

**Форма
надання інформації
про кваліфікацію, наукові досягнення і досвід роботи (Curriculum Vitae)
науково-педагогічних працівників
Київського національного університету імені Тараса Шевченка**



Curriculum Vitae

Dovhyi R.S.

PERSONAL INFORMATION



Dovhyi Roman Serhiiyovych

03127, Akademika Hlushkova Avenue, 2, Educational and Scientific Center "Institute of Biology and Medicine" of Taras Shevchenko National University of Kyiv, the city of Kyiv, Ukraine

(098) 659-30-77

roman_dovhyi@knu.ua

https://www.researchgate.net/profile/Roman_Dovhyi

<https://scholar.google.com/citations?hl=uk&user=2m80N UAAAAJ>

Scopus Author ID: 57194153252

<https://orcid.org/0000-0003-1189-4479>

Gender M | Date of birth 04.01.1991 | Citizenship Ukraine

Scientific degree (degree, specialization)	PhD, 03.00.09 – immunology
Academic rank	-
Position	Assistant Professor
Department	Microbiology and Immunology
Faculty / institute	ESC "Institute of Biology and Medicine"

Educational Disciplines / subjects, which were taught by me:

In the current year	<ol style="list-style-type: none"> 1. Microbiology, Bachelor, 2nd year, practical and lab. work. 2. Educational practice in microbiology, Bachelor, 2nd year, practice. 3. Local immunity, Bachelor, 4th year, lectures and lab. work. 4. Mechanisms of immune evasion by microorganisms, Bachelor, 4th year, lab. work.
In the previous periods	<ol style="list-style-type: none"> 1. Immunology, Bachelor, 3rd course, lab. work. 2. Immune system and allergic reactions: from norm to pathology, Master, 3rd course, practical work. 3. Microbiology, virology and immunology, 2nd and 3rd courses, Master, lab. work. 4. Clinical microbiology, virology and immunology, Master, 3rd and 4th courses, practical work. 5. Microbiology with microbiological diagnostics, Bachelor, 2nd course, lab. work. 6. Clinical microbiology, Bachelor, 4th course, practical work.

EXPERIENCE OF SCIENTIFIC AND SCIENTIFIC-EDUCATIONAL WORK

Period (starting from the last one)	Stage (description)
From 09.2024 until now	<p>Position Assistant at the Department of Microbiology and Immunology</p> <p>Name of the organization ESC "Institute of Biology and Medicine," address (Kyiv, Hlushkova Ave., 2, http://biology.univ.kiev.ua/)</p> <p>Sphere of activity or sector Education</p>
From 01.2024 until 08.2024	<p>Position Assistant at the Department of Technologies of Medical Diagnostics and Treatment</p> <p>Name of the organization ESC "Institute of Biology and Medicine," address (Kyiv, Hlushkova Ave., 2, http://biology.univ.kiev.ua/)</p> <p>Sphere of activity or sector Education</p>
(From 10.2019 until 2023)	<p>Position Assistant at the Department of Clinical Medicine</p> <p>Name of the organization ESC "Institute of Biology and Medicine," address (Kyiv, Hlushkova Ave., 2, http://biology.univ.kiev.ua/)</p> <p>Sphere of activity or sector Education</p>
(From 09.2018 until 09.2019)	<p>Position Assistant at the Department of Fundamental Medicine</p> <p>Name of the organization ESC "Institute of Biology and Medicine," address (Kyiv, Hlushkova Ave., 2, http://biology.univ.kiev.ua/)</p> <p>Main activity and functional responsibilities</p> <p>Sphere of activity or sector Education</p>
(From 05.2015 till 07.2018)	<p>Position Junior Scientist</p> <p>Name of the organization "D.F.Chebotarev State Institute of Gerontology NAMS of Ukraine" (Kyiv, Vyshgorodska st., 67, http://geront.kiev.ua/)</p> <p>Main activity and functional responsibilities</p> <p>Sphere of activity or sector Science</p>

