



# Curriculum Vitae

Tyshchenko O.V.

## PERSONAL INFORMATION Tyshchenko Oksana Vasylivna



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Personal web <https://biomed.knu.ua/institute-activity/educational/kafedry/kafedra-plant-biology/spivrobotnyky/vyk>

Accounts in scientific databases:

[https://www.researchgate.net/profile/Oksana\\_Tyshchenko2](https://www.researchgate.net/profile/Oksana_Tyshchenko2)

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Стать F | Дата народження 17/10/1975 | Громадянство Ukraine

Scientific degrees (specialization)	PhD degree in Biology, 03.00.05-botany
Academic rank	Associate professor
Position	Associate professor
Department	Plant Biology
Faculty/Institute	ESC "Institute of Biology and Medicine"

## EDUCATIONAL DISCIPLINES IN WHICH WAS INVOLVED:

Current year	<ol style="list-style-type: none"><li>1. "Botany" (module "Land plants"), educational degree «Bachelor», 1st course, full-time form of study lectures and practical course.</li><li>2. "Botany", educational degree «Bachelor», 2nd course, external form of study lectures course.</li><li>3. "Environmental protection in the urban environment", 1 year master's degree, lectures and laboratory classes.</li><li>4. "Plant World Conservation", educational degree «Bachelor», 2nd year, lectures and practical classes.</li><li>5. "Garden and Park Construction", educational degree «Bachelor», 4th course, full-time form of study lectures and practical course.</li><li>6. "Plant biology", educational degree «Bachelor», 1st course, full-time form of study lectures and practical course.</li><li>7. "Vegetation of the Globe", educational degree «Bachelor», 2st course, full-time form of study lectures and practical course.</li><li>8. "Forest science", educational degree «bachelor», 4th course, full-time form of study lectures and practical course.</li><li>9. Educational practice in botany and zoology - educational degree «Bachelor», 1st course, full-time form of extracurricular course.</li></ol>
Previous years	<ol style="list-style-type: none"><li>1. "Introduction to systematics", educational degree«Bachelor» 4th course, full-time form of study lectures course.</li><li>2. "Protection of the plant world", educational degree "Master", 2nd course, full-time form of study lectures and practical course.</li><li>3. "Botany" (module "Land plants"), educational degree «Bachelor», 1st course, full-time form of study lectures and practical course.</li><li>4. "Biology" (teaching in english), educational degree «Bachelor», 1st course, Faculty for training of foreign citizens, practicals.</li><li>5. "Archegoniates", 3rd course, 4th course, educational degree«Bachelor» full-time form of study lectures course.</li><li>6. "Systematics, phylogeny and evolution of land plants (archegoniates)", educational degree«Bachelor», 3rd course, full-time form of study lectures course.</li><li>7. "Vegetation of the globe", educational degree «Bachelor», 1st course, full-time form of study lectures and practical course.</li><li>8. "Systematics of land plants", educational degree «Bachelor», 4th course, full-time form of study lectures course.</li><li>9. "Systematics of archegoniates", educational degree «Bachelor», 3rd course, full-time form</li></ol>

