



PERSONAL



Yumyna Yulia

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Gender F | Year of Birth 1981 | Citizenship Ukraine

Academic degree (degree, speciality)	PhD, microbiology
Academic rank	Associate professor
Position	Associate professor
Department	Microbiology and Immunology
Faculty/Institute	ESC "Institute of Biology and Medicine"
Part-time position	

TEACHING:

In the current year	1 Sanitary microbiology, bachelors, 4th year, lectures 2. Technological foundations of microbiological production, bachelors, 4th year, lectures 3. Phytopathogenic bacteria, bachelors, 4th year, lectures 4. Biogeochemical activity of microorganisms, master's 1st year, lectures and laboratory classes 5. Modeling of cellular metabolism in vitro, master's 2nd year, lectures and laboratory classes
In previous years	1.Sanitary Microbiology, Bachelor, 4th year (2014 / 2015-2020/2021) 2. Microbiology, Bachelors, 2nd year (2011/2012 - 2020/2021) 3. Phytopathogenic bacteria, bachelors, 4th course (2015/2016 - 2020/2021) 4. Physical and Chemical Methods in Microbiology and Immunology, Bachelors, 3d year of study(2011/2012, 2015/2016, 2016/2017) 5. Biodegradation, Bachelors, 4th year (2012 / 2013-2013 / 2014) 6. Cell culture and cloning, masters 1st year (2012/2013 - 2014/2015) 7. Methodology of microbiological research, bachelors, 4th year (2015/2016) 8. Modeling of biofilms in vitro, masters, 2nd course, (2016/2017-2018-2019) 9. Laboratory Microbiology Workshop, Bachelors of the 3rd and the 4th year (2012/2013 - 2020/2021) 10.Biological bases of infectious processes, bachelors, 4th year. (2011/2012, 2012 / 2013,2013 / 2014)

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SCIENTIFIC AND TEACHING EXPERIENCE

Period	Description
From 2023 to the present	Aassociate professor ESC "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601, http://univ.kiev.ua) Field of activity: Education and scientific work, professor in charge of the 1st year student group, supervising professor, organization of scientific activities for students and scholars (biology school, biology tournament, student conference and contest)
From 2011 to 2023	Position assistant professor ESC "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601, http://univ.kiev.ua) Field of activity: Education and scientific work, professor in charge of the 1st year student group, supervising professor, organization of scientific activities for students and scholars (biology school, biology tournament, student conference and contest),
From 2007 to 2010	Position PhD student Institute of Microbiology and Virology NAS of Ukraine (03680, Kyiv, Zabolotny Akademika street, building. 154, http://www.imv.kiev.ua) Field of activity: Education and scientific work
From 2004 to 2011	Position engineer of the 2nd category ESC "Institute of Biology and Medicine", Taras Shevchenko National University of Kyiv (64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601, http://univ.kiev.ua) Preparing and support of laboratory works Field of activity: Education and scientific work

EDUCATION AND TRAINING

Period	Description
2024	Internship in the Department of Phytopathogenic Bacteria of the D. K. Zabolotny Institute of Microbiology and Virology of the NAS of Ukraine from October 7, 2024 to December 20, 2024 (order No. 744-32 dated September 18, 2024) 2.5 ECTS credits (certificate No. 105-663/01 dated December 20, 2024)
2023	TRAINING COURSE TECH SUMMER BOOTCAMP FOR TEACHERS, July 26, 2023 – September 01, 2023 10 academic hours (0.3 ECTS credit), certificate series SX No. 14600/2023
2022	"Google Digital Tools for Education". from September 05-18, 2022, 30 academic hours (1 ECTS credit), certificate No. GDTfE-02-00870 LLC "DIGITAL DEVELOPMENT ACADEMY" KNU Teach Week 3