STUDYING AND INTERNSHIP

Period (starting from the last one)	Stage (description)
(From 2014 till 2017)	Candidate of Biological Sciences / Doctor of Philosophy (PhD) in Biology in the specialty 03.00.09 – Immunology "Functional polarization of phagocytes and its correction in animals of different age groups"

PERSONAL SKILLS

Name	Level (description)
Native language	Ukrainian
Foreign languages	English, B2
Communicative competence	Good communication skills
Computer skills	Experienced user. Good at using MS Office (Excel, Power Point, Word), Good at using various browsers (Opera, Firefox, Chrome, Internet Explorer). Operating systems Windows XP/7/10/11.
Professional skills (not mentioned above)	<p>Molecular biology techniques: DNA, RNA extraction; PCR.</p> <ul style="list-style-type: none"> • Cell culture: multipotent mesenchymal stromal cells, macrophages. • Immunological techniques: flow cytometry, study of the phagocytic activity and ROS production by macrophages and neutrophils, analysis of the subpopulation composition of lymphocytes and macrophages in the secondary lymphoid organs, expression of the phenotypic markers by macrophages. • Microbiological techniques: solid and liquid bacterial culturing, gram-staining. • Spectrophotometry. • Light microscopy.
Areas of professional interest	Immunology, microbiology