	<p>of study lectures course.</p> <p>10. "Flora of Ukraine", educational degree «Master», 1st course, full-time form of study lectures and practical course.</p> <p>11. "Flora and vegetation of Ukraine", educational degree «Specialist», 1st course, full-time form of study lectures and practical course.</p> <p>12. "Phytosozology", educational degree «Bachelor», 4th course; educational degree «Master», 1st course, full-time form of study lectures and practical course.</p> <p>13. "Protection of the plant world", educational degree «Bachelor», 4th course, full-time form of study lectures and practical course.</p> <p>14. "Protected areas zoology", educational degree «Bachelor», 4th course, full-time form of study lectures and practical course.</p> <p>15. "Protected areas management and Red Book", educational degree «Bachelor», 4th course, full-time form of study lectures and practical course.</p> <p>16. "Biodiversity protection strategies", educational degree «Master», 2nd course, full-time form of study lectures and practical course.</p> <p>17. "Macroevolution and macrosystems of the organic world", educational degree «Specialist», 1st course; educational degree «Master», 2nd course, full-time form of study lectures and practical course.</p> <p>18. "Phylogenetic systems and methods of plant taxonomy", educational degree «Master», 2nd course, full-time form of study lectures and practical course.</p> <p>19. "Monocotyledonous plants", educational degree «Bachelor», 4th course, full-time form of study lectures course.</p> <p>20. "Botanical resource science", educational degree «Bachelor», 4th course, full-time form of study lectures and practical course.</p> <p>21. "Introduction to the specialty", educational degree «Bachelor», 3rd course, full-time form of study practical course.</p> <p>22. "Methodology of botanical research", educational degree «Bachelor», 3rd course, full-time form of study practical course.</p> <p>23. "Methods of botanical research", educational degree «Bachelor», 4th course, full-time form of study practical course.</p> <p>24. "Laboratory of Specialization", educational degree «Bachelor», 3rd course, full-time form of study practical course.</p> <p>25. "Laboratory Practicum on Botany", educational degree «Bachelor», 3rd course, full-time form of study practical course.</p> <p>26. "Laboratory Practicum on Plant Biology", educational degree «Bachelor», 4th course, full-time form of study practical course.</p> <p>27. "Labor safety", educational degree «Bachelor», 3rd course, full-time form of study practical course.</p> <p>28. «Medical biology» (in english), educational degree «Bachelor», 1st course, full-time form of study lectures and practical course.</p>
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## SCIENTIFIC AND PEDAGOGICAL EXPERIENCE

Period (starting from last)	Description
since 2016	<p>Position: Associate professor, Department of Plant Biology</p> <p>Taras Shevchenko National University of Kyiv, Educational and Scientific Center "Institute of Biology and Medicine", Kyiv, Ukraine</p> <p>Area of activity: Education / Science</p>
From 2002 to 2016	<p>Position: Associate professor, Department of Botany</p> <p>Taras Shevchenko National University of Kyiv, Educational and Scientific Center "Institute of Biology and Medicine", Kyiv, Ukraine</p> <p>Area of activity: Education / Science</p>
From 1999 to 2002	<p>Position: Assistant professor, Department of Botany</p> <p>Taras Shevchenko National University of Kyiv, Faculty of Biology, Kyiv, Ukraine</p> <p>Area of activity: Education / Science</p>

## EDUCATION AND TRAINING

Period (starting from last)	Description
2023	<p>Training and development of pedagogical competencies of teachers "KNU Teach Week 4"</p> <p>Acquired experience in enhancing the efficiency of the educational process and fostering personal growth through technology</p>
2022	<p>Training and development of pedagogical competencies of teachers "KNU Teach Week 3"</p>

	<p>An experience in technologies for increasing the efficiency of the educational process, methods of compiling complex tasks for professional tests, work-life balance, prevention of plagiarism in the educational process and scientific activity, regulatory support for the system of selective disciplines</p> <p>Professional Development Course 'Google Digital Tools for Education (Basic Level)'</p> <p>Acquired experience in utilizing tools and methods for effective implementation of distance learning.</p> <p>Professional development course 'Google Digital Tools for Education (Intermediate Level)'</p> <p>Acquired experience in utilizing tools and methods for effective implementation of distance learning.</p> <p>Professional development course 'Google Digital Tools for Education (Advanced Level)'</p> <p>Acquired experience in utilizing tools and methods for effective implementation of distance learning.</p>
2021	<p>Training and development of pedagogical competencies of teachers "KNU Teach Week"</p> <p>Experience in the improvement of distance education effectiveness (means and methods).</p>
2019	<p>Kyiv National University of Construction and Architecture</p> <p>Experience in methods of efficient use of plants in green building</p>
2005	<p>Laboratory of Bryology of the V. Shafer Institute of Botany, Polish Academy of Sciences, Krakow, Poland</p> <p>Database of scientific publications on antarctic biota and KRAM herbarium collection (antarctic bryophytes) familiarization</p>
2004	<p>Department of Lichenology and Bryology of the M.G. Holodny Institute of Botany, NAS of Ukraine, Kyiv</p> <p>KW herbarium collection (bryophytes) familiarization, improving skills on Ukrainian flora bryophytes identifying.</p>
From 1997 to 2001	<p>Taras Shevchenko National University of Kyiv, Faculty of Biology, Department of Botany, Kyiv, Ukraine</p> <p><a href="#">Experience/degree</a> – Doctor of Philosophy in Biology (PhD thesis "Vegetation of the maritime spits of the Azov sea northern coast")</p>
From 1992 to 1997	<p>Taras Shevchenko National University of Kyiv, Faculty of Biology, Kyiv, Ukraine</p> <p>Education –Student at Faculty of Biology, of Taras Shevchenko National University of Kyiv, Kyiv,Ukraine</p> <p><a href="#">Experience/degree</a> –Biologist –botanist, teacher of Biology (graduate-level thesis "Vegetation of the state landscape reserve "Kosa Obitochna" (Zaporizhzhya region)").</p>

