

**Інформація щодо можливості створення спеціалізованих вчених рад за ОНП
Біологія**

№ п/п	Прізвище, ім'я, по батькові	Кафедра	Посада, науковий ступінь, вчене звання	Назва публікації SCOPUS і Web of Science (за останні 5 років).	Рік публікації
1.	Лушак Володимир Іванович	Кафедра біохімії та біотехнології	Доктор біологічних наук, професор кафедри біохімії та біотехнології	<p>1. Bayliak, M. M., Gospodaryov, D. V., & Lushchak, V. I. (2023). Homeostasis of carbohydrates and reactive oxygen species is critically changed in the brain of middle-aged mice: Molecular mechanisms and functional reasons. <i>BBA advances</i>, 3, 100077. https://doi.org/10.1016/j.bbadv.2023.100077 (SCOPUS; Q3)</p> <p>2. Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Storey, K. B., & Lushchak, V. I. (2022). Metabolic syndrome: lessons from rodent and Drosophila models. <i>BioMed research international</i>, 2022, 5850507. https://doi.org/10.1155/2022/5850507 (SCOPUS; IF = 3.246; Q2)</p> <p>3. Strilbyska, O. M., Tsiumpala, S. A., Kozachyshyn, I. I., Strutynska, T., Burdyliuk, N., Lushchak, V. I., & Lushchak, O. (2022). The effects of low-toxic herbicide Roundup and glyphosate on mitochondria. <i>EXCLI journal</i>, 21, 183–196. https://doi.org/10.17179/excli2021-4478 (SCOPUS; IF = 4.022; Q1)</p> <p>4. Lenzen, S., Lushchak, V. I., & Scholz, F. (2022). The pro-radical hydrogen peroxide as a stable hydroxyl radical distributor: lessons from pancreatic beta cells. <i>Archives of toxicology</i>, 96(7), 1915–1920. https://doi.org/10.1007/s00204-022-03282-6 (SCOPUS; IF = 6.1; Q1)</p> <p>5. Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomiretska, I. Z., Klonovskyi, A. Y., Hrushchenko, A. O., Vataschuk, M. V., Mosiichuk, N. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2022). High stability of blood parameters during mouse lifespan: sex-specific effects of every-other-day fasting. <i>Biogerontology</i>, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x (SCOPUS; IF = 4.284; Q3)</p> <p>6. Kuzniak, O. V., Sorochynska, O. M., Bayliak, M. M., Klonovskyi, A. Y., Vasylyk, Y. V., Semchyshyn, H. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2022). Feeding to satiation induces mild oxidative/carbonyl stress in the brain of young mice. <i>EXCLI journal</i>, 21, 77–92. https://doi.org/10.17179/excli2021-4347 (SCOPUS; IF = 4.022; Q1)</p> <p>7. Bayliak, M. M., Vataschuk, M. V., Gospodaryov, D. V., Hurza, V. V., Demianchuk, O. I., Ivanochko, M. V., Burdyliuk, N. I., Storey, K. B., Lushchak, O., & Lushchak, V. I. (2022). High fat high fructose diet induces mild oxidative stress and reorganizes intermediary metabolism in male mouse liver: Alpha-ketoglutarate effects. <i>Biochimica et biophysica acta. General subjects</i>, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 (SCOPUS; IF = 4.117; Q1)</p>	<p>2023</p> <p>2022</p>