ADDITIONAL INFORMATION

Name	(names of publications, presentations, projects, conferences, seminars, names of awards and prizes, membership in academies, professional and scientific associations, etc.)
Publications	<ol style="list-style-type: none"> 1. Dovgij R.S., Shitikov D.V., Pishel I.N., Opeida E.V., Skivka L.M. Functional state and metabolic polarization of splenic macrophages of old immunized mice. <i>Проблеми старення і довголіття</i>. 2015; 24 (2): 144-52. 2. Dovhyi R., Pishel I., Butenko G., Skivka L. Induction of neonatal tolerance to GFP-labeled karyocytes in C57/B6 mice. <i>Journal of Immunological Methods</i>. 2017; 447: 92-4. 3. Dovhyi R.S., Nikolsky I.S., Skivka L.M. The effect of thymic mesenchymal stromal cells on arginase activity and nitric oxide produced by macrophages of young and aged mice. <i>The Ukrainian Biochemical Journal</i>. 2017; 3: 25-30. 4. Dovhyi R.S., Nikolsky I.S., Skivka L.M. Age-related changes of arginase activity and nitric oxide level in phagocytes and their modulation by thymic mesenchymal stromal cells. <i>Біологічні студії / Studia Biologica</i>. 2017; 11 (2): 13-22. 5. Dovhyi R.S., Skivka L.M. Functional state of alveolar macrophages and bone marrow neutrophils from mice of different ages. <i>Вісник проблем біології та медицини</i>. 2017; 4. 1 (139): 79-84. 6. Gahramanova M., Dovhyi R., Rudyk M., Molozhava O., Svyatetska V., Skivka L. Phytochemical screening of polyherbal composition based on <i>Portulaca oleracea</i> and its effect on macrophage oxidative metabolism. <i>Biotechnologia Acta</i>. 2019; 12 (2): 63-70. 7. Gahramanova M., Ostapchuk A., Molozhava O., Svyatetska V., Rudyk M., Hurmach Y., Dovhyi R., Skivka L. Fatty acid composition of purslane seed water extract and its effect on metabolic profile of murine peritoneal macrophages. <i>Biotechnologia Acta</i>. 2020; 13 (4): 39-48. 8. Dovhyi R., Pasichnichenko M., Marynchenko A., Oliynyk Zh., Nefodova A., Rudyk M., Skivka L. Circadian variation in functional polarization of murine peritoneal macrophages. <i>Biotechnologia Acta</i>. 2022; 15 (4): 8-10. 9. Nefodova A., Rudyk M., Pasichnichenko M., Dovhyi R., Dovbynychuk T., Tolstanova G., Skivka L. Pro inflammatory effects of placebo neurosurgery in rats: age related features. <i>General Surgery (Ukraine)</i>. 2022; 2: 56-63. 10. Nefodova A., Rudyk M., Dovhyi R., Dovbynychuk T., Dzubenko N., Skivka L. Microglia phagocytic activity in rats with different models of Alzheimer's disease. <i>Biotechnologia acta</i>. 2023; 16 (1): 57-66. 11. R. Dovhyi, M. Rudyk, Ye. Hurmach, T. Serhiichuk, Yu. Yumyna, A. Dvukhriadkina, K. Ostrovska, D. Pjanova, L. Skivka. Polarized activation of human peripheral blood phagocytes by bacteriophage-derived double-stranded RNA (Larifan) in vitro. <i>Biotechnologia acta</i>. 2023; 16 (6): 69-75. 12. Nefodova A., Rudyk M., Dovhyi R., Skivka L. Composition of peripheral blood leukocyte subsets in rats with different models of Alzheimer's disease. <i>Вісник Київського національного університету імені Тараса Шевченка</i>. 2023; 94 (3): 28-34. 13. Nefodova A., Rudyk M., Dovhyi R., Skivka L. Organometric indicators of lymphoid organs in rats with different models of Alzheimer's disease. <i>Вісник Київського національного університету імені Тараса Шевченка</i>. 2023; 95 (4): 32-38. 14. Nefodova A, Rudyk M, Dovhyi R, Dovbynychuk T, Dzubenko N, Tolstanova G, Skivka L. Systemic inflammation in Aβ1-40-induced Alzheimer's disease model: New translational opportunities. <i>Brain Research</i>. 2024; 1837: 148960. 15. Dovhyi R., Rudyk M., Serhiichuk T., Yumyna Yu., Dvukhriadkina A., Ostrovska K., Pjanova D., Skivka L. Bacteriophage-derived double-stranded RNA (larifan) exerts variable effects on human blood monocytes depending on age and sex of donors. <i>The Ukrainian Biochemical Journal</i>. 2024; 96 (5): 44-54. 16. Dovhyi R, Rudyk M, Serhiichuk T, Yumyna Y, Dvukhriadkina A, Ostrovska K, Senchylo N, Skivka L. Optimisation of bronchoalveolar lavage technique for isolating alveolar macrophages in mice. <i>General Surgery (Ukraine)</i>. 2024; (3): 43-47. 17. Dovhyi R., Rudyk M., Dvukhriadkina A., Ostrovska K., Pjanova D. Comparative assessment of the impact of interferonogenic preparation Larifan on monocytes from aged C57Bl/6 and BALB/c mice in vitro. <i>Вісник Київського національного університету імені Тараса Шевченка. Біологія</i>. 2024. № 98 (3): с.5-10. 18. Dovhyi, R., Dvukhriadkina, A., Ostrovska, K., Rudyk, M., Verhovcova, I., Vaivode, K., Pjanova, D., Ostapchenko, L., Skivka, L. Bacteriophage derived dsRNA induces polarized activation of alveolar macrophages from Balb/c and C57Bl/6 mice in vitro in sex- and age-dependent manner. <i>Cellular immunology</i>. 2025. 408: 104916. 19. Kononov, H.G., Dvukhriadkina, A.R., Ostrovska, K.S., Dovhyi, R.S., Rudyk, M., Pjanova, D., Rymar, M.V., Skivka, L.M. Effect of Larifan on monocytes of aged C57BL/6 and BALB/C mice <i>in vitro</i>.