2021	International internship "FUNDRAISING AND ORGANIZATION OF PROJECT ACTIVITIES IN EDUCATIONAL ESTABLISHMENTS: EUROPEAN EXPERIENCE", Krakow, Poland, diploma of the Central European Academy Studies and Certification (CEASC) Foundation
2020	Webinar "Organization of distance learning using Google Classroom"
2018	Internship: Institute of Microbiology and Virology named after D.K. Zabolotny, NASU (Ukraine)
From 2005 to 2009	Institute of Microbiology and Virology NAS of Ukraine (03680, Kyiv, Zabolotny Akademika street, building. 154, http://www.imv.kiev.ua)
	Qualification: PhD, thesis title "Biofilm of heterotrophic bacteria as a factor of protective coating biodegradation of Poliken 980-25"
From 2002 to 2003	Taras Shevchenko Kyiv State University, Kyiv, Ukraine
	Qualification specialist, diploma title "Production and application of test systems for diagnosis of horses' flu"
From 1998 to 2002	Taras Shevchenko Kyiv State University, Kyiv, Ukraine
	Qualification: bachelor of biology (virology), thesis title "Getting test systems for horses' flu" diagnosing

PERSONAL SKILLS AND COMPETENCES

Item	Level
Language Proficiency	
Ukrainian	Native language
English	B1/B2
Polish	A1/A2
Social/Communication Skills and Competences	Communication skills were acquired during the work at the Department of Microbiology and Immunology of ESC "Institute of Biology and Medicine" of Taras Shevchenko National University of Kyiv
Organizational/Manager Skills and Competences	Organization of international scientific conferences, manage a research work of students at the department, in charge of the 1 st year student group.
Computer Skills and Competences	Experienced user. Good knowledge of MS Windows; good knowledge of web browsers (Opera, Mozilla Firefox, Google Chrome, Internet Explorer) and e-mail applications (Outlook Express, Bat); good command of MS Office Tools (Excel, Power Point, Word).
Methodological and Technical Expertise	Accomplished researcher in microbiology
Range of Professional Interests	Biology: microbiology, ecological microbiology, Metabolic activity of heterotrophic bacteria in a biofilm

ADDITIONAL INFORMATION

Item	(titles of publications, presentations, projects, conferences, seminars, awards and prizes, membership in academies, professional and scientific associations, etc)
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Publications

