



Curriculum Vitae

PERSONAL INFORMATION



Olkhovych Olga Petrivna

64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601

38 044 431 04 18

oolga2005@ukr.net,

olkhovych@knu.ua

Facebook, LinkedIn

Account in scientific databases: ORCID, SCOPUS, Web of Science, Google Scholar

Olga Olkhovych

ORCID ID 0000-0002-7314-7631

Scopus Author ID: 57076992300

Web of Science Resercher ID: ABD-4443-2021

Google Scholar <https://scholar.google.com.ua/citations?hl=uk&pli=1&user=VIKTRKcAAAAJ>

Sex female | **Date of birth** 11.07.1969 | **Citizenship** Ukraine

Scientific degrees (specialization)	PhD degree in Plant Physiology
Academic rank	Associate Professor
Position	Associate Professor
Department	Chair of Plant biology
Faculty/Institute	Educational and Scientific Center "Institute of Biology and Medicine"
Part-time position	—

EDUCATIONAL DISCIPLINES IN WHICH WAS INVOLVED:

Current year	<ol style="list-style-type: none">1. Modern technologies of growing plants in water supply conditions of the cities 1st year of studies, lectures, laboratory works2. Phyto-ecology of landscapes, bachelor, 1st year, lectures, laboratory works3. Botany, bachelor, 1st year, lectures, laboratory works4. Greening of interiors, bachelor, 3rd year, lectures, laboratory works5. Selection of ornamental plants with the basics of genetics, bachelor, 2nd year, lectures, laboratory works6. Training practice in floriculture and landscaping populated areas, bachelor, 3rd year7. Agroecology master's degree, 2st year of studies, lectures, practical works8. Ecology of landscapes, bachelor, 2 st year, lectures, laboratory works
Previous years	<ol style="list-style-type: none">1. Physiology of higher aquatic plants, bachelor, 4th year, lectures2. Physiology and biochemistry of non-vascular plants, bachelor, 4th year, lectures3. Ecological management, master's degree, 1st year of studies, lectures, laboratory works4. Ecology of plants, bachelor, 4th year, lectures5. Phytomonitoring and phytoremediation, master's degree, 1st year of studies, lectures, laboratory works6. Ecology bachelor, 1rd year, lectures, practical works7. Park phytocenology, bachelor, 3rd year, lectures, laboratory works

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SCIENTIFIC AND PEDAGOGICAL EXPERIENCE

Period (starting from last)	Description
Since 02.02.2017 till now	Associate Professor of Plant Biology Chair Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ . Education
From 17.05.2005 till 02.02.2017	Associate Professor of Plant Physiology and Ecology Chair Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ . Education
From 01.09.2000 till 16.05.2005	Assistant Professor of Plant Physiology and Ecology Chair Taras Shevchenko National University of Kyiv; 64/13, Volodymyrska Street, City of Kyiv, Ukraine, 01601; http://www.knu.ua/ . Education
From 03.04.2000 till 01.09.2000	Researcher at the Research Laboratory "Physiological bases of plant productivity" of Biological Department Taras Shevchenko University of Kyiv; 60, Volodymyrska Street, City of Kyiv, Ukraine, 01033; http://www.knu.ua/ . Science
From 02.01.1995 till 02.04.2000	Junior Researcher at the Research Laboratory "Physiological bases of plant productivity" of Biological Department Taras Shevchenko University of Kyiv; 60, Volodymyrska Street, City of Kyiv, Ukraine, 01033; http://www.knu.ua/ . Science
From 01.11.2004 till 01.01.1995	Engineer at the Research Laboratory "Physiological bases of plant productivity" of Biological Department Taras Shevchenko University of Kyiv; 60, Volodymyrska Street, City of Kyiv, Ukraine, 01033; http://www.knu.ua/ . Science