	Biotechnologia Acta. 2025. 18 (3): 34–38.
Projects	Ukrainian-Latvian joint scientific project "Impact of bacteriophage-derived dsRNA on macrophages in context of COVID-19 pandemic" (№ s/r 0123U103339, 2023-2024).
Conferences	<ol style="list-style-type: none"> 1. Dovgij R., Shitikov D., Pishel I., Opeida E., Skivka L. Functional state and metabolic polarization of splenic macrophages from old immunized mice // Міжнародна конференція молодих вчених 2015 "Today's challenges in molecular and cell biology", 21-25 вересня 2015 р.: матер. конфер. – Київ, 2015. – С. 170. 2. Dovgij R., Shitikov D., Pishel I., Opeida E., Usok V. Age-related changes in metabolic polarization of splenic macrophages obtained from immunized mice // II Міжнародна наукова конференція «Мікробіологія та імунологія – перспективи розвитку в XXI столітті», 14-15 квітня 2016 р.: матер. конфер. – Київ, 2016. – с. 126-127. 3. Довгий Р.С. Індукція неонатальної імунологічної толерантності до білка GFP у мишей лінії C57/B6 // XI Міжнародна конференція молодих учених, 26 листопада -2 грудня 2016 р.: матер. конфер. – Харків, 2016. – С. 83. 4. Dovgij R.S., Nikolsky I.S. Arginine metabolism of macrophages from mice of different age upon coculture with mesenchymal stromal cells // XIII Міжнародна наукова конференція студентів і аспірантів «Молодь і поступ біології», 25-27 квітня 2017 р.: матер. конфер. – Львів, 2017. – С. 209. 5. Довгий Р.С., Сківка Л.М. Роль мікрооточення вторинних лімфоїдних органів у формуванні активаційного статусу макрофагів при старінні (пілотне дослідження) // V міжнародна науково-практична конференція «Сучасні проблеми біології, екології та хімії», 26-28 квітня 2017 р.: матер. конфер. – Запоріжжя, 2017. – с. 156 – 157. 6. Dovhyi R., Nikolsky I., Skivka L. Anti-inflammatory activation of macrophages from mice of different age cocultured with thymic mesenchymal stromal cells // EMBO Conference: Advances in Stem Cells and Regenerative Medicine, 23 – 26 May 2017: матер. конфер. – Heidelberg, Germany, 2017. – P. 112. 7. Довгий Р.С., Сківка Л.М. Вікові особливості поляризації метаболізму аргініну кістковомозковими та перитонеальними макрофагами при співкультуванні з тимічними мезенхімними стовбуровими клітинами // Психофізіологічні та вісцеральні функції в нормі і патології: VIII Міжнар. Наук. Конф., присвячена 175-річчю кафедри фізіології та анатомії людини та тварин Київського національного університету імені Тараса Шевченка, 17-20 жовтня 2017 р.: матер. конфер. – Київ, 2017. – С. 126. 8. Dovgij R.S., Nikolsky I.S., Skivka L.M., Butenko G.M. Age-related changes in arginine metabolism of murine monocyte-derived and tissue-resident macrophages // Microbiology and Immunology – the Development Outlook in the 21st century. Abstracts book of the III International Scientific Conference, April 19-20, 2018, Kyiv. – Kyiv, 2018. – P. 131-132. 9. Олійник Ж., Рудик М., Довгий Р., Святецька В., Толстанова Г., Довбинчук Т., Майборода Я., Степаненко С., Ященко І., Гладун Д., Сківка Л. Розвиток ЛПС-індукованої хвороби Паркінсона у щурів асоційований з прозапальною активацією циркулюючих фагоцитів // XV Міжнародна наукова конференція студентів і аспірантів «Молодь і поступ біології», 9 – 11 квітня 2019 р., Львів, Україна. – с.123. 10. Олійник Ж.І., Гузик М.М., Толстанова Г.М., Довбинчук Т.В., Рудик М.П., Довгий Р.С., Святецька В.М., Сківка Л.М. Патологічні зміни астроглії за умов розвитку ЛПС-індукованої хвороби Паркінсона у щурів // Всеукраїнська наукова конференція з міжнародною участю «Актуальні питання біології та медицини», 30-31 травня 2019 р., Черкаси, Україна. – с.65. 11. Dovhyi R., Pasichnichenko M., Marynchenko A., Oliynyk Zh., Nefodova A., Rudyk M. Circadian variation in functional polarization of murine peritoneal macrophages // Microbiology and Immunology – the Development Outlook in the 21st century. Abstracts book of the IV International Scientific Conference, September 22-23, 2022, Kyiv. – Kyiv, 2022. – P. 12. 12. Dovhyi R., Rudyk M., Hurmach Ye., Serhiichuk T., Yumyna Yu., Pjanova D., Skivka L. Bacteriophage-derived double-stranded RNA (Larifan) causes specific metabolic shift in human monocytes in vitro. X International Conference „Bioresources and Viruses“, September 11-13, 2023, Kyiv, Ukraine. – P.66. 13. Dvukhriadkina A., Semchuk I., Ostrovska K., Liashenko K., Kharina A., Bondarenko O., Korniienko N., Dovhyi R. The impact of "Pyofag" on the phagocytic activity of alveolar macrophages in BALB/c mice <i>in vitro</i>: a pilot study // Microbiology and Immunology – the Development Outlook in the 21st century. Abstracts book of the IV International Scientific Conference, April 29-30, 2025, Kyiv. – P. 22. 14. Kononov H., Dvukhriadkina A., Ostrovska K., Dovhyi R., Pjanova D., Skivka L. Effect of Larifan on monocytes of aged C57Bl/6 and BALB/c mice <i>in vitro</i> // Microbiology and Immunology – the