			<p>8. Bayliak, M. M., & Lushchak, V. I. (2021). Pleiotropic effects of alpha-ketoglutarate as a potential anti-ageing agent. <i>Ageing research reviews</i>, 66, 101237. https://doi.org/10.1016/j.arr.2020.101237 (SCOPUS; IF = 11.788; Q1)</p> <p>9. Bayliak, M. M., Dmytriv, T. R., Melnychuk, A. V., Strilets, N. V., Storey, K. B., & Lushchak, V. I. (2021). Chamomile as a potential remedy for obesity and metabolic syndrome. <i>EXCLI journal</i>, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 (SCOPUS; IF = 2.93; Q1)</p> <p>10. Lushchak, V. I., Duszenko, M., Gospodaryov, D. V., & Garaschuk, O. (2021). Oxidative stress and energy metabolism in the brain: midlife as a turning point. <i>Antioxidants</i> (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 (SCOPUS; IF = 7.675; Q2)</p> <p>11. Lushchak, V. I., & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. <i>EXCLI journal</i>, 20, 956–967. https://doi.org/10.17179/excli2021-3596 (SCOPUS; IF = 2.93; Q1)</p> <p>12. Lushchak, V. I., & Lushchak, O. (2021). Interplay between reactive oxygen and nitrogen species in living organisms. <i>Chemico-biological interactions</i>, 349, 109680. https://doi.org/10.1016/j.cbi.2021.109680 (SCOPUS; IF = 5.168; Q2)</p> <p>13. Lushchak V. I. (2021). Interplay between bioenergetics and oxidative stress at normal brain aging. Aging as a result of increasing disbalance in the system oxidative stress-energy provision. <i>Pflugers Archiv : European journal of physiology</i>, 473(5), 713–722. https://doi.org/10.1007/s00424-021-02531-4 (SCOPUS; IF = 4.458; Q1)</p> <p>14. Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Gospodaryov, D. V., Demianchuk, O. I., Vasylyk, Y. V., Mosiichuk, N. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2021). Middle age as a turning point in mouse cerebral cortex energy and redox metabolism: Modulation by every-other-day fasting. <i>Experimental gerontology</i>, 145, 111182. https://doi.org/10.1016/j.exger.2020.111182 (SCOPUS; IF = 4.253; Q2)</p> <p>15. Bayliak, M. M., Mosiichuk, N. M., Sorochynska, O. M., Kuzniak, O. V., Sishchuk, L. O., Hrushchenko, A. O., Semchuk, A. O., Pryimak, T. V., Vasylyk, Y. V., Gospodaryov, D. V., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2021). Middle aged turn point in parameters of oxidative stress and glucose catabolism in mouse cerebellum during lifespan: minor effects of every-other-day fasting. <i>Biogerontology</i>, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x (SCOPUS; IF = 4.284; Q2)</p>	<p>2021</p>
			<p>16. Sorochynska, O. M., Bayliak, M. M., Gospodaryov, D. V., Vasylyk, Y. V., Kuzniak, O. V., Pankiv, T. M., Garaschuk, O., Storey, K. B., & Lushchak, V. I. (2020). Corrigendum: every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. <i>Frontiers in physiology</i>, 11, 864. https://doi.org/10.3389/fphys.2020.00864 (SCOPUS; IF = 4.566; Q2)</p> <p>17. Bayliak, M. M., Demianchuk, O. I., Gospodaryov, D. V., Abrat, O. B., Lylyk, M. P., Storey, K. B., & Lushchak, V. I. (2020). Mutations in genes <i>cnc</i> or <i>dKeap1</i> modulate stress resistance and metabolic processes in <i>Drosophila melanogaster</i>. <i>Comparative biochemistry and physiology. Part A, Molecular & integrative physiology</i>, 248,</p>	<p>2020</p>

				110746. https://doi.org/10.1016/j.cbpa.2020.110746 (SCOPUS; IF = 2.3; Q1)	
				<p>18. Sorochynska, O. M., Bayliak, M. M., Gospodaryov, D. V., Vasylyk, Y. V., Kuzniak, O. V., Pankiv, T. M., Garaschuk, O., Storey, K. B., & Lushchak, V. I. (2019). Every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. <i>Frontiers in physiology</i>, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 (SCOPUS; IF = 3.367; Q2)</p> <p>19. Bayliak, M. M., Abrat, O. B., Storey, J. M., Storey, K. B., & Lushchak, V. I. (2019). Interplay between diet-induced obesity and oxidative stress: Comparison between <i>Drosophila</i> and mammals. <i>Comparative biochemistry and physiology. Part A, Molecular & integrative physiology</i>, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 (SCOPUS; IF = 2.353; Q2)</p> <p>20. Bayliak, M. M., Lylyk, M. P., Gospodaryov, D. V., Kotsyubynsky, V. O., Butenko, N. V., Storey, K. B., & Lushchak, V. I. (2019). Protective effects of alpha-ketoglutarate against aluminum toxicity in <i>Drosophila melanogaster</i>. <i>Comparative biochemistry and physiology. Toxicology & pharmacology : CBP</i>, 217, 41–53. https://doi.org/10.1016/j.cbpc.2018.11.020 (SCOPUS; IF= 2.897; Q2)</p>	2019

