

CURRICULUM VITAE



Name: Inna Gordiienko

Birth date: 24 November 1990

Nationality: Ukrainian

Phone: +380971570413

E-mai: imgordiienko@gmail.com; gordiienko@nas.gov.ua

Scientific degrees: PhD (oncology)

h-index: 5 (Scopus)

ORCID ID: <https://orcid.org/0000-0003-3759-6138>

Google Scholar:

<https://scholar.google.com/citations?user=f5N4pUcAAAAJ&hl=uk>

Education:

2014 – 2017 – PhD at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine. PhD project “Expression and signaling properties of CD150 receptor in chronic lymphocytic leukemia B cells”. PI/supervisor – Corresponding Member of the NASU, Prof., PhD, Dr.Sci. Sidorenko Svetlana.

2012 - 2014 – M.Sc. (Honours), Educational and Scientific Centre “Institute of Biology”, Taras Shevchenko National University of Kyiv. M.Sc. thesis: "The role of CD150 in regulation of transcription factors network in normal and malignant B-cells".

2008 - 2012 – B.Sc. (Honours), Educational and Scientific Centre “Institute of Biology”, Taras Shevchenko National University of Kyiv. Honours thesis: “Inhibitory effect of murine multipotent mesenchymal stromal cells of different tissue origin on splenocytes mitogen-induced proliferation”.

Professional experience:

2018 - present – researcher, group of signal transduction pathways of oncohematology department at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine

2017- 2018 – junior researcher, department of molecular and cellular pathobiology at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine

2016 – present – biologist, Biotechnology laboratory ilaya.regeneration, Medical company ilaya, Kyiv, Ukraine

2014 – 2017 – leader engineer, department of molecular and cellular pathobiology at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine.

2012 - 2014 – engineer, laboratory of signal transduction pathways at R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology, NAS of Ukraine

2011 - 2012 – laboratory assistant, Cell and Tissue Cultures Laboratory at Institute of Genetic and Regenerative Medicine of the Ukrainian Academy of Medical Sciences

Professional skills:

Lab Techniques: work with laboratory animals, eukaryotic and prokaryotic cell cultures, isolation of cell subpopulations by magnetic separation, isolation, cultivation and large-scale expansion of stem cells from different tissue origin (bone marrow, adipose tissue, bone, hair follicle), molecular biology methods (nucleic acid extraction, PCR, RT-PCR, Q-PCR, electrophoresis, western-blotting, immunoprecipitation), transformation of bacteria with plasmid DNA, transfection of eukaryotic cells using calcium-phosphate method or electroporation, lentiviral transduction, histological and immunohistochemical methods, immunofluorescence methods.

Computational skills: ImageJ, Totallab, Graph Pad Prism software, Statistica, FreeHand, Adobe Photoshop and Adobe Illustrator.

Teaching activities: Lectures and practical courses “Signal transduction pathways in cells of immune system” (2018-present), “Molecular immunology” (2019-present) for the master’s program

students (speciality immunology) at the ESC “Institute of Biology and Medicine” of Taras Shevchenko National University of Kyiv

Current research interests and activities. Receptor-mediated signal transduction pathways in normal and malignant cells. The molecular mechanisms that underlie cell fate decision – proliferation, cell death, differentiation, transdifferentiation, malignant transformation etc.

Languages: Ukrainian- native, English – fluent

Professional memberships: Ukrainian Biochemical Society, Ukrainian Society of Cell Biology.

Grants, honors, awards:

2018-2019 - grant of the NAS of Ukraine to research laboratories / groups of young scientists of the NAS of Ukraine for conducting research in priority areas of science and technology development N0118U002325 “Finding new approaches in the regulation of chronic lymphocytic leukemia pathobiology”

23-30.09.2017 - Youth Travel Fund for attending the FEBS Advanced Lecture Course “Immune Systems: Genes, receptors and Regulation” Hvar Island, Croatia.

11-14.09.2017 - travel grant for attending the 14th International PhD Student Symposium "Horizons in Molecular Biology".

30.10-28.11.2016 – one-month training fellowship in compliance with the Protocol to the Agreement on Scientific Cooperation between the Ukrainian National Academy of Sciences and the Polish Academy of Sciences on monthly visits of Ukrainian scientists to Poland. Host Institute – Nencki Institute of Experimental Biology, Poland Academy of Science, Laboratory of Cytometry (Head Katarzyna Piwocka).