## PERSONAL SKILLS

Name	Level (description)
Native language	Ukrainian
Foreign language 1	English, B2, Certificate № 3070 "English for professional purposes. Taras Shevchenko National University of Kyiv. Foreign Language Center"
Foreign language 2	Polish, A1/A2
Communicative competence	Communication skills while working as a lecturer at Taras Shevchenko National University of Kyiv, at scientific conferences and seminars, and during qualifying internships.
Organizational /management competence	Experience with teaching and mentoring undergraduate and graduate students, including guidance of educational and professional practices at ESC "Institute of Biology and Medicine," and guidance of student's scientific coursework and diploma work. Approximately 30 students were trained to defend their undergraduate and graduate-level theses. Jury member of the Olympiads for schoolchildren, as well as a mentor.
Other computer skills	Standard set of PC user skills, including proficiency in Ubuntu and Windows operating systems software for scientific and educational publications, illustrations, presentations, and other educational materials, phytosociological and molecular genetic data processing, photo-video editing, and online communication.
Professional skills (not mentioned above)	Proficient in field expeditionary research and field practices, excursion programs, and editing of educational and scientific publications. Skilled in scientific writing and presentation, with several publications in peer-reviewed journals and conference presentations.
Fields of professional interests	Phytosociology, phytosozology (plant world protection), climate change and biodiversity, cartographic monitoring, Antarctic bryophytes, greening of the urban landscapes, molecular taxonomy of non-vascular and vascular land plants

## ADDITIONAL INFORMATION

Item	Titles of publications, projects, conferences, awards and prizes, memberships in academies and societies etc.
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## Publications

