



Curriculum Vitae

PERSONAL INFORMATION



Olesia O. Kalmukova

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Account (profile) in scientific databases:

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Google Scholar Olesia Kalmukova

<https://scholar.google.com/citations?user=WUfTyCcAAAAJ&hl=ru>

Sex F | Date of birth 28/11/1992 | Citizenship Ukraine

Scientific degrees (specialization)	Philosophy Doctor (PhD) in biological sciences (091-Biology)
Academic rank	-
Position	assistant professor
Department	Cytology, Histology and Reproductive Medicine
Faculty/Institute	ESC «Institute of Biology and Medicine»
Part-time position	

EDUCATIONAL DISCIPLINES IN WHICH WAS INVOLVED:

Current year	<ol style="list-style-type: none"> 1. «General Cytology» (1st Year BSc), laboratory classes. 2. «Biology of individual development» (3rd Year BSc), laboratory classes. 3. «Histology» (1st Year BSc), laboratory classes. 4. Laboratory Workshop On Reproductive Biology (3rd Year BSc), 5. Laboratory Workshop On Reproductive Biology (4th Year BSc), 6. Laboratory Workshop On Cytology and Histology (4th Year BSc), 7. «Modern Methods Of Biological Research» (1st Year MSc) 8. Age Aspects of Reproductive Function (1st Year MSc)
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	9. Biology of the cell in culture (2 nd Year MSc)
Previous years	<ol style="list-style-type: none"> 1. «General Cytology» (1st Year BSc), laboratory classes. 2. «Biology of individual development» (2nd Year BSc), laboratory classes. 3. «Cytology and Histology» (1st Year BSc), laboratory classes. 4. Laboratory Workshop On Reproductive Biology (3rd Year BSc), 5. «Histology» (1st Year BSc), laboratory classes. 6. «Cytology, Histology and Embryology of Human» (1st Year BSc), laboratory classes.

CAREER/EMPLOYMENT

Period (starting from last)	Description
since 09.2018	<p>Position: Assistant Professor at the Department of Cytology, Histology and Reproductive Medicine.</p> <p>Name of the organization: Taras Shevchenko National University of Kyiv (64/13 Volodymyrska str., 01601 Kyiv, Ukraine; WEB-site: http://www.univ.kiev.ua)</p> <p>Main activity and job description: Conducting laboratory classes from normative courses; writing scientific papers and abstracts; management of BSc course work; carrying out scientific research of the department</p> <p>Area of activity: Education / Science</p>

EDUCATION AND TRAINING

Period (starting from last)	Description
18-23.07.2022	<p>Faculty of Medicine of the University of Zagreb and Croatian Brain Research Institute (Zagreb, Croatia)</p> <p>Intensive Course on Cultivation, Application and Analyzes of Mouse and Human Stem cells Conducted jointly by the Department of Histology and Embryology of the Faculty of Medicine of the University of Zagreb and the Stem Cell Laboratory of the Croatian Brain Research Institute. Scientific internship</p>
13-16.12.2021	<p>Beckman Coulter, IOBIC (Kyiv, Ukraine)</p> <p>Completion of the training program for work on the DxFlex flow cytometer (certificate BCRU-QS-FRM-006-v.1.0). Advanced training</p>
06.2021	<p>Taras Shevchenko National University of Foreign Languages Center</p> <p>Studying at English language courses and obtaining a Certificate of B2 level of language competence (Certificate #4502). Advanced training</p>
01.2021	<p>Taras Shevchenko National University of Kyiv, Ukraine</p> <p>Course of professional development KNU Teach Week. The course was developed by UGEN, the Education Quality Assurance Department of the National Institute of Education and Research, the employment sector of the Taras Shevchenko National University of Kyiv (1 credit). Advanced training</p>

2016-2020	Taras Shevchenko National University of Kyiv, Ukraine
	Education – PhD student at the Department of Cytology, Histology and Reproductive medicine. Dissertation title «Histophysiology of the neuroimmunoendocrine system under conditions of induced obesity at different modes of melatonin administration»
2016	Taras Shevchenko National University of Kyiv, Ukraine
	Experience/degree – MSc’s diploma with honours. Professional qualification: Junior Researcher (Biology), Histologist.
2014	Taras Shevchenko National University of Kyiv, Ukraine
	Experience/degree – BSc’s diploma with honours specialized in «Biology».

