Відповідність наукових праць наукових керівників кафедри біохімії та біотехнології темам дисертацій здобувачів наукового ступеня доктора філософії за ОНП Біохімія

№ п/ п	ПІП аспіранта	Рік вступу, форма навчання	Тема дисертації	ПІБ наукового керівника, науковий ступінь, вчене звання, посада	Перелік наукових праць наукового керівника, що відповідають темі дисертації (за останні п'ять років)
1.	**Ватащук Мирослава Володимирівна**	2020, денна форма навчання	Вплив альфа-кетоглютарату на вільнорадикальні та імунологічні параметри у мишей	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри біохімії та біотехнології	**2024** *1.* Demianchuk, O., Vatashchuk, M., Gospodaryov, D., Hurza, V., Ivanochko, M., Derkachov, V., Berezovskyi, V., Lushchak, O., Storey, K. B., Bayliak, M., & Lushchak, V. I. (2024). High-fat high-fructose diet and alpha-ketoglutarate affect mouse behavior that is accompanied by changes in oxidative stress response and energy metabolism in the cerebral cortex. *Biochimica et biophysica acta. General subjects*, *1868*(1), 130521. https://doi.org/10.1016/j.bbagen.2023.130521 *(SCOPUS; IF = 4.117; Q1)* **2023** *2.* Lushchak, V. I., Covasa, M., Abrat, O. B., Mykytyn, T. V., Tverdokhlib, I. Z., Storey, K. B., & Semchyshyn, H. (2023). Risks of obesity and diabetes development in the population of the Ivano-Frankivsk region in Ukraine. *EXCLI journal*, *22*, 1047–1054. https://doi.org/10.17179/excli2023-6296 *(SCOPUS; IF = 4.022; Q1)* *3.* Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Demianchuk, O. I., Gospodaryov, D. V., & Lushchak, V. I. (2023). Alpha-ketoglutarate partially alleviates effects of high-fat high-fructose diet in mouse muscle. *EXCLI Journal*, *22*, 1264–1277. https://doi.org/10.17179/excli2023-6608 *(SCOPUS; IF = 4.022; Q1)* *4.* 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. BBA advances, 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *5.* Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Storey, K. B., & **Lushchak, V. I.** (2022). Metabolic syndrome: lessons from rodent and Drosophila models. BioMed research international, 2022, 5850507. https://doi.org/10.1155/2022/5850507 *(SCOPUS; IF = 3.246; Q2)* *6.* Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomyretska, 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. Biogerontology, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)* *7.* 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. EXCLI journal, 21, 77–92. https://doi.org/10.17179/excli2021-4347 *(SCOPUS; IF = 4.022; Q1)* *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. Biochimica et biophysica acta. General subjects, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 *(SCOPUS; IF = 4.117; Q2)* **2021** *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. EXCLI journal, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* *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. Antioxidants (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 *(SCOPUS; IF = 7.675; Q2)* *11.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. https://doi.org/10.17179/excli2021-3596 *(SCOPUS; IF = 2.93; Q1)* *12.* **Lushchak, V. I.**, & Lushchak, O. (2021). Interplay between reactive oxygen and nitrogen species in living organisms. Chemico-biological interactions, 349, 109680. https://doi.org/10.1016/j.cbi.2021.109680 *(SCOPUS; IF = 5.168; Q2)* *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. Pflugers Archiv : European journal of physiology, 473(5), 713–722. https://doi.org/10.1007/s00424-021-02531-4 *(SCOPUS; IF = 4.458; Q1)* *14.* 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. Biogerontology, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x*(SCOPUS; IF = 4.284; Q2)* **2020** *15.* Bayliak, M. M., & **Lushchak, V. I.** (2020). Pleiotropic effects of alpha-ketoglutarate as a potential anti-ageing agent. Ageing research reviews, 66, 101237. https://doi.org/10.1016/j.arr.2020.101237 *(SCOPUS; IF = 10.895; Q1)* *16.* 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.** (2020). Middle age as a turning point in mouse cerebral cortex energy and redox metabolism: Modulation by every-other-day fasting. Experimental gerontology, 145, 111182. https://doi.org/10.1016/j.exger.2020.111182 *(SCOPUS; IF = 4.032; Q2)* *17.* 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)* **2019** *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. Frontiers in physiology, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 *(SCOPUS; IF = 3.367; Q2)* *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 Drosophila and mammals. Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)* *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 Drosophila melanogaster. Comparative biochemistry and physiology. Toxicology & pharmacology : CBP, 217, 41–53. https://doi.org/10.1016/j.cbpc.2018.11.020 *(SCOPUS; IF = 2.897;*

