

CV
Oksana M. Voloshchuk



Name, first name, patronymic:

Oksana M. Voloshchuk

Date of birth: July 16, 1980

Gender: female

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Place of residence: Chernivtsi, Ukraine

Resent position: Head of Department of Biochemistry and Biotechnology, Yuriy Fedkovych Chernivtsi National University (Ukraine)

Profiles

<https://biochemistry.chnu.edu.ua/kolektyv-kafedry/voloshchuk-oksana-mykolaiivna/>

<https://scholar.google.com.ua/citations?user=l7UFSpAAAAAJ&hl=uk>

Research

ResearcherID: F-2764-2016

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RESEARCH AND TEACHING EXPERIENCE

2025-present - Head of Department of Biochemistry and Biotechnology, Yuriy Fedkovych Chernivtsi National University (CHNU), Chernivtsi, Ukraine

2009-2025 - Associate Professor of the Department of Biochemistry and Biotechnology, Yuriy Fedkovych Chernivtsi National University (CHNU), Chernivtsi, Ukraine

2008-2009 - Assistant lecturer of the Department of Biochemistry, Chernivtsi National University

2003-2008 - Postgraduate student, Chernivtsi National University

1997-2002 - Student, Chernivtsi National University

RESEARCH PROJECTS

The member (Team Leader) of the research group for the proposal “Targeting insect cytochrome P450 with natural inhibitors: a green strategy for malaria and other vector-borne disease control as a global health challenge.” (UNITA Starting Grants, 2025)

Biochemical and laser-polarimetric parameters of complex forecasting of metabolic disturbances program (No DR 0119U100717, 2019 - 2021)

Biochemical aspects of responsive integration of metabolism of essential nutrients (No DR 0115U003231, 2015 - 2017)

Biochemical substantiation of hepatoprotective and antitumor activity of essential lipophilic compounds (No DR 0112U002333, 2012 - 2014)

Metabolic correction of the consequences of low-dose radiation and tumor growth by nanobiotechnological drugs (No DR 0109U002246, 2009 - 2011)

Systemic impact of malignant neoplasms on the biochemical characteristics of organs of previously irradiated tumor carriers (No DR 0106U001452, 2006 - 2008).

Biochemical features of oncogenesis during irradiation and the use of antitumor complexes (No DR 0102U004994, 2003 – 2005)

TRAININGS

- participation in the Erasmus+ KA171 program (research internship at the University of Turin (Italy))
- Modern Teaching Approaches and New Research Methods in Biological Sciences (Stefan cel Mare University of Suceava, Romania, 2025) <https://biochemistry.chnu.edu.ua/media/2wtp3xbo/sertyfikat->

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- Participation in the project “Digital laboratories for students at risk – DigiLabStar III (funded by the German Academic Exchange Service (DAAD) under the support of the Federal Ministry of Education and Research (BMBF) as part of the program “Ukraine digital: Ensuring academic success in times of crisis (2025)”.

- Instrumental support for laboratory research (2022)
<https://biochemistry.chnu.edu.ua/media/rv2es3gg/sertyfykat-oksana-voloshchuk.pdf>

- Theoretical and practical skills in working on modern automatic biochemical analyzers of biological fluids (2021) <https://biochemistry.chnu.edu.ua/media/cnwhsxlx/voloshchuk.pdf>

- Internship at the Department of Biochemistry, Department of Microbiology and Immunology of the Institute of Biology and Medicine of Taras Shevchenko National University of Kyiv (2020).
<https://surl.li/kabcud>

LABORATORY METHODS (PROFICIENCY)

Biochemical and molecular biology methods: preparation of tissue and cell extracts, enzyme activity assays, measurement of contents of major metabolites, blood chemistry, and blood enzyme tests, urine analysis, ELISA assay, and spectrophotometric determination of major markers of oxidative stress.