2.	Байляк Марія Михайлівна	Кафедра біохімії та біотехнології	Завідувач кафедри біохімії та біотехнології, доктор біологічних наук, професор кафедри біохімії та біотехнології	<ol style="list-style-type: none"> <li data-bbox="1019 188 2002 308">1. Bayliak, M. M., Gospodaryov, D. V., & Lushchak, V. I. (2023). Homeostasis of carbohydrates and reactive oxygen species is critically changed in the brain of middle-aged mice: Molecular mechanisms and functional reasons. <i>BBA advances</i>, 3, 100077. https://doi.org/10.1016/j.bbadv.2023.100077 (<i>SCOPUS</i>; <i>Q3</i>) <li data-bbox="1019 316 2002 435">2. Lushchak, O., Gospodaryov, D., Strilbytska, O., & Bayliak, M. (2023). Changing ROS, NAD and AMP: A path to longevity via mitochondrial therapeutics. <i>Advances in protein chemistry and structural biology</i>, 136, 157–196. https://doi.org/10.1016/bs.apcsb.2023.03.005 (<i>SCOPUS</i>; <i>IF= 5.447</i>; <i>Q1</i>) 	2023
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			<ol style="list-style-type: none"> 3. Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Storey, K. B., & Lushchak, V. I. (2022). Metabolic Syndrome: Lessons from Rodent and Drosophila Models. <i>BioMed research international</i>, 2022, 5850507. https://doi.org/10.1155/2022/5850507 (SCOPUS; IF= 3.246; Q2) 4. Bayliak, M. M., Demianchuk, O. I., Gospodaryov, D. V., Balatskyi, V. A., & Lushchak, V. I. (2022). Specific and combined effects of dietary ethanol and arginine on <i>Drosophila melanogaster</i>. <i>Drug and chemical toxicology</i>, 1–11. Advance online publication. https://doi.org/10.1080/01480545.2022.2105863 (SCOPUS; IF= 2.6; Q2) 5. Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomiretska, I. Z., Klonovskyi, A. Y., Hrushchenko, A. O., Vatashchuk, M. V., Mosiichuk, N. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2022). High stability of blood parameters during mouse lifespan: sex-specific effects of every-other-day fasting. <i>Biogerontology</i>, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x (SCOPUS; IF = 4.284; Q1) 6. Kuzniak, O. V., Sorochynska, O. M., Bayliak, M. M., Klonovskyi, A. Y., Vasylyk, Y. V., Semchyshyn, H. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2022). Feeding to satiation induces mild oxidative/carbonyl stress in the brain of young mice. <i>EXCLI journal</i>, 21, 77–92. https://doi.org/10.17179/excli2021-4347 (SCOPUS; IF = 4.022; Q1) 7. Semaniuk, U. V., Gospodaryov, D. V., Strilbytska, O. M., Kucharska, A. Z., Sokół-Łętowska, A., Burdyliuk, N. I., Storey, K. B., Bayliak, M. M., & Lushchak, O. (2022). Chili-supplemented food decreases glutathione-S-transferase activity in <i>Drosophila melanogaster</i> females without a change in other parameters of antioxidant system. <i>Redox report : communications in free radical research</i>, 27(1), 221–229. https://doi.org/10.1080/13510002.2022.2123884 (SCOPUS; IF = 3.8; Q2) 8. Bayliak, M. M., Vatashchuk, M. V., Gospodaryov, D. V., Hurza, V. V., Demianchuk, O. I., Ivanochko, M. V., Burdyliuk, N. I., Storey, K. B., Lushchak, O., & Lushchak, V. I. (2022). High fat high fructose diet induces mild oxidative stress and reorganizes intermediary metabolism in male mouse liver: Alpha-ketoglutarate effects. <i>Biochimica et biophysica acta. General subjects</i>, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 (SCOPUS; IF = 4.117; Q1) 9. Semaniuk, U. V., Gospodaryov, D. V., Strilbytska, O. M., Kucharska, A. Z., Sokół-Łętowska, A., Burdyliuk, N. I., Storey, K. B., Bayliak, M. M., & Lushchak, O. (2022). Chili pepper extends lifespan in a concentration-dependent manner and confers cold resistance on <i>Drosophila melanogaster</i> cohorts by influencing specific metabolic pathways. <i>Food & function</i>, 13(15), 8313–8328. https://doi.org/10.1039/d2fo00930g (SCOPUS; IF = 6.1; Q1) 	2022
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				<p>14. Sorochynska, O. M., Bayliak, M. M., Gospodaryov, D. V., Vasylyk, Y. V., Kuzniak, O. V., Pankiv, T. M., Garaschuk, O., Storey, K. B., & Lushchak, V. I. (2020). Corrigendum: every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. Frontiers in physiology, 11, 864. https://doi.org/10.3389/fphys.2020.00864 (SCOPUS; IF = 4.566; Q2)</p> <p>15. Bayliak, M. M., Demianchuk, O. I., Gospodaryov, D. V., Abrat, O. B., Lylyk, M. P., Storey, K. B., & Lushchak, V. I. (2020). Mutations in genes cnc or dKeap1 modulate stress resistance and metabolic processes in Drosophila melanogaster. Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 248, 110746. https://doi.org/10.1016/j.cbpa.2020.110746 (SCOPUS; IF = 2.3; Q1)</p>	2020

