natural sciences		
12	Геология / Geology	2 / 72 (36)	зачтено / passed
13	География / Geography	2 / 72 (36)	зачтено / passed
14	Почвоведение / Soil science	2 / 72 (24)	зачтено / passed
15	Проблемы современной биологии / Current challenges in biology	2 / 72 (36)	зачтено / passed
16	Клеточная биология / Cell biology	3 / 108 (90)	отлично / excellent
17	Охрана природы / Environment protection	2 / 72 (24)	зачтено / passed
	Математика / Mathematics		
18	Высшая математика / Higher mathematics	6 / 216 (198)	отлично / excellent
19	Математические методы в биологии / Mathematical methods in biology	3 / 108 (72)	хорошо / good
20	Физика / Physics	5 / 180 (150)	отлично / excellent
	Химия / Chemistry		
21	Общая и неорганическая химия / General and inorganic chemistry	4 / 144 (108)	отлично / excellent
22	Органическая химия / Organic chemistry	5 / 180 (156)	отлично / excellent
23	Аналитическая химия / Analytical chemistry	3 / 108 (72)	отлично / excellent
24	Физическая химия / Physical chemistry	3 / 108 (72)	хорошо / good
25	Коллоидная химия / Colloid chemistry	2 / 72 (24)	зачтено / passed
	Информатика / Computer science		
26	Биоинформатика / Bioinformatics	3 / 108 (60)	зачтено / passed
27	Математическое моделирование в биологии / Mathematical modelling in biology	2 / 72 (54)	отлично / excellent
	Зоология / Zoology		
28	Зоология беспозвоночных / Invertebrate zoology	5 / 180 (126)	хорошо / good
29	Зоология позвоночных / Zoology of vertebrates	4 / 144 (120)	хорошо / good
	Ботаника / Botany		
30	Микология и альгология / Mycology and phycology	4 / 144 (108)	отлично / excellent
31	Высшие растения / Higher plants	5 / 180 (120)	отлично / excellent
32	Микробиология с основами биотехнологии микроорганизмов / Microbiology and fundamentals of microbial biotechnology	5 / 180 (120)	отлично / excellent
33	Вирусология / Virology	2 / 72 (28)	отлично / excellent
34	Методы современной биологии / Modern methods in biology	2 / 72 (36)	зачтено / passed
35	Гистология / Histology	2 / 72 (60)	хорошо / good
36	Эмбриология / Embryology	3 / 108 (72)	отлично / excellent
37	Физиология человека и животных / Human and animal physiology	3 / 108 (90)	отлично / excellent
38	Физиология высшей нервной деятельности / Physiology of higher nervous activity	2 / 72 (28)	зачтено / passed

N	Наименование дисциплин (модулей) программы / Title of programme courses (modules)	Зачетные единицы / Общее количество часов (в том числе аудиторных) / Credits / Academic hours (including in-class hours)	Оценка / Mark
39	Физиология растений / Plant physiology	3 / 108 (90)	отлично / excellent
40	Основы молекулярной биологии / Foundations of molecular biology	2 / 72 (28)	отлично / excellent
41	Биофизика / Biophysics	5 / 180 (120)	хорошо / good
42	Генетика / Genetics	4 / 144 (120)	отлично / excellent
43	Иммунология / Immunology	3 / 108 (42)	хорошо / good
44	Теории эволюции / Evolution theories	3 / 108 (70)	отлично / excellent
45	Экология / Ecology	2 / 72 (36)	отлично / excellent
46	Антропология с основами анатомии / Anthropology and fundamentals of anatomy	2 / 72 (60)	зачтено / passed
47	Биохимия / Biochemistry	5 / 180 (126)	отлично / excellent
48	Практическая биология / Practical biology	8 / 288 (168)	зачтено / passed
49	Клиническая психология обыденной жизни / Clinical psychology of everyday life	1 / 36 (26)	зачтено / passed
50	Основы астрономии / The basics of astronomy	1 / 36 (30)	зачтено / passed
51	Обязательные дисциплины профиля / General obligatory courses Морфология центральной нервной системы / Morphology of central nervous system	2 / 72 (54)	отлично / excellent
52	Физиология висцеральных систем / Physiology of visceral systems and peptides	3 / 108 (96)	зачтено / passed
53	Патофизиология / Pathophysiology	2 / 72 (36)	зачтено / passed
54	Электрофизиология возбудимых клеток / Electrophysiology of excited cells	2 / 72 (56)	отлично / excellent
55	Введение в эндокринологию / Introduction to endocrinology	2 / 72 (56)	зачтено / passed
56	Физиология кровообращения / Physiology of circulation	2 / 72 (24)	отлично / excellent
57	Введение в общую физиологию / Introduction to general physiology	2 / 72 (54)	зачтено / passed
58	Частная физиология / Some chapters of physiology	2 / 72 (60)	отлично / excellent
59	Избранные разделы биохимии / Selected chapters of biochemistry	3 / 108 (84)	отлично / excellent
60	Физиология выделительной системы / Physiology of excretory system	2 / 72 (24)	отлично / excellent
61	Дисциплины профиля по выбору / Optional profile subjects Молекулярная электрофизиология сердца / Molecular electrophysiology of the heart	2 / 72 (60)	отлично / excellent
62	Практическая физиология висцеральных систем / Practical physiology of visceral systems	3 / 108 (72)	зачтено / passed
63	Практическая физиология центральной нервной системы / Practical physiology of the central nervous system	3 / 108 (84)	зачтено / passed
64	Сравнительная физиология центральной нервной системы и поведения / Comparative physiology of the central nervous system and behavior	1 / 36 (28)	зачтено / passed
65	Физиология центральной нервной системы / Physiology of central nervous system	1 / 36 (28)	зачтено / passed
66	Частная физиология дыхания / Some chapters of physiology of breathing	2 / 72 (48)	зачтено / passed
	Курсовые работы / Course papers: не предусмотрены / not required		
	Практики / Practical training:		
67	Учебная практика после 1-го курса / Summer practice after 1st year	12 / 432 (0)	отлично / excellent
68	Учебная практика после 2-го курса / Summer practice after 2nd year	12 / 432 (0)	отлично / excellent
69	Учебно-производственная практика после 3-го курса / Internship after 3rd year	12 / 432 (0)	отлично / excellent