EDUCATION AND TRAINING

Period (starting from last)	Description
1-31.03. 2023	Internship National Botanical Garden M. Hryshka of the National Academy of Sciences (Department of Allelopathy), Kyiv. Taras Shevchenko KNU Order No. 116-32 dated February 14, 2023 (3 credits, certificate). Mastering the methods of assessing the mutual influence of plants in artificial phytocenoses of open and closed soil and modern methods of isolation and identification of allelopathic substances (genes) in ornamental plants for their introduction into the educational process.
9-12.04.2023	The series of webinars on scientometrics "International experience in the publishing field. Successful publications in Scopus and Web of Science" from the company "Scientific Publications", (1 credit, certificate No. AD 1276 dated 12.04.2023).
1.10. 2022	Studying Webinar "Features of co-authored publications in SCOPUS journal/Web of science for Ukrainian scientists." Academy of articles. Certificate from 01.10.2022, (1 hour).
15.11.2021 - 18.11. 2021	The series of webinars on scientometrics "International experience in the publishing field. Successful publications in Scopus and Web of Science" from the company "Scientific Publications", (1 credit, certificate No. AA 3073 dated 19.11.2021).
04.10.2021-18.10.2021	Online course "Google digital tools for institutions of higher, professional pre-higher education", (1 credit, certificate No. 16 GW-093 dated 10/19/2021).
11.01.2021-22.01.2021	Training courses on mastering modern tools and programs of interactive data visualization (certificate).
31.05.2021-07.06.2021	Course "KNU TEACH WEEK"

11.01.2021-22.01.2021	Training course on mastering modern tools and programs for interactive visualization of data design of educational materials and graphic design, etc. for use in the educational process.
From 15.10.2018 till 15.11.2018)	<u>Internship</u> <u>M.G. Kholodny Institute of Botany NAS of Ukraine (http://w.w.w.botany.kiev.ua)</u> <u>Mastering modern methods of determination and isolation of secondary metabolites from algal biomass.</u>
(2012, 2013)	<u>Internship</u> <u>Department of Biotechnology, IGV Institut für Getreideverarbeitung GmbH, Nuthetal, Germany</u> Project "Elaboration and optimization of biotechnology of mineral nutrition in industrial cultivation of economically valuable species of mobile microalgae" (12DF 036-05) Mastering the biotechnology of algae cultivation in the conditions of closed bioreactors
From 01.11.2011 till 31.12.2011)	<u>Internship</u> <u>M.G. Kholodny Institute of Botany NAS of Ukraine (http://w.w.w.botany.kiev.ua)</u> Development of methods of centrifugation, isolation of chloroplasts and chlorophyll extraction.
From 25.10.1991 till 25.10.1994)	PhD student Kyiv State T.G. Shevchenko University Title of PhD thesis «Physiological and biochemical properties of higher aquatic plants as test responses to the action of toxicants (by the example of heavy metals).
From 01.09.1986 till 01.07.1991)	Student Kyiv State T.G. Shevchenko University

PERSONAL SKILLS

Name	Level (description)
Native language	Ukrainian
Foreign language 1	French
Foreign language 2	English, level B2
Communicative competence	The skills of modern methods of phytoindication and biotesting of the aquatic environment were obtained in the Laboratory «Ecological Physiology of Water Plants» at the Institute of Hydrobiology of the National Academy of Sciences of Ukraine during the implementation of the candidate's thesis, the skills of biochemical methods of plant research were obtained during the work in the Research Laboratory "Physiological bases of plant productivity" of Biological Department
Organizational / management competence	Guidance of educational and professional practices in the Research Centre of the Institute of Biology and Medicine, guidance of scientific work of schoolchildren, guidance of student's scientific coursework and diploma work. Member of the jury "Touch of the nature", a jury member of the Olympiad for schoolchildren. Curator. Member of the selection committee Educational and Scientific Center "Institute of Biology and Medicine"
Other computer skills	Use of software for creating presentations, posters, statistical processing of scientific data, editing of drawings and photographs.
Professional skills (not mentioned above)	Methods of quality control of natural waters (biotesting, indicating, fitomonitoring), methods of cultivation of algae and aquatic plants in laboratory conditions. Floristics, creation of compositions and bouquets of fresh flowers. Plant protection methods. Cultivation of house plants and garden plants.
Fields of professional interests	Anatomy and physiology of higher water plants, assessment of the water quality and water environment for conservation of biodiversity of natural reservoirs, problems of phytoindication, phytomonitoring and phytoremediation of aquatic natural complexes using vegetation cover of reservoirs, problems of protection of natural reservoirs from

	phytoinvasions, biotechnological methods of obtaining valuable raw materials from aquatic plants, selection of ornamental plants, phytocenology, ecology, phytodesign and landscaping of interiors, floristics.
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ADDITIONAL INFORMATION

