

OLENA SEMENOVA



Position: Associate Professor of Ecology and Environmental Management at the National University of Food Technologies;

Citizenship: Ukraine;

Languages: Ukrainian (native), English (basic education)

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Education:

2023 - advanced training course at the Institute of Agroecology and Nature Management
2017 - advanced training course on the formation of psychological and pedagogical foundations of environmental knowledge in teaching the discipline 'Ecology', University of Education Management, Kyiv, Ukraine;

2021 internship under the contract with the National Technical University 'Dnipro Polytechnic National Technical University, Kyiv, Ukraine;

1994 - Associate Professor

1991 - Senior Researcher

1986 - Candidate of Technical Sciences (speciality 03.00.23 - Biotechnology), Kyiv Technological Institute of Food Industry;

1971 - graduated from Kyiv Technological Institute of Food Industry with a degree in microbiological and vitamin production technology

Professional experience:

2021 - Associate Professor of the Department of Environmental Safety and Labour Protection, NUPT;

2018-21 - Acting Head of the Department of Environmental Safety and Occupational Health, NUFT; 2016-18 - Head of the Department of Environmental Control and Sustainable

Environmental Control and Sustainable Use of Natural Resources, NUFT ;

1992-2016 - Associate Professor of the Department of Environmental Control and Balanced Nature Management, NUFT

1989-92 - Associate Professor of Biochemistry, UUFT ; 1979-89 - Assistant Professor of Biochemistry, KTIPP; 1976-79 - Postgraduate student of Biochemistry, Kyiv Technological Institute of Food Industry.

Teaching activity:

Lecture courses 'Human Ecology', 'Environmental Toxicology',
'Environmental technologies and equipment'.

Supervisor of qualification works for the Bachelor's degree and Master's degree in Ecology.

International publishing activity:

2017-2020 European Commission Grant, Jean Monnet Centre of Excellence, Department of Policy, Regulation and Best Practices for Sustainable Food Production and Consumption in the European Union, Erasmus+ Programme.

Scientific publications and reports:

More than 200 scientific publications, about 50 reports at scientific conferences, 3 patents of Ukraine, 4 copyright certificates

Articles:

1. **Olena Semenova**, Olga Togachynska, Andriy Kotynskyi, Evgenia Omelchenko. Assessment of the quality of surface waters in Khmelnytskyi region based on sanitary, hydrological and toxicity. P. 219-228. Selected Papers of the V International Conference on European Dimensions of Sustainability. Development, June 1-2, 2023. - Kyiv: NUFT, 2023.
2. **Semenova O.**, Biotechnological utilisation of fallen leaves / N. Bubliienko, O. Semenova, O. Skydan, T. Tymoshchuk, V. Tkachuk // *Scientific Horizons*. - 2020. - No. 02 (87). - P. 7-14. <http://dspace.nuft.edu.ua/jspui/handle/123456789/31681>.
3. Bubliienko, N.O. Methane fermentation of pig farm wastewater / N.O. Bubliienko, **O.I. Semenova**, O.O. Lavryniuk // *Scientific Horizons*. 2020 - No. 7 (92) - P. 74-79. <http://dspace.nuft.edu.ua/jspui/handle/123456789/31909>.
4. **Semenova OI**, Processes of accumulation and migration of copper in dark grey podzolic soil / OI Semenova, OV Togachynska, AV Kotynskyi, OV Nychyk, IY Kravchenko // *Ecological Sciences*. - 2020. - No. 4 (27). - P. 58-61. <http://dspace.nuft.edu.ua/jspui/handle/123456789/30667>.
5. Wastewater treatment from nitrogen compounds / **O. Semenova**, N. Bubliienko, T. Suleyko, L. Reshetniak // *The scientific heritage*. - No. 43, Vol. 2. - 2020. - P. 37 - 41. <http://dspace.nuft.edu.ua/jspui/handle/123456789/30766>.
6. **Semenova O.I.**, Electrostimulation of activated sludge of aerotanks as a way to integrate wastewater treatment of dairy processing enterprises, Semenova O.I., Bubliienko N.O., Suleyko T.L. // *Chemistry and Technology of Water* №5(241), Vol. 36, 2014, pp. 441-447 (Scopus). <http://dspace.nuft.edu.ua/jspui/handle/123456789/26278>.
7. Bubliienko, N. O. Application of eco-technology for the processing of pig farm waste / N.O. Bubliienko, **O.I. Semenova**, T.L. Suleyko // *Food industry*. 2019. - No. 25. - P. 148- 155. <http://dspace.nuft.edu.ua/jspui/handle/123456789/30140>.
8. Substantiation of biochemical oxidation of hydrocarbon-containing wastewater pollution / **OI Semenova**, N. Bubliienko, T. Suleyko, L. Reshetnyak // *Food Industry*. - 2019. - No. 25. - P. 87-92. <http://dspace.nuft.edu.ua/jspui/handle/123456789/30141>.