					Q2)
2.	**Гурза Вікторія Володимирівна**	2020, денна форма навчання	Вплив різних типів дієт на енергетичний метаболізм мишей	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри біохімії та біотехнології	**2024** **1.** Demianchuk, O., Vatashchuk, M., Gospodaryov, D., Hurza, V., Ivanochko, M., Derkachov, V., ... & **Lushchak, V. I**. (2024). High-fat high-fructose diet and alpha-ketoglutarate affect mouse behavior that is accompanied by changes in oxidative stress response and energy metabolism in the cerebral cortex. *Biochimica et Biophysica Acta (BBA)-General Subjects*, *1868*(1), 130521. https://doi.org/10.1016/j.bbagen.2023.130521 *(SCOPUS; IF = 4.117; Q1)* **2023** **1.** **Lushchak, V. I.**, Covasa, M., Abrat, O. B., Mykytyn, T. V., Tverdokhlib, I. Z., Storey, K. B., & Semchyshyn, H. (2023). Risks of obesity and diabetes development in the population of the Ivano-Frankivsk region in Ukraine. *EXCLI journal*, *22*, 1047. https://doi.org/10.17179/excli2023-6296 *(SCOPUS; IF = 4.022; Q1)* **2.** 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. BBA advances, 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *1.* Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Storey, K. B., & **Lushchak, V. I.** (2022). Metabolic syndrome: lessons from rodent and Drosophila models. BioMed research international, 2022, 5850507. https://doi.org/10.1155/2022/5850507 *(SCOPUS; IF = 3.246; Q2)* *2.* Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomyretska, 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. Biogerontology, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)* *3.* 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. Biochimica et biophysica acta. General subjects, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 *(SCOPUS; IF = 4.117; Q2)* **2021** *4.* 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. EXCLI journal, 20, 1261–