Item	Titles of publications, projects, conferences, awards and prizes, memberships in academies and societies etc.
Publications	<p>1.Olkhovych O.P., S. V. Hrechyshkina, O. O. Panyuta, Nataliya Yu. Taran, R. V. Ivannikov. Secondary Metabolites of Pleustophytes as Markers of Resistance to Metal Nanoparticles. Hydrobiological Journal. Volume 58, Issue 2, 2022, pp. 44-50. (SCOPUS) DOI: 10.1615/HydrobJ.v58.i2.40</p> <p>2.Olkhovych O., Taran N., Hrechishkina S., Voitsekhivska O., Panuta O., Voitsekhivskiy V., Belava V. Evaluation of Hyper-Tolerance of Aquatic Plants to Metal Nanoparticles. J. Ecol. Eng. 2022; 23(8):249–259.</p> <p>3.Olkhovych O.O., Taran N.Yu., Karaushu O.V., Panyuta O.O. Biochemical Characteristics of <i>Spirulina platensis</i> Biomass Obtained by Different Modes of Cultivation. International Journal on Algae, 2020, 22(2): 179–190.</p> <p>4.Olkhovych O., Taran N., Hrechishkina S., Musienko M. Influence of alien species <i>Pistia Stratiotes</i> L., 1753 on representative species of genus <i>Salvinia</i> in Ukraine. Transylvanian Review of Systematical and Ecological Research 22.1 (2020) «The Wetlands Diversity». P.43-56.</p> <p>5.Panyuta O.O., Belava V.N., Olkhovych O.P., Taran N.Yu. Effect of phosphate-mobilized microbial preparations and pathogenesis on protective reactions and photosynthetic apparatus of winter wheat seedlings // Microbiologichny Z. – 2018. – Vol. 80, №6. – P. 66-78.</p> <p>6.Olkhovich O.P., Taran N.Yu., Svetlova N.B., Batsmanova L.M., Aleksiienko M.V., Kovalenko M.S. Assessment of the Influence of the Invasive Species <i>Pistia stratiotes</i> (Araceae) on Some Species of Submerged Macrophytes of Natural Water Bodies of Ukraine Hydrobiological Journal. 2017. v53.i5.80 p. 75-84.</p> <p>7.Olkhovich O.P., Grechyshkina S.V., Taran N.Yu., Batsmanova L.M., Svetlova N.B. Capability for accumulating metals and remediation potential of <i>Pistia stratiotes</i>. // Hydrobiological Journal. 2017. v53.i3.90 p. 90-99.</p> <p>8.O. Olkhovych, N.Svietlova, Y.Konotop, O.Karaushu, S. Hrechishkina // Removal of metal nanoparticles colloidal solutions by water plants. //Nanoscale Research Letters.-2016. (2016) 11:518 DOI 9.1186/s11671-016-1742-9</p> <p>10.Karaushu E.V., Lazebnaya I.V., Kravzova T.R., Vorobey N.A., Lazebny O.E., Kiriziy D.A., Olkhovich O.P., Taran N.Yu, Kots S.Ya, Popova A.A., Omarova E., Koksharova O.A. Biochemical and Molecular Phylogenetic Study of Agriculturally Useful Association of a Nitrogen-Fixing Cyanobacterium and Nodule <i>Sinorhizobium</i> with <i>Medicago sativa</i> L. BioMed Research International. 2015</p> <p>11.Sytar O.V., Olkhovych O.P., Karaushu O.V., Storandt R., Waldeck P., Taran N.Y. Features of cell metabolism of <i>Chlamidomonas reinhardtii</i> CC-124 wild strain [137c] under mixotrophic and phototrophic cultivation. International journal of Algae. 2015. 17(4) pp.371-384.</p> <p>12.Olkhovich O. P., Taran N. Yu. Ecological Assessment of the Metal Nanoparticles Impact on the Growth Processes of Pleustophytes.// Hydrobiological Journal. v50.i4.80 p. 70-78.</p> <p>13.Olga Olkhovych, Nataliya Taran, Olena Patsko and Inna Kravchenko. Assessment of potential hazards of biogenic metals nanoparticles to aquatic plants. // Natura Monenegrina, Podgorica, 2013, 12 (3-4) P. 883-893.</p> <p>14.Olkhovych O. P., Taran N. Yu., Belava V. N., Panyuta O. O. Assessment of the Nutritional Value of the Green Algae Biomass Cultivated in Phytobioreactor. Hydrobiological Journal Volume 59, Issue 5, 2023, pp. 93-100.</p>
Proect	<p>"Solution of problematic issues of diversity and stress-tolerance of representatives of the flora and mycobiota of Ukraine under global climate change" (16 KF 036-07) 2019-2023.</p> <p>«Development of theoretical and methodological bases and landfill verification of the impact of environmental pollution by petroleum products and heavy metals by precision hyperspectral and gasometric ground and satellite studies of the Wetlands in Ukraine » Horizont 2020, 2018-2020</p> <p>"Assessment of the impact of phyto-invasive species on Ukraine's reservoirs under the conditions of global climate changes and their remediation potential" (16DF036-02), 2016.</p> <p><u>"Elaboration and optimization of biotechnology of mineral nutrition in industrial cultivation of economically valuable species of mobile microalgae" (12DF 036-05), 2012.</u></p>