- 1 Yumyna Y. Features of bacteria-destructors biofilm architectonics, formed on the surface of the protective coating / Yumyna Y., Kozlova I., Kopteyeva Zh. // Visnyk KNU a.n. Taras Shevchenko - 2008. - 52-53 - P.83-84
2. Yumyna Y.M Biodegradation of protective coating "Polyken 980-25" / Yumyna Y.M. , Kopteyeva Zh.P., Laskovenko NN, Bubnov A.C., Ostapchuk S.M. / Polymer Journ. - 2009. - T. 31, No. 4, - p. 349 – 352
3. Yumyna Y..M. Dynamics of microbial populations on a protective coating of biofilm / Yumyna Y.M., Kopteyeva Zh.P., Kozlova I.P. // Microbiologist. Magazine. -2009 - T.71, № 3, - P. 37-41
4. Zanina V.V. Monosaccharide composition of exopolymer complex of bacteria-destructors protective coatings / Zanina VV, Kopteva Zh.P., Yumyna Yu.M., Ostapchuk AN // Microbiologist. magazine. -2009. - T.71, № 4, - P.21-27.
5. Kopteva Zh.P., Zanina V.V., Boretskaya M.A., Yumyna Y.M., Kopteva A.E., Kozlova I.A. Monosaccharide and fatty acid composition of the exopolymer complex of bacteria-destructors protective coating of the gas pipeline // Microbiologist. magazine. -2012.- T.74, № 2, - P.22-28.
6. Boretskaya M., Radchenko O., Stepura L., Yumyna Y. Influence of sodium dodecyl sulfate on the morphology of STENOTROPHOMONAS MALTOPHILIA cells // Bulletin of the Kyiv National University. Taras Shevchenko - 2013.- No. 63 - P.24-26
7. P.P. Zelyonaya, Y.M. Yumyna, I.V Dombrovsky, I.M Malinovskaya, VV Shepelevich, LM Gritsenko, I.V Yavorskaya, V.K.Pozur, L.M. Slip Influence of essential oils Aniba Rosaedora, Laurus nobilis, Syzygium aromaticum, Mentha piperita u Lavandula andustifolia on growth of micromycetes // Microbiology and biotechnology. No. 1 (25), 2014, p. 27-34
8. O.S.Radchenko, L.G. Stepura, Y.M. Yumyna, MA Boretskaya, P.P. Zelyonaya Changes of some biological properties of Stenotrophomonas maltophilia under the action of sodium dodecyl sulfate // Microbiology and biotechnology. No. 1 (25), 2014, p. 53-62.
9. O.V. Matselyukh, N.A. Nedalkova, L.D. Varbanets, N.O. Andreeva, V.V. Shepelevich, P.P. Zelena, Y.M. Yumyna. Ability of microorganisms of various ecological niches to hydrolysis of insoluble proteins // Microbiology Journal, 2015, Vol. 77, No. 3, p. 16-22.
10. Detection of Proteus mirabilis and E. coli in tomatoes and vegetable peppers and isolation of their bacteriophages / A.V. Harina, Zaika S.A., Yumyna Y.M., Zelena P.P. // Scientific reports of National University of Life and Environmental Sciences of Ukraine. - 2015. - No. 53.
11. L.D. Varbanets, O.V. Matselyukh, O.V. Gudzenko, N.A. Nedalkova, P.P. Zelena, Y.V. Yumyna, L.G. Stepura, V.V. Shepelevich, S.I. Voychuk. Screening of producers of α -L-rhamnosidases and peptidases among representatives of actinobacteria and bacilli. Microbiological Journal -T. 78, №3 - 2016. - pp. 26-35.
12. N.A. Nedalkova, L.D. Varbanets VV Shepelevich, P.P. Zelena, Y.M.Yumyna, K.G. Garkava, L.O. Troshina. Protease STREPTOMYCES SP. 12: purification and properties. // Microbiological journal -T. 79, No. 2 - 2017. - P. 33-47.