PERSONAL SKILLS

Name	Level (description)
Native language	Ukrainian
Foreign language 1	Russian
Foreign language 2	English, Taras Shevchenko National University of Kyiv certificate (level B2) №4502 (2021)
Communicative competence	Provide different types of communication at laboratory classes with students. Gave posters and oral presentations at numerous international scientific symposiums.
Organizational / management competence	Scientific supervisor of student’s course work and final qualification works, have competence of organization for conducting an experimental part of student research at the department. Head of student industrial and pre-diploma practice. Mentor of the academic group of students.
Computer skills	Information processing: Professional user of MS Office, Origin (OriginLab), Statistica (StatSoft). Other computer skills: Using the ImageJ software, Adobe Photoshop for processing digital microscopic histological photographs using analytical cytology, creating panoramic images of organ cross-sections.
Professional skills (not mentioned above)	Possession of methods: - Cytological (including cell cultivation, flow cytofluorimetry); - Histological (Histochemistry, immunohistochemistry); - Analytical cytology and histology (morphometry); - Statistical data analysis; - Induction of disease models in laboratory animals.
Fields of professional interests	<ul style="list-style-type: none"> • study of neuro-immuno-endocrine regulation of the adipose tissue functioning (in particular, the mechanisms of beige adipocytes appearance, changes in the cytological profile of white and brown adipocytes) under normal and pathological conditions; • studying the role of macrophage polarization and the interaction of other immune cells in adipose tissue on the background of obesity; • study of changes in the state of hypothalamus nuclei under the obesity development and after its correction; • estimation of various chronotherapeutic approaches for obesity correction; • search for new sources of stem cells for cell therapy, obtaining, cultivating and characterizing stem cells from different origins.