N	Наименование дисциплин (модулей) программы / Title of programme courses (modules)	Зачетные единицы / Общее количество часов (в том числе аудиторных) / Credits / Academic hours (including in-class hours)	Оценка / Mark
70	Преддипломная / Pre-graduation	6 / 216 (0)	зачтено / passed
71	Итоговые государственные экзамены / Final State Examinations: Государственный экзамен по профилю "Физиология человека и животных" / State examination in Human and Animal Physiology	3 / 108 (0)	хорошо / good
72	Выполнение и защита итоговой квалификационной работы / Accomplishment and defence of final qualifying paper: Тема: "Вклад TASK-1 каналов в регуляцию тонуса артерий разных органов у крыс" / Subject: "Role of TASK-1 channels in arterial tone regulation in different organs in rats" ИТОГО / TOTAL	6 / 216 (0) 240 / 8640(4460)	отлично / excellent
1	Изучено студентом сверх учебного плана / Extracurricular courses: Частная физиология пищеварения / Some chapters of gastrointestinal physiology	2 / 72 (36)	зачтено / passed
2	Частная физиология сердечно-сосудистой системы / Some chapters of physiology of the cardiovascular system КОНЕЦ ТАБЛИЦЫ / END OF TABLE	4 / 144 (96)	зачтено / passed

N	Наименование дисциплин (модулей) программы / Title of programme courses (modules)	Зачетные единицы / Общее количество часов (в том числе аудиторных) / Credits / Academic hours (including in-class hours)	Оценка / Mark

4.4. Система оценок в Московском государственном университете имени М.В.Ломоносова / Grading scheme at Lomonosov Moscow State University
 Применяется следующая система оценок: «отлично», «хорошо», «удовлетворительно», «неудовлетворительно», а также «зачтено», «не зачтено»
 The following grading scheme is adopted: "excellent" is the highest possible mark, "good" is the second passing mark, "satisfactory" is the lowest passing mark, "unsatisfactory" is a failure; for pass-or-fail examination "passed" or "failed" are the possible marks

4.5. Дополнительные сведения о дипломе / Overall classification of the diploma _____

ПОДПИСИ И ПЕЧАТИ / CERTIFICATION OF THE SUPPLEMENT

/Ректор / Rector

Н.В.Гусев / N.V.Gusev

Декан / Dean

М.П.Кирпичников / M.P.Kirpichnikov

Секретарь / Secretary

Е.Е.Баскакова / E.E.Baskakova

ПРИЛОЖЕНИЕ
К ДИПЛОМУ

AAM 1706415

DIPLOMA
SUPPLEMENT

05z-0224-21w

Регистрационный номер /
Registration number

30 июня 2020 года / 30 June 2020

Дата выдачи / Issued on

МА 3717926