9. *Composition of activated sludge organisms in the treatment of hydrocarbon-containing wastewater and wastewater from the agro-industrial complex* / **Semenova O.I.**, Bubliienko N, Shilofost T, Reshetnyak LR // *Food Resources*. 2018 - No. 10 - P. 237-242. <http://dspace.nuft.edu.ua/jspui/handle/123456789/28113>.

Presentations at conferences:

1. **Semenova O.I.**, Omelchenko E.O., Togachinska O.V., Kotynskyi A.V. Ecological problems of bakery complexes, pp. 166-175. Scientific Collection 'InterConf', (162): with the Proceedings of the 12th International Scientific and Practical Conference 'Scientific Research in XXI Century' (July 16-18, 2023; Ottawa, Canada) by the SPC 'InterConf'. Methuen Publishing House, 2023. 296p. https://archive.interconf.center/index.php/conference_proceeding/issue/view/16-18.07.2023.

2. Suleyko TL, **Semenova O.I.** Modified technology for the treatment of non-concentrated dairy wastewater // LX International Congress of Ecologists, 25-27 September, 2024: a collection of scientific papers [Electronic resource]. - Vinnytsia, VNTU, 2024 - pp.37 - 39. <https://press.vntu.edu.ua/index.php/vntu/catalogue/book/854>

3. Togachinska O.V., **Semenova O.I.**, Omelchenko E.O. Normalisation of atmospheric air by sanitary and toxicological indicators of the city of Kyiv. Scientific Collection 'InterConf', (152): with the Proceedings of the 14th International Scientific and Practical Conference 'Science and Practice: Implementation to Modern Society' (April 26-28, 2023; Manchester, United Kingdom) by the SPC 'InterConf'. Peal Press Ltd., 2023. C. 503-507. Access mode: https://archive.interconf.center/index.php/conference_proceeding/issue/view/26-28.04.2023/162.

4. **Semenova O.I.**, Koretska E.M., Togachynska O.V. Production of biofuels from corn. The 8th International scientific and practical conference 'Scientific progress: innovations, achievements and prospects' (May 1-3, 2023) MDPC Publishing, Munich, Germany, 2023. C. 152-160. Access mode: <https://sci-conf.com.ua/wp-content/uploads/2023/05/SCIENTIFIC-PROGRESS-INNOVATIONS-ACHIEVEMENTS-AND-PROSPECTS-1-3.05.2023.pdf>.

5. **Semenova O.I.**, Omelchenko E.O., Togachynska O.V., Kotynskyi A.V. Waste to hydrogen conversion - a revolutionary production approach to green energy and an effective utilisation strategy in Ukraine. The 2nd International scientific and practical conference 'Innovative development of science, technology and education' (November 16-18, 2023) Perfect Publishing, Vancouver, Canada. 2023. 858 p. Access mode: <https://sci-conf.com.ua/wp-content/uploads/2023/11/INNOVATIVE-DEVELOPMENT-OF-SCIENCE-TECHNOLOGY-AND-EDUCATION-16-18.11.23.pdf>.