Item	Titles of publications, projects, conferences, awards and prizes, memberships in academies and societies etc.
Publications	<p>In total, the co-author of more than 25 articles in national and international professional journals.</p> <ol style="list-style-type: none"> 1. O. Kalmukova, H. Shemetova, N. Skrypyk, O. Savchuk, M. Dzerzhynsky. (2022). Melatonin improve spleen histophysiology of rats with diet-induced obesity: chronotherapy approach. <i>Bulletin of Taras Shevchenko National University of Kyiv-Biology</i>, 90(3), 34-39. 2. Kalmukova, O., Kyryk, V., & Dzerzhynsky, M. (2022). Circadian Rhythms And Personalized Strategies For Anti-Aging Therapies. <i>Anti-Aging Eastern Europe</i>, 1(1), 19-27. 3. N. Raksha, O. Kalmukova, T. Vovk, T. Halenova, M. Dzerzhynsky, O. Savchuk, L. Ostapchenko. (2021). EFFECTS OF PEPTIDES DERIVED FROM THE ANTARCTIC SCALLOP ADAMUSSIUM COLBECKI ON OBESE RATS' ADIPOSE TISSUE HISTOPHYSIOLOGY. <i>Carpathian Journal of Food Science and Technology</i>, 13(4), 24-34. https://doi.org/10.34302/crpifst/2021.13.4.3 4. Yurchenko A., Krenytska D., Kalmukova O., Raksha N., Halenova T., Vovk T., Savchuk O., Dzerzhynsky M., Ostapchenko L. & Tomchuk V. (2021). The Kidney Beans (<i>Phaseolus vulgaris</i>) Pods Extract Affects the Central and Peripheral Serotonergic Systems in Rats With High-Calorie Diet-Induced Obesity. <i>Journal of Endocrinology and Metabolism [Online]</i>, 11(5), 123-133. 5. Kalmukova O., Leonova, Y., Savchuk, O., Skrypyk, N., & M. Dzerzhynsky. (2021). Inflammation features of brown adipose tissue of rats with diet-induced obesity development after different regimes of melatonin administration // <i>Bulletin of Taras Shevchenko National University of Kyiv-Biology</i>, 86(3), 28-33. 6. Kalmukova, O., Yurchenko, A., Savchuk, O., & Dzerzhynsky, M. (2020). Variable Beige Adipocyte Morphology in Obese Rats by Different Times of Melatonin Administration. <i>Int. J. Morphol</i>, 38(3), 737-746. 7. Kalmukova, O. O., Yurchenko, A. V., Savchuk, A. M., & Dzerzhynsky, M. E. (2020). Changes in the Inflammatory Status in White Adipose Tissue of Rats with Diet-Induced Obesity at Different Regimens of Melatonin Administration. <i>Cytology and Genetics</i>, 54(1), 38-47. 8. Kalmukova, O., & Dzerzhynsky, M. (2019). The effects of melatonin administration in different times of day on the brown adipose tissue in rats with high-calorie diet-induced obesity. <i>Bulletin of Taras Shevchenko National University of Kyiv-Biology</i>, 77(1), 55-61. 9. Kalmukova, O., Yurchenko, A., & Dzerzhynsky, M. (2018). The effects of different mode of melatonin administration on the development of high-calorie diet-induced obesity in rats. <i>Bulletin of Taras Shevchenko National University of Kyiv-Problems of Physiological Functions Regulation</i>, 25(2), 19-25. 10. Kalmukova, O. O., Yurchenko, A. V., Kyryk, V. M., Nepomnyaschy, V. M., Savchuk, O. M., & Dzerzhynsky, M. E. (2018). Effects of Melatonin Administration in Different Time Modes on Morphofunctional Indices of the Hypothalamic Serotonergic Neurons in Obese Rats. <i>Neurophysiology</i>, 50(6), 398-408. 11. Kalmukova O. Morpho-Functional Characteristics of Bone Marrow Multipotent Mesenchymal Stromal Cells after Activation or Inhibition of Epidermal Growth Factor and Toll-Like Receptors or Treatment with DNA Intercalator Cisplatin /O. Kalmukova, I. Golovyńska, H. Svitina et al. // <i>Cytometry Part A</i>. – 2018. 12. Kalmukova O., Dzerzhynsky M. E. The effects of different time of melatonin administration on differentiation and functional status of the brown adipocytes in vivo // <i>Cell and Organ Transplantology</i> – 2018. – T. 6, №1. – P. 80-85. 13. Kalmukova O., A. Pustovalov, I. Vareniuk, M. Dzerzhynsky. Effect of melatonin different time administration on the development of diet-induced obesity in rats // <i>Bulletin of Taras Shevchenko National University of Kyiv-Problems of Physiological Functions Regulation</i>. – 2018. – T. 23. – №. 2. – P. 20-27. 14. Kalmukova O., Ustymenko A.M., Lutsenko T.M., Klymenko P.P., Kyryk V.M. Morphological and functional characteristics of cell culture derived from the mouse nail unit // <i>Cell and Organ Transplantology</i> – 2017. – T. 5, №1. – P. 62-66 15. V.V. Turov, T.V. Krupska, A.P. Golovan, L.s. Andriyko, M.D. Tsapko, G. Ostrovska, O. Kalmukova, M. Kartel. Influence of silica on hydratability of the grinded flowers of a hibiscus sabdariffa in neutral and acidic mediums // <i>Наносистемы, наноматериалы, нанотехнологии</i>. – 2016. – T. 14, №4. – P. 643-660. 16. Svitina H., Kalmukova O., Shelest D., Skachkova O., Garmanchuk L., Shablii V. Cellular immune response in rats with 1,2-dimethylhydrazine-induced colon cancer after transplantation of placenta-derived multipotent cells // <i>Cell and Organ Transplantology</i> – 2016. – T. 4, №1. – P. 55-61. 17. Kalmukova O. Stem cells in nail unit of mammals // <i>Cell and Organ Transplantology</i>. – 2016. – T. 4,