					1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* *5.* **Lushchak, V. I.**, Duszenko, M., Gospodaryov, D. V., & Garaschuk, O. (2021). Oxidative Stress and Energy Metabolism in the Brain: Midlife as a Turning Point. Antioxidants (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 *(SCOPUS; IF = 7.675; Q2)* *6.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. *7.* **Lushchak, V. I.**, Duszenko, M., Gospodaryov, D. V., & Garaschuk, O. (2021). Oxidative Stress and Energy Metabolism in the Brain: Midlife as a Turning Point. Antioxidants (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 *(SCOPUS; IF = 7.675; Q2)* *8.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. https://doi.org/10.17179/excli2021-3596 *(SCOPUS; IF = 2.93; Q1)* *9.* **Lushchak, V. I.**, & Lushchak, O. (2021). Interplay between reactive oxygen and nitrogen species in living organisms. Chemico-biological interactions, 349, 109680. https://doi.org/10.1016/j.cbi.2021.109680 *(SCOPUS; IF = 5.168; Q2)* *10.* 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. Biogerontology, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x*(SCOPUS; IF = 4.284; Q2)* *11.* Sorochynska, O. M., Kuzniak, O. V., Bayliak, M. M., Vasylyk, Y. V., Storey, K. B., & **Lushchak, V. I**. (2021). Every-other-day fasting reduces glycolytic capability in the skeletal muscle of young mice. *Biologia*, *76*, 1627-1634. https://doi.org/10.1007/s11756-021-00717-w **2020** *12.* 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.** (2020). Middle age as a turning point in mouse cerebral cortex energy and redox metabolism: Modulation by every-other-day fasting. Experimental gerontology, 145, 111182. https://doi.org/10.1016/j.exger.2020.111182 *(SCOPUS; IF = 4.032; Q2)* *13.* 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)* **2019** *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.** (2019). Every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. Frontiers in physiology, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 *(SCOPUS; IF = 3.367; Q2)* *15.* 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 Drosophila and mammals. Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)*
3.	**Дем’янчук Олег Ігорович**	2021, денна форма навчання	Вплив альфа-кетоглютарату на фізіолого-біохімічні показники плодової мушки	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри біохімії та біотехнології	**2024** *1.* Demianchuk, O., Vatashchuk, M., Gospodaryov, D., Hurza, V., Ivanochko, M., Derkachov, V., Berezovskyi, V., Lushchak, O., Storey, K. B., Bayliak, M., & **Lushchak, V. I.** (2024). High-fat high-fructose diet and alpha-ketoglutarate affect mouse behavior that is accompanied by changes in oxidative stress response and energy metabolism in the cerebral cortex. *Biochimica et biophysica acta. General subjects, 1868*(1), 130521. https://doi.org/10.1016/j.bbagen.2023.130521 *(SCOPUS; IF = 4.117; Q1)* ***2023*** *2.* **Lushchak, V. I.**, Covasa, M., Abrat, O. B., Mykytyn, T. V., Tverdokhlib, I. Z., Storey, K. B., & Semchyshyn, H. (2023). Risks of obesity and diabetes development in the population of the Ivano-Frankivsk region in Ukraine. EXCLI journal, 22, 1047. *3.* Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Demianchuk, O. I., Gospodaryov, D. V., & **Lushchak, V. I.** (2023). Alpha-ketoglutarate partially alleviates effects of high-fat high-fructose diet in mouse muscle. EXCLI Journal, 22, 1264–1277. https://doi.org/10.17179/excli2023-6608 (SCOPUS; IF = 4.022; Q1) *4.* 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. BBA advances, 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *5.* Vatashchuk, M. V., Bayliak, M. M., Hurza, V. V., Storey, K. B., & **Lushchak, V. I.** (2022). Metabolic syndrome: lessons from rodent and Drosophila models. BioMed research international, 2022, 5850507.

					https://doi.org/10.1155/2022/5850507 *(SCOPUS; IF = 3.246; Q2)* *6.* Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomyretska, 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. Biogerontology, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)* *7.* 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. EXCLI journal, 21, 77–92. https://doi.org/10.17179/excli2021-4347 *(SCOPUS; IF = 4.022; Q1)* *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. Biochimica et biophysica acta. General subjects, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 *(SCOPUS; IF = 4.117; Q2)* **2021** *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. EXCLI journal, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* *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. Antioxidants (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 *(SCOPUS; IF = 7.675; Q2)* *11.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. https://doi.org/10.17179/excli2021-3596 *(SCOPUS; IF = 2.93; Q1)* *12.* **Lushchak, V. I.**, & Lushchak, O. (2021). Interplay between reactive oxygen and nitrogen species in living organisms. Chemico-biological interactions, 349, 109680. https://doi.org/10.1016/j.cbi.2021.109680 *(SCOPUS; IF = 5.168; Q2)* *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. Pflugers Archiv :

