Surname	First nam		ne Title		Date of birth		Gender	
Abrat	Abrat Olek		andra Ph.D.		1	6.05.1983	Female	
Address		Department of Biochemistry and Biotechnology Vasyl Stefanyk Precarpathian National University						
Telephone		+38 068	03-80125					
E-Mail-Address		oleksand	lra.abrat@	pnu.edu.ua			1.	
Position ORCID		Associate Professor 0000-0003-4477-3032					V00 00	
				Child co	are period			
Number of Children 1		Age of Children 14			yes; from.10.01.2010. to 9.03.2013			
ACADEMIC EDUCATION/ (WITH DEGREE)								
Field of study		College / University (Country)		Degree Advisor		Advisor		
Biology (2000	-2005)		Vasyl Stef Precarpat University	fanyk hian National y (Ukraine)	Diploma w distinction	vith		
SCIENTIFIC DEGREES								
Degree	Field of s	Field of study		ollege / University Country)		luation	Advisor	
Ph.D.	Biochemistry		Yurij Fed'kovych Chernivtsi National University (Ukraine)		2009		Prof. Lushchak V.I	
TEACHING EXPERIENCE								
Period	Activity (teaching courses et).	Institution			
2021-2023	"Immune mechanisms", spec			al course – lectures Precarpathian Natior Frankivsk. Ukraine		nian National Ukraine	University, Ivano-	
2018-present	"Immunology", general course practice			e – lectures &	Precarpathian National University, Ivano- Frankivsk, Ukraine			
2014-present	"Molecula lectures &	"Molecular endocrinology", special course – lectures & practice				Precarpathian National University, Ivano- Frankivsk, Ukraine		
2008-present	"Biochem	"Biochemistry", general course – lectures &			Precarpathian National University, Ivano- Frankivsk. Ukraine			
2008-present "Microbiology", gene practice			eral course – lectures &		Precarpathian National University, Ivano- Frankivsk, Ukraine			
PROFESSIONAL (INCLUDING TEACHING/RESEARCH) EXPERIENCE								
Period	Positio	n / Functio	on	Institution				
2019	Associ	ate Profes	sor	Kielanowski Institute of Animal Physiology and Nutrition, Jablonna, Poland				
2018-present	Associ	ate Profes	sor	Precarpathian National University, Ivano-Frankovsk, Ukraine				
2013-2017	Resear	ch Assista	nt	Precarpathian National University, Ivano-Frankovsk, Ukraine				
2012-2013	Head o	of Laborate	ory	Precarpathian Natio	onal Univers	ity, Ivano-Fra	nkovsk, Ukraine	
				1				

2009-2011 Senior laboratory Precarpathian National University, Ivano-Frankovsk, Ukraine assistant

MISCELLANEOUS					
2022-2024	Grant program from the German academic exchange service DAAD "Ukraine digital: Ensuring academic success in times of crisis (2022, 2023, 2024)" to support the education of Ukrainian students during the war. Blended course "Integrative Life Sciences" and "Microbes, viruses and infections" for Ukrainian biology students.				
2020 -2023	Associate researcher in the project "Personalized prevention tools in obesity and diabetes – a joint Romanian-Ukrainian Programme of health education (PrePOD)" (EMS ENI Code 2SOFT / $4.1 / 56$)				
2019	Internship: "Testing the stability of enteric coating delay release ALLN-346 tablets along gastrointestinal tract in fed and fasted state, ALLN-346 PK study in the gut" (Lund University, Lund, Sweden)				
2019	PolLASA courses on proper breeding, maintenance, and usage of laboratory animals (Polish laboratory animal science association, Warsaw, Poland)				
2019	Theoretical training (total credits 2 ECTS) "Perspectives in Biomedicine with a Focus on Cancer Immunotherapy" (DAAD, Ivano-Frankivsk, Ukraine)				
2019 - present	Jury member of National Tournament for Young Biologists				
2018 -2020	Researcher in in the project funded by Ministry of Education and Science of Ukraine: "Development of new non-medicinal methods for correction of metabolic syndrome: normalization of physiological and biochemical indices in animals" (#0118U003477).				
2018 - present	Jury member of National Biological Olympiads (III-IV stage)				
2015 - 2018	Deputy Director of the Institute of Natural Sciences, PNU				
2013-present	Member of Organizing Committee and Lecturer at Autumn School for Young Biochemists held annually at Department of Biochemistry and Biotechnology, PNU				
2013 - 2018	Activity manager of Organizing Committee and Lecturer at Carpathian Summer School in Biochemistry held annually at Department of Biochemistry and Biotechnology, PNU				
2013	The Queen Jadwiga Fund scholar (Jagiellonian University, Krakow, Poland)				
2007	The Queen Jadwiga Fund scholar (Jagiellonian University, Krakow, Poland)				

MOST IMPORTANT PUBLICATIONS (total documents – 71, in scopus – 12, times cited – 105, h-index– 4)

- 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. DOI: https://doi.org/10.17179/excli2023-6296
- Bayliak M., Abrat O., Shmihel H., Lushchak V. and Shvadchak V. (2023). Interuniversity Online Courses as Possible Approach to Improve Teaching During Crisis: a Ukrainian Case Study. Journal of Vasyl Stefanyk Precarpathian National University. 10, 1 (Apr. 2023), 49-60.
- Bayliak, M. M., Demianchuk, 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.
- Bayliak, M. M., & Abrat, O. B. (2020). Role of Nrf2 in oxidative and inflammatory processes in obesity and metabolic diseases. In Nrf2 and its modulation in inflammation (pp. 153-187). Springer, Cham.
- Bayliak, M. M., Abrat, O. B., Storey, J. M., Storey, K. B., & Lushchak, V. I. (2019). Interplay between dietinduced obesity and oxidative stress: Comparison between Drosophila and mammals. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, 228, 18-28.

Abrat, O. B., Storey, J. M., Storey, K. B., & Lushchak, V. I. (2018). High amylose starch consumption induces obesity in Drosophila melanogaster and metformin partially prevents accumulation of storage lipids and shortens lifespan of the insects. Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology, 215, 55-62.

Semchyshyn, H. M., Abrat, O. B., Miedzobrodzki, J., Inoue, Y., & Lushchak, V. I. (2011). Acetate but not propionate induces oxidative stress in bakers' yeast Saccharomyces cerevisiae. **Redox Report**, 16(1), 15-23.

Lushchak, V., Abrat, O., Miedzobrodzki, J., & Semchyshyn, H. (2008). Pdr12p-dependent and-independent fluorescein extrusion from baker's yeast cells. Acta Biochimica Polonica, 55(3), 595-601.