	№1. – P. 138-143.
Presentations	<ul style="list-style-type: none"> - Histophysiology of the neuroimmunoendocrine system under the conditions of the development of induced obesity with different modes of melatonin administration. International congress on laboratory medicine. The congress was included in the "Register of congresses, congresses, symposia and scientific-practical conferences held in 2020", approved by the National Academy of Sciences and the Ministry of Health of Ukraine. September 23-25, 2020, Kyiv, Ukraine. - Diagnostics of the circadian system as a marker of the body's metabolic state. The seminar was organized by Advanced Pharmaceuticals Ltd. August 22-26, 2022, Lublin, Poland.
Projects	<ul style="list-style-type: none"> - 2022 - Scientific research from 26 September 2022 to 07 October 2022, School of Medicine, University of Zagreb, Zagreb, Croatia. Immunohistochemical determination of mitochondrial protein BNIP under the conditions of development of obesity induced by consumption of a high-calorie diet in rats and during its correction. The Department of Academic Mobility issued a referral for a trip, order No. 1180-36 dated September 26, 2022. - 2014-2015: "Alternative models for the testing of drugs for oncogenicity» (Department of Targeted Training of the Taras Shevchenko National University of Kyiv and the National Academy of Sciences of Ukraine)
Conferences	<ol style="list-style-type: none"> 1. Exogenous Melatonin Action on Different Hypothalamic Nuclei of Obese Rats: a Chronotherapeutic Approach. Olesia Kalmukova, Vitalii Kyryk, Valentin Nepomnyaschy, Olexiy Savchuk, Mykola Dzerzhynsky. International Conference on Neurological Disorders and Neurorestoration, Dubrovnik, Croatia, May 19-22, 2022. NEUROL. CROAT. 2022, 71 (Suppl. 2): 49 (UDK 616.8, ISSN 1331-5196). 2. Chumak K., Kalmukova O., Voronina O., Dzerzhynskiy M.E. Morpho-functional state of the pancreas of rats with diet-induced obesity under different modes of melatonin administration. XIX International Scientific Conference of Students and Young Scientists "Shevchenko Spring: Bioscience Advances" on May 12-13, 2021. Kyiv, Ukraine. pp. 266-269. 3. O. Kalmukova, A. Yurchenko, V. Kyryk, O. Savchuk, M. Dzerzhynsky. State of peripheral and central serotonergic system in rats with diet-induced obesity at the different times of melatonin administration // 2nd neurology and rehabilitation international symposium: «Neuroregeneration», October 5, 2018, Kyiv, Ukraine. – P. 8. 4. Kalmukova O.O., Yurchenko A.V., Pustovalov A.S., Vareniuk I.M., Savchuk O.M., Dzerzhynsky M.E.. Changes in the inflammation state of white adipose tissue in rats with diet-induced obesity at the different times of melatonin administration. // FEBS3+ Meeting – XIth Parnas Conference – Young Scientists Forum "Biochemistry and Molecular Biology for Innovative Medicine". / The Ukrainian Biochemical Journal.– 2018.– Vol. 90, Special Issue.– P. 122. 5. Kalmukova O.O., Yurchenko A.V., Kyryk V.M. Central serotonin and tryptophan levels in rats with diet-induced obesity at the different time of melatonin administration // ISSN 2409-4943. Ukr. Biochem. J., 2018, Vol. 90, N 3, Modern Aspects of Biochemistry and Biotechnology. – P. 116. 6. O. Kalmukova, V. Kyryk, M. Dzerzhynsky. Morpho-functional state of serotonergic neurons of hypothalamus arcuate nucleus of rats with diet-induced obesity under different times of melatonin administration // THE 4th INTERNATIONAL SCIENTIFIC CONFERENCE CURRENT PROBLEMS OF BIOCHEMISTRY AND CELL BIOLOGY, 05-06 October 2017 Dnipro, Ukraine. – P. 107-108. 7. Kalmukova O., Savchuk O., Dzerzhynsky M. Melatonin improves skeletal muscles morphology and metabolism in high-calorie diet-induced obesity rat model // Third Kyiv Symposium "Smooth Muscle Physiology, Biophysics & Pharmacology: from genes and molecules to functions, disorders and their novel treatment opportunities". 18-22 September 2017, Kyiv – Lutsk. – P. 70. 8. Kalmukova O.O., Bilyk A.A., Senchylo N.V., Petruk N.A., Garmanchuk L.V. Teichoic acid from Staphylococcus aureus enhances the apoptotic cells, stimulates the activity of succinate dehydrogenase in MCF-7 cells in unfed culture condition // II international Scientific Conference "Microbiology and Immunology – the development outlook in the