					European journal of physiology, 473(5), 713–722. https://doi.org/10.1007/s00424-021-02531-4 *(SCOPUS; IF = 4.458; Q1)* *14.* 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. Biogerontology, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x*(SCOPUS; IF = 4.284; Q2)* **2020** *15.* Bayliak, M. M., & **Lushchak, V. I.** (2020). Pleiotropic effects of alpha-ketoglutarate as a potential anti-ageing agent. Ageing research reviews, 66, 101237. https://doi.org/10.1016/j.arr.2020.101237 *(SCOPUS; IF = 10.895; Q1)* *16.* 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.** (2020). Middle age as a turning point in mouse cerebral cortex energy and redox metabolism: Modulation by every-other-day fasting. Experimental gerontology, 145, 111182. https://doi.org/10.1016/j.exger.2020.111182 *(SCOPUS; IF = 4.032; Q2)* *17.* 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)* **2019** *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. Frontiers in physiology, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 *(SCOPUS; IF = 3.367; Q2)* *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 Drosophila and mammals. Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)* *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 Drosophila melanogaster. Comparative biochemistry and physiology. Toxicology & pharmacology : CBP, 217, 41–53. https://doi.org/10.1016/j.cbpc.2018.11.020 *(SCOPUS; IF= 2.897; Q2)*
4.	**Іваночко Мар'ян Васильович**	2022, денна форма навчання	Вплив проростків броколі на енергетичний статус мишей на тлі споживання кафетерійної дієти	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри біохімії та біотехнології	**2023** *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. BBA Adv., 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *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. Biomed Res Int., 2022, 5850507. https://doi.org/10.1155/2022/5850507 *(SCOPUS; IF = 3.246; Q2)* *3.* Bayliak, M.M., Sorochynska, O.M., Kuzniak, O.V., Drohomyretska, 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. Biogerontology, 23(5), 559-570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)* *4.* Kuzniak, O.V., Sorochynska, O.M., Bayliak, M.M., Klonovskyi, A.Ya., 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. EXCLI J., 21, 77-92. https://doi.org/10.17179/excli2021-4347 *(SCOPUS; IF = 4.022; Q1)* *5.* 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.V., **Lushchak, V.I**. (2022). High fat high fructose diet induces mild oxidative stress and reorganizes intermediary metabolism in male mouse liver: Alpha-ketoglutarate effects. Biochim Biophys Acta Gen Subj., 1866 (12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 (SCOPUS; IF = 4.117; Q2) **2021** *6.* 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. EXCLI J., 20, 1261-1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* **2020** *7.* 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. Front Physiol.,11, 864. https://doi.org/10.3389/fphys.2020.00864 *(SCOPUS; IF = 4.755; Q2)* **2019** *8.* 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 Drosophila and mammals. Comp Biochem Physiol A Mol Integr Physiol., 228,18-28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)* *9.* Sorochynska, O.M., Bayliak, M.M., Vasylyk, Y.V., Kuzniak, O.V., Drohomyretska, I.Z., Klonovskyi, A. Ya., Storey, J.M., Storey, K.B., **Lushchak, V.I**. (2019). Intermittent fasting causes metabolic stress and leucopenia in young mice. Ukrainian Biochemical Journal, 91(1), 53–64. https://doi.org/10.15407/ubj91.01.053 (*SCOPUS; IF = 1.3; Q4)*
5.	**Балацький Віталій Андрійович**	2022, денна форма навчання	Взаємозв’язок між оксидативним стресом, енергетичним статусом і запаленням у мишиній моделі посттравматичного стресового розладу	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри біохімії та біотехнології	**2024** *1.* Demianchuk, O., Vatashchuk, M., Gospodaryov, D., Hurza, V., Ivanochko, M., Derkachov, V., Berezovskyi, V., Lushchak, O., Storey, K. B., Bayliak, M., & Lushchak, V. I. (2024). High-fat high-fructose diet and alpha-ketoglutarate affect mouse behavior that is accompanied by changes in oxidative stress response and energy metabolism in the cerebral cortex. Biochimica et biophysica acta. General subjects, 1868(1), 130521. https://doi.org/10.1016/j.bbagen.2023.130521 *(SCOPUS; IF = 4.117; Q1)* **2023** *2.* Pinna, G., Kmita, H., & Lushchak, V. I. (2023). Editorial: Role of mitochondria in post-traumatic stress disorder (PTSD). Frontiers in physiology, 14, 1341204. https://doi.org/10.3389/fphys.2023.1341204 *(SCOPUS; IF = 4.755; Q1)* *3.* Kmita, H., Pinna, G., & Lushchak, V. I. (2023). Potential oxidative stress related targets of mitochondria-focused therapy of PTSD. Frontiers in physiology, 14, 1266575. https://doi.org/10.3389/fphys.2023.1266575 *(SCOPUS; IF = 4.755; Q1)* *4.* Dmytriv, T. R., Tsiumpala, S. A., Semchyshyn, H. M., Storey, K. B., & Lushchak, V. I. (2023). Mitochondrial dysfunction as a possible trigger of neuroinflammation at post-traumatic stress