- Tyshchenko O., Tyshchenko V., Davydenko I., Govorun O. Ravine-gully landscapes of Kharkiv Region (Ukraine) as loci of meadow steppes biodiversity // *Palaeartic Grasslands. Journal of the Eurasian Dry Grassland Group*. - Issue 57 (July 2023). - P. 17-25. DOI: 10.21570/EDGG.PG.57.17-25
- Tkachenko V.S., Shapoval V.V., Tyshchenko V.M., Tyshchenko O.V. Changes in the vegetation cover of the "Northern" plot of the F.E. Falz-Fein Askania-Nova Biosphere Reserve (preliminary results of land remote sensing methods testing) // The traditions of reserve management, modern problems of conservation and post-war restoration of the territories of the nature reserve fund: a collection of scientific papers based on materials of the All-Ukrainian round table dedicated to the 160th anniversary of the birth of Friedrich Faltz-Fein, a scientist in the fields of acclimatization, animal husbandry, plant growing, nature conservation, nature management (April 8, 2023, Ecological research station «Deep Balyky», Balyko-Shchuchynka village) / edited by V. V. Shapoval. Series: "Conservation Biology in Ukraine". Issue 32) – Chernivtsi: Druk Art, 2023. – P. 195-202.
- Tyshchenko O., Tkachenko V., Tyshchenko V. Restoration approaches for steppe vegetation losses in Ukraine due to Russian military aggression: a program // 31st Conference of the European Vegetation Survey: European vegetation survey: methods and approaches in a changing environment, May 21 – 25, 2023, Rome (Italy). - P. 107.
- Tkachenko V., Tyshchenko O., Tyshchenko V., Shapoval V., Lysenko H. Monitoring polygons of steppes and Azov-type spits: application of remote sensing data for assessing the status of vegetation cover / 18th Eurasian Grassland Conference Conservation and management of grasslands in transforming landscapes. Book of abstracts. - Szarvas, Hungary, 25-28 September 2023. - P. 74.
- Tyshchenko O. The forecast of anthropogenic transformations of the Azov Sea spits and their vegetation // 17th Eurasian Grassland Conference "Grassland dynamics and conservation in a changing world". - Tolosa, Spain, 12-18 September 2022. - P.75.
- Kryvomaz T.I., Tyshchenko O.V., Suleimanov I.E. Plants for biophilic design in green construction // *Theory and Practice of Design: Collection of Scientific Papers. Gardening and Park Management*. - K.: NAU, 2022. - Issue 25. - P. 236-248. - doi: 10.18372/2415-8151.25.16801
- Tyshchenko O.V., Tyshchenko V.M. Ravines of Kharkiv region as loci of meadow steppes phytodiversity // *Proceedings of the 5th International Scientific and Practical Conference «Science, Education, Innovation: Topical Issues and Modern Aspects»* (December 25-26, 2021). - Tallinn, Estonia: Ühingu Teadus juhatus, 2021. - P. 528-532.
- Tyshchenko O.V., Tyshchenko V.M., Tkachenko V.S. Changes in the vegetation of the Stepok loess island (Zaporizhzhya region) over a 92-year period (1927–1999–2019) // *Bulletin of the Askania-Nova Biosphere Reserve*. - Volume 22. - 2020. - P. 4-9.
- Kucheryava L.F., Tyshchenko O.V. Plant morphology // *Encyclopedia of Modern Ukraine*. - T. 21. - K., 2019. - P. 618-620.
- Futorna O.A., Badanina V.A., Olshansky I.G., Tyshchenko O.V. Ultrastructure of the surface of leaves of *Ginkgo biloba* L. under conditions of heat stress (on the example of Kyiv city) // *Introduction of plants*. - 2019. - No 4. - P. 51—59. <https://doi.org/10.5281/zenodo.3566616>
- Tkachenko V.S., Tyshchenko O.V., Boychenko S.G. Azov region steppes and Northern Azov region maritime spits under conditions of modern environmental changes // *Bulletin of Askania-Nova Biosphere Reserve*. - Volume 21. - 2019. - P. 18-26.
- Onoprienko I.I., Tyshchenko O.V. Gardening and accomplishment of the homestead on the example of private household in rural area // *Proceedings of the I International Scientific and Practical Conference "Green Building"*, November 12-13, 2019 - Kyiv, 2019. - P. 62-64.
- Samotokhina O.A., Ivanova I.Yu., Tyshchenko O.V. Species and varieties of the genus *Taxus* L. in ornamental landscaping of urban areas // *Proceedings of the I International Scientific and Practical Conference "Green Building"*, November 12-13, 2019 - Kyiv, 2019. - P. 31-33.
- Tyshchenko O.V., Kryvomaz T.I. Plant component of green building // *Proceedings of the I International Scientific and Practical Conference "Green Building"*, November 12-13, 2019 - Kyiv, 2019. - P. 149-151.
- Svietlova N.B., Storozhenko V.A., Futorna O.A., Badanina V.A., Tyshchenko O.V., Olshanskij I.G., Taran N.Yu. Estimation of the Prospects of Using Model Species of Wood Plants for the Overcoming the "City Heat Island" by Parameters of the Functional State of Photosynthetic Apparatus // *Journal of Automation and Information Sciences*. - 2018. - 50(12). - P. 51-61. DOI: 10.1615/JAutomatInfScien.v50.i12.40
- Karpenko N., Martyniuk V., Tyshchenko O., Tekpinar Dizkirici A., Didenko V., Kostikov I. Resolving the position of *Astragalus borysthenticus* Klokov within the *Astragalus* L. species // *Turk J Bot*. - 2018. - 42. - P. 623-635. doi:10.3906/bot-1712-52
- Boychenko S., Movchan Ya., Tyshchenko O. Modern tendencies of climate, water resources and ecosystems changes in the middle-lower part of Southern Bug river, Ukraine // *Proceedings of the National Aviation University*. - 2017. - N3(72). - P. 78-89.
- Martyniuk V.O., Tyshchenko O.V., Karpenko N.I., Tarieiev A.S., Kostikov I.YU. Taxonomic status of *Atocion hypanicum* (Klokov) Tzvelev (Caryophyllaceae) inferred from analysis of ITS1 and ITS2 secondary structure // *Chornomors'k. bot. z.* - 10 (4). - 2014. - P. 416-425.
- Kolomyichuk V.P., Tyshchenko O.V. Pryazovskiy NPP / Phytodiversity of nature reserves and national nature parks of Ukraine. P.2. National nature parks / Editors: V.A. Onyshchenko, T.L. Andrienko. – Kyiv: Phytosociocentre, 2012. – P. 410-428.
- Tareev A.S., Girin A.I., Karpenko N.I., Tyshchenko O.V. Modified method of DNA extraction from herbarium specimens // *Chorn. Botan. Journ.* - Vol. 7, № 4. – 2011. – P. 309-317.
- Matvieieva N.A., Belokurova V.B., Rudas V.A., Tyshchenko O.V., Kuchuk M.V. Preservation and micropropagation in vitro plants of Antarctic // *Biotechnology*. – 2010. – 3, № 3. – P. 23-41.
- Mosyakin S.L., Tyshchenko O.V. A pragmatic phylogenetic classification of vascular cryptogamic plants of the flora of Ukraine // *Ukr. Botan. Journ.* - 2010. - Vol. 67, No 6. – P. 802-817.
- Kozeretska I.A., Parnikoza I.Yu., Mustafa O., Tyshchenko O.V., Korsun S.G., Convey P. Development of Antarctic herb tundra vegetation near Arctowski station, King George Island // *Polar Science*. – 2010. – 3. – P. 254-261.
- Parnikoza I., Convey P., Dykyy I., Trokhymets V., Milinevsky G., Tyshchenko O., Inozemtseva D., Kozeretska I. Current status of the Antarctic herb tundra formation in the Central Argentine Islands // *Global Change Biology*. – 2009. – 15. – P. 1685–1693.