	<p>21st century". – Kyiv, 14-15 April 2016. . – P. 115-116.</p> <p>9. Kalmukova O.O., Svitina GM, Dzhus OI, Denis Ye.O., Garmanchuk LV, Stupak Yu.A., Ostapchenko L.I. Transplantation of placental adherent multipotent cells does not affect mid/late tumor progression in dimethylhydrazine-induced colon Carcinogenesis in rats // ISSCR 2015 Annual Meeting. – Stockholm, 24-27 June 2015. – P. 17-18.</p> <p>10. Belinskaya I. V., Garmanchuk L.V., Kalmukova O.O., Andrushchenko O.O., Rybalchenko V.K. Morpho-functional state of cells line u-937 after the Influence of protein kinase inhibitor - maleimide derivative // 4rd Ukrainian Congress for Cell Biology, 2014. – P. 113.</p> <p>In total over 35 abstracts of communications at national and international research symposia.</p>
Seminars	The major topics: a) organization of translational steps- from preclinical to clinical trial, b) histopathological analyses – the central role in in-depth analyses and c) new era of statistics in clinical trials. Advanced Pharmaceuticals Ltd. Lublin, Poland August 22-26, 2022.
Awards and prizes	2022 Became a laureate of the Taras Shevchenko Prize in the "Young Scientists" nomination
Membership in academies, professional and scientific associations	<ol style="list-style-type: none"> 1. Council of Young Scientists of the KNU 2. The Physiological Society 3. Ukrainian Biophysical Society 4. Ukrainian Biochemical Society
Links	https://www.researchgate.net/profile/Kalmukova_Olesia https://scholar.google.com/citations?user=WUFTyCcAAAAJ&hl=ru
Citations	23 (h-index 3)
Courses	<ul style="list-style-type: none"> - 2013 "Mathematical Modeling in Biomedical Science", 1st International Interdisciplinary School KNOWLEDGE EDGE, Taras Shevchenko Kyiv National University, Kyiv, Ukraine. - 2017 "Cell Function in Health and Disease", 3rd Annual International School in Biomedical Sciences, Taras Shevchenko Kyiv National University, Kyiv, Ukraine. - 2018 FEBS3+meeting – IX Parnas Conference – Young Scientists Forum "Biochemistry and Molecular Biology for Innovative Medicine", Taras Shevchenko Kyiv National University, Kyiv, Ukraine. - 2018 "Cell Function in Health and Disease", 4th Annual International School in Biomedical Sciences, Taras Shevchenko Kyiv National University, Kyiv, Ukraine. - 2019 "Modern Aspects and International Strategy for Postgraduate Education, Professional Regulation and Standard Setting in Histopathology", Royal College of Pathologist in conjunction with Shupyk National Medical Academy of Postgraduate Education, Kyiv, Ukraine. - Training course on mastering modern tools and programs for interactive data visualization (ICenter of Taras Shevchenko KNU), January 11-22, 2021.
Certificates	<ul style="list-style-type: none"> - World Digestive Health Day 2021. Naples (live streaming), Italy. European Accreditation Council for Continuing Medical Education, 05/29/2021. 3 European CME Credits (ECMEC@s). - Clinical and molecular cytogenetics = cytogenomics. Eternal classics and the latest technologies. The scientific and practical seminar was organized by the NGO "All-Ukrainian Association of Specialists in Medical and Laboratory Genetics", Training Center of MBC "Genom", Laboratory Imaging s.r.o. 08.10.2021 It is recommended to enroll 5 points according to clause 2.3 of Appendix 5 in the version of the order of the Ministry of Health of Ukraine dated 19.01.2021 No. 74. - 5 Days of Stem Cells. Virtual event. ThermoFisher Scientific, 10/25/2021. - Research design: inquiry and discovery course. Online webinar Hamburg, Germany, European Academy of Sciences and Research, 2022. 10 hours. - Analysis of grant support and effectiveness of cooperation according to Web of Science and InCites data. Online webinar, Clarivate, 13.01.2022. 1 hour. - Practical Tips for EdTech in Higher Education. Online webinar, British Council, 17.02.2022. 1.5 hours. - An introduction to AI image analysis in Microscopy. Online webinar, SelectScience, 02/08/2022. 1 hour. - How to optimize and overcome challenges in vitro oncology models. Online webinar, SelectScience, 02/21/2022. 1 hour. - Non-selection clinical trial: Mosaic embryos development potential. Virtual event, Igenomix HQ, 29.03.2022. 1 hour. - Optimizing Cryopreserved Tissue Samples using Cell Sorting to Study Cellular Heterogeneity. Online webinar, SelectScience, 08.12.2022. 1 hour.