13. P.P. Zelena, GV Gladka, VV Shepelevich, Y.M. Yumyna, N.V. Senchilo, L.M. Skivka. Sensitivity to ultraviolet radiation of negative epiphytic bacteria from the Chernobyl // Microbiology and biotechnology. No. 1 (37), 2017, p. 94-104
14. Фізико- хімічні методи в мікробіологічних та імунологічних дослідженнях / навч. посіб./ П.П. Зелена, О.С. Моложава, М.П. Рудик, Л.М. Сквіва, Ю.М. Юмина. – К.:Видавець Кравченко Я.О., 2019. - 167 с.
15. Методичні рекомендації до лабораторного практикуму "Санітарна мікробіологія" / Упорядк. Т.М. Сергійчук, Ю.М.Юмина. – К.:Видавець Кравченко Я.О., 2019. - 72 с.
14. Nataliia Strutynska, Oksana Livitska, Svitlana Prylutska, Yuliia Yumyna, Pavlina Zelena, Larysa Skivka, Anna Malysenko, Lyudmyla Vovchenko, Viktor Strelchuk, Yuriy Prylutskyi, Nikolai Slobodyanik, Uwe Ritter. New nanostructured apatite-type (Na^+ , Zn^{2+} , CO_3^{2-})-doped calcium phosphates: Preparation, mechanical properties and antibacterial activity. Journal of Molecular Structure 1222 (2020) 128932
15. **Мікробіологія**. Том 1: підручник / Сергійчук М.Г., Сквіва Л.М., Сергійчук Т.М., Юмина Ю.М. та ін. – К.: ФОП Маслаков, 2020. – 500с.
16. Alina Pastoshchuk, Yuliia Yumyna, Pavlina Zelena, Larysa Skivka. SURVEY OF PLANT GROWTH PROMOTING AND ANTAGONISTIC TRAITS IN WINTER WHEAT GRAIN ENDOPHYTIC BACTERIA. *EUREKA: Life Sciences*. 2021;4:66-72
17. Pastoshchuk, A., Yumyna, Y., Zelena, P., Nudha, V., Yanovska, V., Kovalenko, M., Taran, N., Patyka, V., & Skivka, L. (2021). Beneficial traits of grain-residing endophytic communities in wheat with different sensitivity to *Pseudomonas syringae*. *Regulatory Mechanisms in Biosystems*, 12(3), 498–505.
18. O. E. Smirnov, V. Ye. Kalynovskiy, Yu. M. Yumyna, P. P. Zelena M. A. Skoryk, V. M. Dzhagan, N. Yu. Taran (2021) Green synthesis of silver nanoparticles using aqueous extract of hot chili pepper fruits and its antimicrobial activity against *Pseudomonas aeruginosa*. *Ukr. Biochem. J.* Volume 93, Issue 5, Sep-Oct, pp. 102-110
19. Пастощук А., Шустик Д., Зелена П., Юмина Ю., Сквіва Л. АНТИМІКРОБНА АКТИВНІСТЬ ЕКЗОМЕТАБОЛІТІВ *PAENIBACILLUS POLYMYXA*, ВИДІЛЕНИХ З ЕНДОФІТНОГО УТРУПОВАННЯ ЗЕРНА ПШЕНИЦІ ОЗИМОЇ // Біологія, біотехнологія, екологія No 1 (95), 2022 Наукові доповіді НУБіП України ISSN 2223-1609
20. Oleksandr Smirnov, Vitalii Kalynovskiy, Yuliia Yumyna, Pavlina Zelena, Tetiana Levenets, Mariia Kovalenko, Volodymyr Dzhagan, Mykola Skoryk Potency of phytosynthesized silver nanoparticles from *Lathraea squamaria* as anticandidal agent and wheat seeds germination enhancer *Biologia* (May 2022) <https://doi.org/10.1007/s11756-022-01117-4>
21. Смірнов О.Є., Зелена П.П., Юмина Ю.М., Калиновський В.С., Таран Н.Ю., Швартау В.В. Біосинтез наночастинок срібла з антибактеріальним ефектом проти *Micrococcus luteus* — збудника нозокоміальних інфекцій. *Допов. Нац. акад. наук Укр.* 2022. No 5. С. 94—101. <https://doi.org/10.15407/dopovidi2022.05.094>
22. D. A. Shustyk, J. M. Yumyna, P. P. Zelena, J. V. Faiiuk GRAIN-RESIDING ENDOPHYTIC BACTERIUM *Paenibacillus polymyxa* P 6.3 POSSESSES GROWTH- PROMOTING ACTIVITY AND PROTECT WHEAT GRAIN FROM PATHOGENIC EFFECT OF PSEUDOMONAS SYRINGAE. *Biotechnologia Acta*, V. 15, No 4, 2022 P. 34-36. <https://doi.org/10.15407/biotech15.04.034>