					disorder (PTSD). Frontiers in physiology, 14, 1222826. https://doi.org/10.3389/fphys.2023.1222826 *(SCOPUS; IF = 4.755; Q1)* *5.* 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. BBA advances, 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *6.* Bayliak, M. M., Sorochynska, O. M., Kuzniak, O. V., Drohomyretska, 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. Biogerontology, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)* *7.* 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. EXCLI journal, 21, 77–92. https://doi.org/10.17179/excli2021-4347 *(SCOPUS; IF = 4.022; Q1)* *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. Biochimica et biophysica acta. General subjects, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 *(SCOPUS; IF = 4.117; Q2)* **2021** *9.* **Lushchak, V. I.**, Duszenko, M., Gospodaryov, D. V., & Garaschuk, O. (2021). Oxidative Stress and Energy Metabolism in the Brain: Midlife as a Turning Point. Antioxidants (Basel, Switzerland), 10(11), 1715. https://doi.org/10.3390/antiox10111715 *(SCOPUS; IF = 7.675; Q2)* *10.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. https://doi.org/10.17179/excli2021-3596 *(SCOPUS; IF = 2.93; Q1)* *11.* **Lushchak, V. I.**, & Lushchak, O. (2021). Interplay between reactive oxygen and nitrogen species in living organisms. Chemico-biological interactions, 349, 109680.

					https://doi.org/10.1016/j.cbi.2021.109680 *(SCOPUS; IF = 5.168; Q2)* *12.* **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. Pflugers Archiv : European journal of physiology, 473(5), 713–722. https://doi.org/10.1007/s00424-021-02531-4 *(SCOPUS; IF = 4.458; Q1)* *13.* 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. Biogerontology, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x*(SCOPUS; IF = 4.284; Q2)* **2020** *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.** (2020). Middle age as a turning point in mouse cerebral cortex energy and redox metabolism: Modulation by every-other-day fasting. Experimental gerontology, 145, 111182. https://doi.org/10.1016/j.exger.2020.111182 *(SCOPUS; IF = 4.032; Q2)* *15.* 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)* **2019** *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.** (2019). Every-other-day feeding decreases glycolytic and mitochondrial energy-producing potentials in the brain and liver of young mice. Frontiers in physiology, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 *(SCOPUS; IF = 3.367; Q2)* *17.* 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 Drosophila and mammals.

					Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)*
6	**Стефанишин Надія Петрівна**	2021, денна форма навчання	Вплив ферулової кислоти на фізіолого-біохімічні показники плодової мушки	Лущак Олег Володимирович к.б.н., доц. кафедри біохімії та біотехнології	**2023** *1.* **Lushchak, O.**, Strilbytska, O., Storey, K.B. (2023). Gender-specific effects of pro-longevity interventions in Drosophila. Mech. Ageing Dev., 209, 111754. https://doi.org/10.1016/j.mad.2022.111754. (*SCOPUS; IF = 5.498; Q2)* **2021** *2.* Lushchak, V., **Lushchak, O.** (2021). Interplay between reactive oxygen and nitrogen species in living organisms. Chem-Biol. Interact., 349, 109680. https://doi: 10.1016/j.cbi.2021.109680. (*SCOPUS; IF = 5.168; Q1)* *3.* Strilbytska, O., Stefanyshyn, N., Semaniuk, U., **Lushchak, O.** (2021). Yeast concentration in the diet defines Drosophila metabolism of both parental and offspring generations. Ukr Biochem J., 93(6), 119-129. https://doi.org/10.15407/ubj93.06.119 (*SCOPUS; IF = 1.3; Q4)* *4.* Vaiserman, A., Koliada, A., **Lushchak, O.** (2021). Phyto-nanotechnology in anti-aging medicine. Aging (Albany NY)., 13(8): 10818–10820. https://doi: 10.18632/aging.203026 (*SCOPUS; IF = 5.955; Q2)* *5.* Heier, C., Klishch , S., Stilbytska, O., Semaniuk, U., **Lushchak, O**. (2021). The *Drosophila* model to interrogate triacylglycerol biology. Biochim. Biophys. Acta Mol. Cell. Biol. Lipids., 1866(6), 158924. https://10.1016/j.bbalip.2021.158924. (*SCOPUS; IF = 5.228; Q2)* **2020** *6.* Strilbytska, O., Storey, K., **Lushchak, O**. (2020) TOR signaling inhibition in intestinal stem and progenitor cells affects physiology and metabolism in *Drosophila*. Comp. Biochem. Physiol. B., 2020, 110424, 243-244. https://doi:10.1016/j.cbpb.2020.110424 (*SCOPUS; IF = 2.34; Q3)* *7.* Gospodaryov, D., Strilbytska, O., Semaniuk, U., Perkhulyn, N., Rovenko, B., Yurkevych, I., Barata, A.G., Dick, T.P., **Lushchak, O**., Jacobs, H.T. (2020). Alternative NADH dehydrogenase extends lifespan and increases resistance to xenobiotics in *Drosophila*. Biogerontology, 21,155-171. https://doi: 10.1007/s10522-019-09849-8 (*SCOPUS; IF = 4.8; Q2)* *8.* Vaiserman, A., Koliada, A., **Lushchak, O**., Castillo M. (2020). Repurposing drugs to fight aging: The difficult path from bench to bedside. Med. Res. Rev. https://doi: 10.1002/med.21773. (*SCOPUS; IF = 12.39; Q1)*

					2019 *9.* Michels, B., Zwaka, H., Bartels, R., **Lushchak, O**., Franke, K., Endres T., Fendt, M., Song, I., Bakr, M., Budragchaa, T., Westermann, B., Mishra, D., Eschbach, C., Schreyer, S., Lingnau, A., Vahl, C., Hilker, M., Menzel, R., Kähne, T., Leßmann, V., Dityatev, A., Wessjohann, L., Gerber, B. (2019). Memory enhancement by ferulic acid ester across species. Sci. Adv., 4, eaat6994. https://doi:10.1126/sciadv.aat6994 (*SCOPUS; IF = 15.1; Q1)* *10.* Gubina, N., Naudi, A., Stefanatos, R., Jove, M., Scialo, F., Fernandez-Ayala, D., Rantapero, T., Yurkevych, I., Portero-Otin, M., Nykter, M., **Lushchak, O**., Navas, P., Pamplona, R., Sanz, A. (2019). Essential physiological differences characterize short and long-lived strains of *Drosophila* melanogaster. J Gerontol., 74, 1835-1843. https://doi:10.1093/gerona/gly143 (*SCOPUS; IF = 6.591; Q1)* *11.* Piskovatska, V., Strilbytska, O., Koliada, A., Vaiserman, A., **Lushchak, O**. (2019). Health Benefits of Anti-aging Drugs. Subcell. Biochem., 91, 339-392. https://doi:10.1007/978-981-13-3681-2_13 (*SCOPUS; IF = 4.30; Q1)*
7.	**Деркачов Віталій Павлович**	2023, денна форма навчання	Оцінка ефективності адаптогенів на фоні експериментального ожиріння, асоційованого з посттравматичним стресовим розладом	Байляк Марія Михайлівна проф., к.б.н., доц. кафедри біохімії та біотехнології, проф.	**2024** 1. Demianchuk, O., Vatashchuk, M., Gospodaryov, D., Hurza, V., Ivanochko, M., Derkachov, V., Berezovskyi, V., Lushchak, O., Storey, K. B., **Bayliak, M.,** & Lushchak, V. I. (2024). High-fat high-fructose diet and alpha-ketoglutarate affect mouse behavior that is accompanied by changes in oxidative stress response and energy metabolism in the cerebral cortex. Biochimica et biophysica acta. General subjects, 1868(1), 130521. https://doi.org/10.1016/j.bbagen.2023.130521 *(SCOPUS; IF = 4.117; Q1)* ***2023*** 2. Vatashchuk, M. V., **Bayliak, M. M.,** Hurza, V. V., Demianchuk, O. I., Gospodaryov, D. V., & Lushchak, V. I. (2023). Alpha-ketoglutarate partially alleviates effects of high-fat high-fructose diet in mouse muscle. EXCLI Journal, 22, 1264–1277. https://doi.org/10.17179/excli2023-6608 (SCOPUS; IF = 4.022; Q1) 3. **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. BBA advances, 3, 100077.

