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	**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 advances, 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 research international, 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. 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)* *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., & **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** *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 journal, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* *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.* **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)* *11.* 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** *12.* 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)* *13.* 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)* *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)* **2019** *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.** (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)* *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 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)* *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 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	**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 advances, 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 research international, 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.* 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** *5.* 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)* *6.* **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)* *7.* **Lushchak, V. I.**, & Storey, K. B. (2021). Oxidative stress concept updated: Definitions, classifications, and regulatory pathways implicated. EXCLI journal, 20, 956–967. *8.* **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)* *9.* **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)* *10.* **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)* *11.* 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)* *12.* 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** *13.* 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)* *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)* **2019** *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.** (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)* *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 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	**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 advances, 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 research international, 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.

					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)* *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., & **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** *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 journal, 20, 1261–1286. https://doi.org/10.17179/excli2021-4013 *(SCOPUS; IF = 2.93; Q1)* *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.* **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)* *11.* 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** *12.* 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)* *13.* 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)* *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)* **2019** *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.** (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)* *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 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)* *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 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	Лущак Володимир Іванович, доктор біологічних наук, професор кафедри	**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.

			споживання кафетерійної дієти	біохімії та біотехнології	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	**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 advances, 3, 100077. https://doi.org/10.1016/j.bbadva.2023.100077 *(SCOPUS; Q3)* **2022** *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.* 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)* *4.* 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** *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. https://doi.org/10.17179/excli2021-3596 *(SCOPUS; IF = 2.93; Q1)* *7.* **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)* *8.* **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)* *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.* 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)* *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.** (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** *12.* 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)* *13.* 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)*