Conferences	<p>The V International Science Conference «Priority directions of science development», 2023.</p> <p>6th International Conference "Nanotechnology" G T U n a n o 2 0 2 1, 2021</p> <p>The XII International Science Conference «About modern problems in science and ways to solve them», 2021</p> <p>XVIII International Conference of Students and Young Scientists Shevchenkivska vesna: Bioscience advances, 2020</p> <p>International Summer School and International research and practice conference, 2019</p> <p>XV International Scientific Conference "Youth and Progress in Biology", 2019</p> <p>XII International Scientific Conference «Synanthropization of Flora and Vegetation», 2018</p> <p>International symposium: "Sustainable Approaches for Improving Wheat Yield and Nutritional Value", 2018</p> <p>The International research and practice conference "Nanotechnology and nanomaterials" (NANO-2017), 2017</p> <p>XV International Scientific Conference "Shevchenkivska vesna: bioscience advances". – Kyiv, 2017.</p> <p>XIII International scientific conference "Youth and Progress of Biology". – Lviv, 2017.</p> <p>XIV International Scientific Conference of Students and Young Scientists Shevchenkivska vesna: life sciences. 2016</p> <p>Research and Practice Conference "Nanotechnology and Nanomaterials (NANO-2016), 2016</p> <p>International scientific conference "Innovative technologies in plant production», 2015</p> <p>XIII International Scientific Conference of Young Scientists Shevchenkivska vesna: life sciences, 2015</p> <p>XI Ukrainian Biochemical Congress. – Kyiv, 2014.</p> <p>3rd International scientific conference "Plant growth and development control: physiological, biochemical and genetic aspects" – Kharkiv, 2014.</p> <p>XII International Scientific Conference of Students and Young Scientists Shevchenkivska vesna: life sciences, 2014</p> <p>V International symposium of ecologists of the republic of Montenegro. 2013</p>
Awards and prizes	<p>The best teacher of the year 2009-2010</p> <p>Medal of the Academy of Sciences, 1993</p>
Membership in academies, professional and scientific associations	<p>Member of Ukrainian Society of Plant Physiologists</p> <p>Member of Ukrainian Biochemical Society</p> <p>Member of the Hydroecological Society of Ukraine</p>

SUPPLEMENTS

Name	Links
Diplomas	PhD Diploma in Plant Physiology (1995),
Certificates	<p>The V International Science Conference «Priority directions of science development», 06-08 february 2023 (0,4 ECTS credits).</p> <p>The XII International Science Conference «About modern problems in science and ways to solve them», 06-08 december 2021 (0,4 ECTS credits).</p> <p>Associate Professor of the Department of Plant Physiology and Ecology (2007)</p>
Publications	<ol style="list-style-type: none"> 1. Olkhovich O.P. , Panyuta O.O., Belava V.N. Phytocology of landscapes –K., 2023. –142c. 2.Panyuta O.O., Olkhovich O.P. Plant anatomy: practical course.. – Kyiv, 2019. – 280 p. 3. Panyuta O.O., Olkhovich O.P. Plant anatomy: textbook. – Kyiv, 2009. – 272 p. 4.Panyuta O.O., Olkhovich O.P., Kapustian A.V. Plant anatomy: terms. – Kyiv, 2012. – 110 p. 5.Voitsekhivska O.V., Kapustian A.V., Kosyk O.I., Musiyenko M.M., Olkhovich O.P., Panyuta O.O., Parshikova T.V., Slavnyy P.S. Plant physiology. Practical course. – Lutsk, 2010. – 420 p. 6. Parshikova T.V., Musiyenko M.M., Voitsekhivska O.V., Kosyk O.I., Panyuta O.O., Olkhovich O.P. Test tasks on normative courses for "Bachelor" degree edited by L.I.Ostapchenko, Balan P.G.–Kyiv, 2010. P.177-206. 7. Olkhovich O.P. , Musiyenko M.M. Phytointication and phytomonitoring. Kyiv, 2005,–48p. 8. Musiyenko M.M., Olkhovich O.P. Methods of study of higher aquatic plants. Kyiv,2005. 60p.