6. **Semenova O.I.**, Omelchenko EO, Togachinska OV, Kotynskyi AV / Treatment of wastewater from food enterprises, pp. 183-191. Scientific Collection 'InterConf', (164): with the Proceedings of the 6th International Scientific and Practical Conference 'Recent Scientific Investigation' (July 26-28, 2023; Oslo, Norway) by the SPC 'InterConf'. Dagens næringsliv forlag, 2023. 284p. <https://>

7. **Semenova O.I.**, Yasinska V.O., Suleyko T.L., Onofrienko A.I. Utilisation of wastewater containing oil products: The 8th International scientific and practical conference 'World science: problems, prospects and innovations' (April 21-23, 2021) Perfect Publishing, Toronto, Canada. 2021. 726-730 p.
8. **Semenova O.I.**, Yasinska V.O., Onofrienko A.I. Wastewater treatment of dairy processing enterprises: The 7th International scientific and practical conference - Priority directions of science and technology development (March 21-23, 2021) SPC -Sciconf.com.ua, Kyiv, Ukraine. 2021. 398-404 p.
9. **Semenova O.I.**, Yevtushenko O.V., Yasinska V.O., Treatment of judicial wastewater: The 7th International scientific and practical conference 'European scientific discussions' (May 23-25, 2021) Potere della ragione Editore, Rome, Italy. 2021. 130-133 p.
10. **Implementation of Jean Monnet Chair 'European Union Policies, Regulations and Best Practices in Sustainable Food Production and Consumption' at National University of Food Technology, Ukraine / I. Yakymenko, O. Salavor , O. Semenova, O. Nychyk, Y. Voytenko Palgan, Y. Voytenko Palgan,**
11. Y. Shapovalov // European Dimensions of Sustainable Development: proceedings of the II International conference, June 26, 2020. - Kyiv: NUFT, 2020. - P. 14. <http://dspace.nuft.edu.ua/jspui/handle/123456789/30229>.
12. **Semenova, OI** Technology of wastewater treatment of dairies using methane fermentation / OI Semenova, VO Yasinska, IM Stashuk // Technogenic and environmental safety of Ukraine: state and prospects for development / TEB-2020 : materials of the X All-Ukrainian scientific and practical Internet conference, 5 November 2020 - Irpin: University of the State Fiscal Service of Ukraine, 2020. - P. 239.
13. Environmental biotechnology is a way to obtain an unconventional energy source / T. L. Suleyko, **O. I. Semenova** , N. O. Bubliienko // Biotechnology of the XXI century: materials of the XIV All-Ukrainian Scientific and Practical Conference, May 20, 2020, Kyiv - Kyiv: Igor Sikorsky Kyiv Polytechnic Institute, Polytechnic Publishing House, 2020. <http://dspace.nuft.edu.ua/jspui/handle/123456789/31677>.
14. Yasinska VO, **SemenovaOI**, Bubliienko NO // Scientific achievements of youth - solving the problems of human nutrition in the XXI century: materials of the 86th International Scientific Conference of Young Scientists, Postgraduates and Students, 2-3 April 2020, Kyiv - Kyiv: NUFT, 2020.

Instructions:

1. Levandovskyi L.V., Driuk V.G., **Semenova O.I.** et al. Biological Chemistry: Textbook - K: NUFT, 2012. - 363 p. (Stamp of the Ministry of Education and Science of Ukraine) <http://dspace.nuft.edu.ua/jspui/handle/123456789/6062>
2. Levandovskyi L.V., Bublienko N.O., **Semenova O.I.** Environmental technologies and equipment: Textbook - K: NUFT, 2013. 243 p. (Stamp of the Ministry of Education and Science of Ukraine) <http://dspace.nuft.edu.ua/jspui/handle/123456789/11849>

3. **Semenova O.I., Bubliyeiko N.O.** *Fundamentals of environmental toxicology: Textbook.* - K: NUFT, 2014. 263 p. (Stamp of the Ministry of Education and Science of Ukraine).

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Semenova OI, Bubliencko N, Suleyko TL. Use of concentrated waste from livestock farms for biogas production. Energy efficiency and energy saving: economic, technical, technological and environmental aspects. Poltava: P.P. Astraya, 2019. C.490-510.