				<p>16. Bayliak, M. M., Abrat, O. B., Storey, J. M., Storey, K. B., & Lushchak, V. I. (2019). Interplay between diet-induced obesity and oxidative stress: Comparison between <i>Drosophila</i> and mammals. <i>Comparative biochemistry and physiology. Part A, Molecular & integrative physiology</i>, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 (SCOPUS; IF = 2.353; Q2)</p> <p>17. Bayliak, M. M., Lylyk, M. P., Gospodaryov, D. V., Kotsyubynsky, V. O., Butenko, N. V., Storey, K. B., & Lushchak, V. I. (2019). Protective effects of alpha-ketoglutarate against aluminum toxicity in <i>Drosophila melanogaster</i>. <i>Comparative biochemistry and physiology. Toxicology & pharmacology : CBP</i>, 217, 41–53. https://doi.org/10.1016/j.cbpc.2018.11.020 (SCOPUS; IF= 2.897; Q2)</p> <p>18. Sorochnytska, O. M., Bayliak, M. M., Gospodaryov, D. V., Vasylyk, Y. V., Kuzniak, O. V., Pankiv, T. M., Garaschuk, O., Storey, K. B., & Lushchak, V. I. (2019). Every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. <i>Frontiers in physiology</i>, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 (SCOPUS; IF = 3.367; Q2)</p>	2019
3.	Семчишин Галина Миколаївна	Кафедра біохімії та біотехнології	Доктор біологічних наук, професор кафедри біохімії та біотехнології	<p>1. Kuzniak, O. V., Sorochnytska, O. M., Bayliak, M. M., Klonovskyi, A. Y., Vasylyk, Y. V., Semchyshyn, H. M., Storey, K. B., Garaschuk, O., & Lushchak, V. I. (2022). Feeding to satiation induces mild oxidative/carbonyl stress in the brain of young mice. <i>EXCLI journal</i>, 21, 77–92. https://doi.org/10.17179/excli2021-4347 (SCOPUS; IF = 4.022; Q1)</p>	2022

			<p>2. Semchyshyn H. (2021). Is carbonyl/AGE/RAGE stress a hallmark of the brain aging?. <i>Pflugers Archiv : European journal of physiology</i>, 473(5), 723–734. https://doi.org/10.1007/s00424-021-02529-y (SCOPUS; IF = 3.657; Q1)</p> <p>3. Petriv, N., Neubert, L., Vatashchuk, M., Timrott, K., Suo, H., Hochnadel, I., Huber, R., Petzold, C., Hrushchenko, A., Yatsenko, A. S., Shcherbata, H. R., Wedemeyer, H., Lichtinghagen, R., Falfushynska, H., Lushchak, V., Manns, M. P., Bantel, H., Semchyshyn, H., & Yevsa, T. (2021). Increase of α-dicarbonyls in liver and receptor for advanced glycation end products on immune cells are linked to nonalcoholic fatty liver disease and liver cancer. <i>Oncoimmunology</i>, 10(1), 1874159. https://doi.org/10.1080/2162402X.2021.1874159 (SCOPUS; IF = 7.723; Q1)</p>	2021
			<p>4. Semchyshyn H. (2020). Reactive carbonyls induce TOR- and carbohydrate-dependent hormetic response in Yeast. <i>TheScientificWorldJournal</i>, 2020, 4275194. https://doi.org/10.1155/2020/4275194 (SCOPUS; Q2)</p>	2020