23. Oleksandr Smirnov, Vitalii Kalynovskiy, Yuliia Yumyna, Pavlina Zelena, Tetiana Levenets, Mariia Kovalenko, Volodymyr Dzhagan, Mykola Skoryk Potency of phytosynthesized silver nanoparticles from *Lathraea squamaria* as anticandidal agent and wheat seeds germination enhancer *Biologia* (May 2022) <https://doi.org/10.1007/s11756-022-01117-4>
24. Смірнов О.Є., Зелена П.П., Юмина Ю.М., Калиновський В.С., Таран Н.Ю., Швартау В.В. Біосинтез наночастинок срібла з антибактеріальним ефектом проти *Micrococcus luteus* — збудника нозокоміальних інфекцій. *Допов. Нац. акад. наук Укр.* 2022. No 5. С. 94—101. <https://doi.org/10.15407/dopovidi2022.05.094>
25. D. A. Shustyk, J. M. Yumyna, P. P. Zelena, J. V. Faiiuk GRAIN-RESIDING ENDOPHYTIC BACTERIUM *Paenibacillus polymyxa* P 6.3 POSSESSES GROWTH- PROMOTING ACTIVITY AND PROTECT WHEAT GRAIN FROM PATHOGENIC EFFECT OF PSEUDOMONAS SYRINGAE. *Biotechnologia Acta*, V. 15, No 4, 2022 P. 34-36. <https://doi.org/10.15407/biotech15.04.034>
26. Oleksandr Smirnov, Vitalii Kalynovskiy, Pavlina Zelena, Yuliia Yumyna Volodymyr Dzhagan, Mariia Kovalenko, Yevheniia Konotop, Nataliya Taran. Bactericidal activity of Ag nanoparticles biosynthesized from *Capsicum annuum* pericarp against phytopathogenic *Clavibacter michiganensis*. *The Science of Nature* (2023) 110:15 <https://doi.org/10.1007/s00114-023-01844-x>
27. M.Yu. Korbush, T.M. Serhiichuk, Y.M. Yumyna, T.O. Borisova, G.M. Tolstanova. The Effect of Particulate Matter of Natural and Anthropogenic Origin on Growth Indicators and Sensitivity. // *Microbiological Journal*. 2023. (4). P. 34-45. <https://doi.org/10.15407/microbiolj85.04.034>
28. Kalynovskiy, V., Smirnov, O., Zelena, P., Yumyna, Y., Kovalenko, M., Dzhagan, V., Dzerzhynsky, M., & Taran, N. (2023). Biosynthesis of silver nanoparticles with antioxidant and bactericidal activities using *Capsicum annuum* fruit extract. *Regulatory Mechanisms in Biosystems*, 14(3), 393–398. doi:10.15421/022358
29. Грицева Наталія, Бабич Тетяна, Андрієнко Анна, Рубанік Ксенія, Юмина Юлія (2023) Оцінювання стійкості сортів картоплі, поширених на території України, до збудника м'якої гнилі та чорної ніжки. Том 95 №4, 2023: Вісник Київського національного університету імені Тараса Шевченка. Біологія, С. 39-44. DOI: 10.17721/1728.2748.2023.95.39-44
30. R. Dovhyi M. Rudyk Ye. Hurmach T. Serhiichuk Yu. Yumyna A. Dvukhriadikina K. Ostrovska D. Pjanova L. Skivka¹ POLARIZED ACTIVATION OF HUMAN PERIPHERAL BLOOD PHAGOCYTES BY BACTERIOPHAGE-DERIVED DOUBLE- STRANDED RNA (LARIFAN) *in vitro*. *BIOTECHNOLOGIA ACTA*, V. 16, No 6, 2023 P. 55-61 <https://doi.org/10.15407/biotech16.06.055>
31. R. Dovhyi, M. Rudyk, T. Serhiichuk, Yu. Yumyna A. Dvukhriadikina, K. Ostrovska, D. Pjanova, L. Skivka (2024) Bacteriophage-derived double-stranded rna (larifan) exerts variable effects on human blood monocytes depending on age and sex of donors *Ukr. Biochem. J.*, Vol. 96, N 5 P. 44-54 <https://doi.org/10.15407/ubj96.05.044>