10-12.07.2016 – travel grant for attending X Parnas Conference

2015-2017 - grant for young scientists from National Academy of Sciences of Ukraine "Expression and function of CD150 receptor in chronic lymphocytic leukemia B cells"

Organization activity:

21-23.05.2018 – organizing committee member of the symposium and summer school “Fundamental Principles in cancer immunotherapy”.

17.05.2018 – organization the Ukrainian Science Festival devoted to the 100th anniversary of the National Academy of Sciences of Ukraine at the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of NAS of Ukraine.

2017-present – secretary of Council of Young Investigators at the R.E. Kavetsky Institute of Experimental Pathology, Oncology and Radiobiology of NAS of Ukraine.

List of Publications:

1. Shcherbina V, Gordiienko I, Shlapatska L, Gluzman D, Sidorenko S. / CD150 and CD180 are negative regulators of IL-10 expression and secretion in chronic lymphocytic leukemia B cells // *Neoplasma*. – 2021. DOI: [10.4149/neo_2021_210104n8](https://doi.org/10.4149/neo_2021_210104n8).
2. Shlapatska, L. M.; Gordiienko, I. M.; Kovalevska, L. M.; Sidorenko, S. P. / The biological properties of HEK293T cell line transfected with mCD150 and nCD150 isoforms of CD150/SLAMF1 receptor // *Biopolymers & Cell*. – 2020. - Vol. 36, Issue 2, p99-109. <http://dx.doi.org/10.7124/bc.000A24>
3. Shcherbina V., Gordiienko I., Shlapatska L., Ivanivska T., Sidorenko S. / Sensitivity of chronic lymphocytic leukemia cells to chemotherapeutic drugs ex vivo depends on expression status of cell surface receptors // *Experimental Oncology*. – 2020. – Vol. 42, N1. - P. 16-24. DOI: [10.32471/exp-oncology.2312-8852.vol-42-no-1.14093](https://doi.org/10.32471/exp-oncology.2312-8852.vol-42-no-1.14093)
4. Vasyliiev R.G, Gubar O.S., Gordiienko I.M., Litvinova L.S, et al. / Comparative Analysis of Biological Properties of Large-Scale Expanded Adult Neural Crest-Derived Stem Cells Isolated from Human Hair Follicle and Skin Dermis // *Stem cells international*. – 2019, ID 9640790. <https://doi.org/10.1155/2019/9640790>
5. Gordiienko I., Shlapatska L., Kovalevska L., Sidorenko S.P. / SLAMF1/CD150 in hematologic malignancies: Silent marker or active player? // *Clinical Immunology*. – 2019. –