	<p>Development Outlook in the 21st century. Abstracts book of the IV International Scientific Conference, April 29-30, 2025, Kyiv. – P. 25.</p> <p>15. Zhuravlova A., Dvukhriadkina A., Ostrovska K., Dovhyi R., Pjanova D., Skivka L. Sex-dependent effect of larifan on blood monocytes of C57Bl/6 mice in vitro // Microbiology and Immunology – the Development Outlook in the 21st century. Abstracts book of the IV International Scientific Conference, April 29-30, 2025, Kyiv. – P. 34.</p>
Seminars	<ol style="list-style-type: none"> 1. Challenges and perspectives of online learning in higher education institutions. June 23-24, 2022 2. Immune System and Cancer: The Battle for Life. April 29, 2024.
Certificates	<ol style="list-style-type: none"> 1. Training certificate on the use of the method of polymerase chain reaction (PCR) in real time (Real-Time PCR) for genomic research (03.19.2014). 2. Training certificate on the application of cell culture and cryopreservation methods (04.22.2014). 3. Certificate of attendance «9th EFIS-EJI South East European Immunology School (SEEIS 2017)» (2017). 4. «KNU TEACH WEEK» 1 ECTS 2021. 5. Certificate of participation for attending the master class "Fundamentals of DxFlex flow cytometer" (22.09.2022). 6. «KNU TEACH WEEK 4». 20.01.2023. 7. «Rules of life safety in conditions of war and emergency situations», 4 ECTS (2023). 8. Certificate of participation in the scientific and educational project 'World Cancer Day 2024.' R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, National Academy of Sciences of Ukraine (February 6, 2024). 9. Certificate of Participation. XIX International Summer School "Molecular Biology, Biotechnology and Biomedicine". 1.3 ECTS. July 8–19, 2024. 10. "Major Mental Disorders: Basic Concepts." Taras Shevchenko National University of Kyiv. Certificate: KU No. 02070944/001796-24. 0.5 ECTS, issued on November 27, 2024. 11. "Resilience: Stress-Resistance Skills in the Life of a Modern Person." Taras Shevchenko National University of Kyiv. Certificate: KU No. 02070944/002098-24. 0.5 ECTS, issued on December 12, 2024.