OTHER ACTIVITIES

- Member of the competition committee, National Research Foundation of Ukraine (2025)
- Development of assignments and membership in the jury of the II and III stages of the All-Ukrainian Olympiad in “Biologie” (2018–2025);

- Jury member of the II stage of the All-Ukrainian Contest-Defense of research works of students - members of the National Center “Minor Academy of Sciences of Ukraine” (section “Biologie”) (2019– 2025);

- Supervision of research works of students, winners of the II and III stages of the All-Ukrainian Contest-Defense of research works of students - members of the National Center “Minor Academy of Sciences of Ukraine” (2020-2025).

- Supervision of the scientific work of the student, a winner of the all-Ukrainian contest of student research papers in the fields of knowledge and specialties

- Official reviewer (2) in one-time specialized academic councils for the defense of PhD theses submitted for the degree of Doctor of Philosophy (2020, 2024)

PUBLICATIONS

h-index in the SCOPUS database – 6

• Kopylchuk H., **Voloshchuk O.**, Pasailiuk M., Fontana N. (2025). Comparison of total amino acid composition and total protein content in five wild mushrooms. *Italian Journal of Mycology*, 54(1), 64–76.

• **Voloshchuk O.**, Kopylchuk H. (2025) Alimentary protein deficiency aggravates mitochondrial dysfunction in animals with acetaminophen-induced kidney injury. *Curr. Issues Pharm. Med. Sci.*, Vol. 38, No. 3, AOP.

• **Voloshchuk O.M.**, Kopylchuk H.P. (2024) Activity of polyol pathway enzymes in rat kidneys under conditions of different protein and sucrose supply in the diet. *Fiziol. Zh.*, 70(2), 51-58.

• Kopylchuk H., **Voloshchuk O.** (2024). Adenine nucleotide content and activity of AMP catabolism enzymes in the kidney of rats fed on diets with different protein and sucrose content. *Biologichni Studii*, 18(3), 57–68.

• Kopylchuk H.P., **Voloshchuk O.M.**, Pasailiuk M.V. (2023). Comparison of total amino acid compositions, total phenolic compounds, total flavonoid content, β -carotene content and hydroxyl radical scavenging activity in four wild edible mushrooms. *Italian Journal of Mycology*, 52, 112-125.

• Kopylchuk H.P., **Voloshchuk O.M.** (2023). Activity of the cytochrome part of the respiratory chain enzymes in the rat kidney mitochondria under the conditions of different nutrient content in a diet. *Ukr. Biochem. J.*, 95(1), 53-61.

• **Voloshchuk O.M.**, Ursatyy M.S., Kopylchuk G.P. (2022). The NADH-ubiquinone reductase and succinate dehydrogenase activity in the rat kidney mitochondria under the conditions of different protein and sucrose content in the diet. *Ukr. Biochem. J.*, 94(1), 105-113.

• **Voloshchuk O.M.**, Kopylchuk G.P. (2021). Indicators of the energy supply system in the liver of rats under the conditions of different nutrient content in a diet. *Biopolymers and Cel*, 37(3), 259-269.

• Kopylchuk H., Nikolaychuk I., **Voloshchuk O.**, Motrich A., Konovchuk O. (2021) Biochemical and

laser-polarimetric markers of hepatocyte cytolysis syndrome under conditions of toxic damage and protein deficiency. *Proc. SPIE 12126, Fifteenth International Conference on Correlation Optics, 121262B* (20 December 2021)

- Kopylchuk G.P., Grynenkiv Z.-M. I., **Voloshchuk O.M.** (2021) Cytochromes of mitochondria and activity of heme metabolism enzymes in the liver under different nutrient regimes. *Fiziol. Zh.*, 67(2), 37-43.

- Kopylchuk G.P., Ivanovich I.Y., **Voloshchuk O.M.** (2020) Peculiarities of ammonia metabolism in the liver of rats under the conditions of different nutrient content in a diet. *Ukr. Biochem. J.* 92 (4), 71-77.

Languages: Ukrainian – native; English, German – with a Dictionary

Personal qualities: sociability, responsibility, ability to work in a team, purposefulness, organizational skills, analytical and critical thinking, integrity, attentiveness, tolerance.