https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)*

2022

4. Vatashchuk, M. V., **Bayliak, M. M.**, Hurza, V. V., Storey, K. B., & Lushchak, V. I. (2022). Metabolic syndrome: lessons from rodent and Drosophila models. BioMed research international, 2022, 5850507. https://doi.org/10.1155/2022/5850507 *(SCOPUS; IF = 3.246; Q2)*
5. **Bayliak, M. M.**, Sorochynska, O. M., Kuzniak, O. V., Drohomyretska, 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. Biogerontology, 23(5), 559–570. https://doi.org/10.1007/s10522-022-09982-x *(SCOPUS; IF = 4.284; Q3)*
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. EXCLI journal, 21, 77–92. https://doi.org/10.17179/excli2021-4347 *(SCOPUS; IF = 4.022; Q1)*
7. **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. Biochimica et biophysica acta. General subjects, 1866(12), 130226. https://doi.org/10.1016/j.bbagen.2022.130226 *(SCOPUS; IF = 4.117; Q2)*

2021

8. **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. EXCLI journal, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)*
9. **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. Biogerontology, 22(3), 315–328. https://doi.org/10.1007/s10522-021-09918-x*(SCOPUS; IF = 4.284;*

					Q2) **2020** 10. 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)* **2019** 11. 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. Frontiers in physiology, 10, 1432. https://doi.org/10.3389/fphys.2019.01432 *(SCOPUS; IF = 3.367; Q2)* 12. **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 Drosophila and mammals. Comparative biochemistry and physiology. Part A, Molecular & integrative physiology, 228, 18–28. https://doi.org/10.1016/j.cbpa.2018.09.027 *(SCOPUS; IF = 2.353; Q2)*
8.	**Березовський Владислав Васильович**	2023, денна форма навчання	Вплив дієти на чутливість до стресових факторів і відновлення від стресу	Лущак Олег Володимирович к.б.н., доц. кафедри біохімії та біотехнології	**2022** 1. Strilbytska O, Semaniuk U, Bubalo V, Storey KB, **Lushchak O**. Dietary Choice Reshapes Metabolism in *Drosophila* by Affecting Consumption of Macronutrients. Biomolecules. 2022 Aug 30;12(9):1201. doi: 10.3390/biom12091201 2. O. M. Strilbytska, U. V. Semaniuk, N. I. Burdyliyk, V. Bubalo, **O. V. Lushchak**. Developmental diet defines metabolic traits in larvae and adult Drosophila. Ukr.Biochem.J. 2022; Volume 94, Issue 1, Jan-Feb, pp. 53-63 doi: https://doi.org/10.15407/ubj94.01.053 3. O. M. Strilbytska, U. V. Semaniuk, N. I. Burdyliuk, **O. V. Lushchak**. Protein content in the parental diet affects cold tolerance and antioxidant system state in the offspring Drosophila. Ukr.Biochem.J. 2022; Volume 94, Issue 1, Jan-Feb, pp. 86-94 doi: https://doi.org/10.15407/ubj94.01.086 4. Strilbytska O, Strutynska T, Semaniuk U, Burdyliyk N, Bubalo V, Lushchak O. Dietary Sucrose Determines Stress Resistance, Oxidative Damages, and Antioxidant Defense System in Drosophila. Scientifica (Cairo). 2022 May 2;2022:7262342. doi: 10.1155/2022/7262342. **2021** 5. O. M. Strilbytska1, N. P. Stefanyshyn,U. V. Semaniuk, **O. V.**