Conferences	1. Yumyna Y.M., Kozlova I.P., Koptyeva Zh.P., Bubnova AS, Laskovenko N.M. Biodegradation of the protective coating under the influence of the biofilm which is formed on its surface: materials of the XI Congress of the Society of Ukrainian Microbiologists (Ukraine, Uzhhorod, May 2009) 2. Yumyna Y., Kozlova I., Koptyeva Zh. Peculiarities of the architectonics of biofilm, formed on the surface of the glass by bacteria - destructors of protective coatings. // Materials of the XI Ukrainian conference on macromolecular compounds (Ukraine, Dnipropetrovsk, 1-5 October 2007). 3. Yumyna Y.M., Bubnova A.C. Microbial degradation of protective coating "Poliken 980-25": materials of the V International Scientific Conference for Students and PhD Students ["Youth and the Progress of Biology"] (Ukraine, Lviv, May 12-15, 2009); 4. Koptyeva Zh.P., Zanina V.V., Koptyeva AE, Yumyna Y.M. Metabolic activity of heterotrophic bacteria of biofilms on protective coatings: materials of the XI Congress of the Society of Microbiologists of Ukraine (Ukraine, Uzhhorod, May 2009). p 114. 5. Yumyna Y.M. The succession of microbial population in a biofilm on the protective coating: The Young Scientist and Students' International Scientific Conference May 28-31, 2007 in Odessa 7. Yumyna Yu.M. Biofilm of heterotrophic bacteria as a factor of biological damage of protective coating "Polyken 980-25": Materials of the II International Conference "Biology: from the molecule to the biosphere" (Ukraine, Kharkiv, November 22-25, 2011) 8. Radchenko O., Stepura L., Yumyna Y.M., Boretskaya M.O., Zelena P.P. Influence of anionic surfactant sodium dodecyl sulfate on certain biological properties of STENOTROPHOMONAS MALTOPHILIA Materials of the International Scientific and Practical Conference "Technologies of water purification. Technical, Biological and Environmental Aspects" (Ukraine, Kyiv, 3-5 December 2013) 9. Gavrish K.V., Yumyna Y.M., Stepura L.G., Boretskaya M.O. Features of Planktonic and Biofilm Growth of STENOTROPHOMONAS MALTOPHILIA in the Presence of Low Carbon Steel // Immunology and Allergology -2014, - No. 1, - P. 40-41. 10. Gnatyuk T., Yumyna Y. M., Zelena P.P., Bakanovich N. Determination of biochemical profiles of collection strains of phytopathogenic bacteria of the genus Pseudomonas Pantoea using microbiological analyzer VINTEK 2 COMPACT // Immunology and Allergology -2014, - No. 1, p. 41. 11. Gnatyuk T., Yumyna Y. M., Zelena P.P., Verteletskiy O. Identification of pathogens of bacterial diseases of legumes of the genus PSEUDOMONAS according to biological properties // Immunology and Allergology-2012, - No. 1, - P. 41- 42 12. Gritsenko L.M., Yavorskaya N.V., Svyatetsjka V.M., Yumyna Y.M. Influence of the culture fluid of some representatives of the genus Bacillus on the energy of seed germination, root length and mass of radish and wheat shoots // Immunology and Allergology -2014, - №1, - P. 46-47. 13. Stepura L.G., Kyyanitsa D.V., Zelena P.P., Yumyna Y.M. Antagonistic activity of the culture fluid of some representatives of the genus Bacillus to bacteria, yeast and micellar fungi // Immunology and Allergology -2014, - No. 1, p. 95. 14. Hrytsev O., Zelena P., Yumyna J., Senchylo N. Studies of adhesion properties of phytopathogenic bacteria isolated from European mistletoe (Viscum album L.). Microbiology and Immunology - The Outlook for the Development of the 21st Century. Abstracts book of the II International Scientific Conference, April 14-15, 2016, Kyiv. - Kyiv, 2016 - p.69 15. Hallome Axmed Imad Abbas, Zelena P., Yumyna J., Shepelevych V., Senchylo N., Gladka G. Influence of UF-C irradiation is the survival rate of Pseudomonas and Pantoea bacterial genera. Microbiology and Immunology - The Outlook for the Development of the 21st Century. Abstracts book of the II International Scientific Conference, April 14-15, 2016, Kyiv. - Kyiv, 2016. - p.17 16. Hrytsev O., Zelena P., Yumyna J., Shepelevych V., Trigubenko V., Mishchenko L. Biological properties of the pathogens isolated from plants Glycine maxima L. Microbiology and Immunology - the Development Outlook in the 21st century. Abstracts book of the II International Scientific Conference, April 14-15, 2016, Kyiv. - Kyiv, 2016. - p.71-72 17. Hrytsev O., Yumyna J., Zelena P., Shepelevych V., Voichuk S.I., Buletsa N.M. Endophytic gram-negative microflora Viscum album L. (European mistletoe). Microbiology and Immunology - The Outlook for the Development of the 21st Century. Abstracts book of the II International Scientific Conference, April 14-15, 2016, Kyiv. - Kyiv, 2016. - p.31 18. Zelena P.P., Shepelevich V.V., Stepura L.G., Yumyna Y.M., Dzyublyuk N.A. Biological Properties of Spore-forming Bacteria of Perifiton Apertures Delphinus delphis Materials of the XV Congress of the Society of Microbiologists of Ukraine Odessa 2017
Awards and Prizes	
Membership	S.M. Vinogradsky Society of Microbiologists of Ukraine
Courses	Upper-Intermediate English (International House Kyiv) Kyiv National University named after Taras Shevchenko, Center for Foreign Languages, Certificate No. 4846, 2023

Appendices

Item	Links
Publications	mbt.onu.edu.ua/article/download/96579/92836 virology.com.ua/wp-content/uploads/2015/06/Kharina-2UKR.doc liber.onu.edu.ua/pdf/2014-1.pdf