Projects	<p>Project № 21/09/21-1 "Organization and carrying out of biodiversity research, analysis of the potential influence on the Emerald Network sites (Kharkiv region)"</p> <p>Project SFFR F76 / 37497 "Developing the strategy of reducing the negative impact of Kyiv's "Urban Heat Island" area by the selection of the stress resistant plant species from world flora", state registration number 0117U001999.</p> <p>Project No. H/ 6-2007 "Integrated study of the Antarctic biota".</p> <p>Project № 05ДФ036-05 under contract No. H/1 - 2005 "Genetic and biochemical monitoring of biota and determination of environmental indicators in the Argentine islands region"</p> <p>Scientific-technical expertise № 8H036-49 "Estimation of possible causes of increased thermal radiation of tree trunks at the accident site near the Ozhid village".</p> <p>Scientific-technical expertise № NO06-42 "Identification of seeds of weed plants in a wheat sample ODL 0710-0136".</p> <p>Scientific-technical expertise № 8H036-08 "Establishing the species composition of lupine and determining the percentage of its seeds in a soybean sample number OD0810-0072 using the morphological method").</p>
Awards and prizes	<p>2007 - Certificate of the Presidium of the National Academy of Sciences of Ukraine for a series of works "Vegetation of the maritime spits of the Azov sea northern coast".</p> <p>2001 - Premium for early defense of the PhD thesis.</p>