					Lushchak. Yeast concentration in the diet defines Drosophila metabolism of both parental and offspring generations. Ukr.Biochem.J. 2021; Volume 93, Issue 6, Nov-Dec, pp. 119-129 doi: https://doi.org/10.15407/ubj93.06.119 6. O. Strilbytska, A. Zayachkivska, T. Strutynska, U. Semaniuk, A. Vaiserman, **O. Lushchak**. Dietary protein defines stress resistance, oxidative damages and antioxidant defense system in Drosophila melanogaster. Ukr.Biochem.J. 2021; Volume 93, Issue 5, Sep-Oct, pp. 90-101 doi: https://doi.org/10.15407/ubj93.05.090 7. Strilbytska, O.M., Strutynska, T.R., Semaniuk, U.V., Burdyliuk, N.I., Storey, K.B. and **Lushchak, O.V.** (2021), Parental dietary sucrose affects metabolic and antioxidant enzyme activities in Drosophila. Entomological Science, 24: 270-280. https://doi.org/10.1111/ens.12479 8. Semaniuk U, Gospodaryov D, Mishchanyn K, Storey K, **Lushchak O**. Drosophila insulin-like peptides regulate concentration-dependent changes of appetite to different carbohydrates. Zoology (Jena). 2021 Jun;146:125927. doi: 10.1016/j.zool.2021.125927 9. Heier C, Klishch S, Stilbytska O, Semaniuk U, **Lushchak O**. The Drosophila model to interrogate triacylglycerol biology. Biochim Biophys Acta Mol Cell Biol Lipids. 2021 Jun;1866(6):158924. doi: 10.1016/j.bbalip.2021.158924 **2020** 10. Olha Strilbytska, Vira Velianyk, Nadia Burdyliuk, Ihor S. Yurkevych, Alexander Vaiserman, Kenneth B. Storey, Andrew Pospisilik, **Oleh Lushchak**, Parental dietary protein-to-carbohydrate ratio affects offspring lifespan and metabolism in drosophila, Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, Volume 241, 2020, 110622, ISSN 1095-6433, https://doi.org/10.1016/j.cbpa.2019.110622. 11. Yurkevych IS, Gray LJ, Gospodaryov DV, Burdylyuk NI, Storey KB, Simpson SJ, **Lushchak O**. Development of fly tolerance to consuming a high-protein diet requires physiological, metabolic and transcriptional changes. Biogerontology. 2020 Oct;21(5):619-636. doi: 10.1007/s10522-020-09880-0 12. O. Strilbytska, T. Strutynska, U. Semaniuk, N. Burdyliyk, O. Lushchak. Dietary sucrose defines lifespan and metabolism in Drosophila. Ukr.Biochem.J. 2020; Volume 92, Issue 5, Sep-Oct, pp. 97-105 doi: https://doi.org/10.15407/ubj92.05.097 13. Strilbytska OM, Storey KB, Lushchak OV. TOR signaling inhibition in intestinal stem and progenitor cells affects physiology and metabolism in Drosophila. Comp Biochem Physiol B Biochem Mol Biol. 2020 Jun;243-244:110424. doi: 10.1016/j.cbpb.2020