- Vol.204. – p. 14-22. <https://doi.org/10.1016/j.clim.2018.10.015>
6. Zlatska AV, **Gordiienko IM**, Zubov DO, Vasyliiev RG, Novikova SN / Expression of estrogen and progesterone receptors by human endometrial multipotent mesenchymal stromal/stem cells in vitro under hypoxia conditions // *Biotechnologia Acta*. – 2019. – Vol. 12 (1). – p. 81-85. <https://doi.org/10.15407/biotech12.01.081>
 7. Zlatska A., **Gordiienko I.**, Vasyliiev R., Zubov D., Gubar O., Rodnichenko A., Syroeshkin A., Zlatskiy I. / In Vitro Study of Deuterium Effect on Biological Properties of Human Cultured Adipose-Derived Stem Cells // *The Scientific World Journal*. – 2018, ID 5454367. <https://doi.org/10.1155/2018/5454367>
 8. **Gordiienko I.M.**, Shlapatska L.M., Kholodniuk V.M., Kovalevska L.M., Ivanivskaya T.S., Sidorenko S.P. / CD150 and CD180 are involved in regulation of transcription factors expression in the chronic lymphocytic leukemia B cells // *Experimental Oncology*. – 2017. – Vol. 39, N4. - P. 291-298. <https://exp-oncology.com.ua/article/10508/cd150-and-cd180-are-involved-in-regulation-of-transcription-factors-expression-in-chronic-lymphocytic-leukemia-cells>
 9. **Gordiienko I.**, Shlapatska L., Kholodniuk V., Sklyarenko L., Gluzman D., Clark E., Sidorenko S./ The interplay of CD150 and CD180 receptor pathways contribute to the pathobiology of chronic lymphocytic leukemia B cells by selective inhibition of Akt and MAPK signaling // *PLoS ONE*. – 2017, 12(10): e0185940. <https://doi.org/10.1371/journal.pone.0185940>.
 10. Vasyliiev RG, Rodnichenko AE, Gubar OS, Zlatska AV, **Gordiienko IM**, Novikova SN, Zubov DO / Large-scale expansion and characterization of human adult neural crest-derived multipotent stem cells from hair follicle for regenerative medicine applications // *Experimental Oncology*. — 2017 — Vol. 39, N.3. — P. 171–180. <https://exp-oncology.com.ua/article/10174/large-scale-expansion-and-characterization-of-human-adult-neural-crest-derived-multipotent-stem-cells-from-hair-follicle-for-regenerative-medicine-applications>
 11. Vasyliiev RG, Oksymets VM, Rodnichenko AE, Zlatska AV, Gubar OS, **Gordiienko IM**, Zubov DO / Tissue-engineered bone for treatment of combat related limb injuries // *Experimental Oncology*. — 2017 — Vol 39, N.3. — P. 191–196. <https://exp-oncology.com.ua/article/10281/tissue-engineered-bone-for-treatment-of-combat-related-limb-injuries>
 12. **Gordiienko IM**, Zhuravel EV, Kovalevska LM, Soldatkina MO, Shlapatska LM, Kholodniuk VM, Sidorenko SP, PV Pogrebnoy / Influence of beta-defensin-2 on the expression of transcription factors in malignant cell lines of B-cells origin // *Oncology*. - 2016. - Volume 18, N4. – p. 255-261 (In Ukrainian)
 13. **Gordiienko I.M.**, Shlapatska L.M., Kovalevska L.M., Sidorenko S.P. / Differential expression of CD150/SLAMF1 in normal and malignant B cells on the different stages of maturation // *Experimental Oncology*. – 2016. – Vol. 38, N2. - P. 101-107. <https://exp-oncology.com.ua/article/8643/differential-expression-of-cd150-slamf1-in-normal-and-malignant-b-cells-on-the-different-stages-of-maturation>
 14. Shlapatska L., Kovalevska L., **Gordiienko I.** and Sidorenko S. / Intrinsic defect in B-lymphoblastoid cell lines from patients with X-linked lymphoproliferative disease type 1: II. Receptor-mediated Akt/PKB and ERK1/2 activation and transcription factors expression profile // *Experimental oncology*. – 2014. – Vol. 36, N3. - P. 162-169. <https://exp-oncology.com.ua/article/7068/intrinsic-defect-in-b-lymphoblastoid-cell-lines-from-patients-with-x-linked-lymphoproliferative-disease-type-1-ii-receptor-mediated-akt-pkb-and-erk1-2-activation-and-transcription-factors-expression>
 15. Shlapatska L., Kovalevska L., **Gordiienko I.** and Sidorenko S. / Intrinsic defect in B-lymphoblastoid cell lines from patients with X-linked lymphoproliferative disease type 1: I. Cell surface phenotype and functional studies // *Experimental oncology*. – 2014. – Vol. 36, N1. - P. 2-8.). <https://exp-oncology.com.ua/article/6507/intrinsic-defect-in-b-lymphoblastoid-cell-lines>

List of conference abstracts

1. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. SLAMF1/CD150-mediated signalling in chronic lymphocytic leukemia. XI Parnas conference, Young Scientific Forum “Biochemistry and Molecular Biology for Innovative Medicine”. The Ukrainian Biochemical Journal, Vol.90, Special Issue, p.15, 3-5 September, Kyiv, Ukraine, 2018 (oral presentation)
2. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. / Simultaneous CD150 and CD180 ligation mutually inhibit Akt and MAPK signal transduction pathways in the chronic lymphocytic leukemia B cells // Mini-symposium “New trends in cancer reaserch and innovative tumor vaccines”, 11 May 2017, Kyiv, Ukraine. Experimental Oncology. – 2017. – Vol. 39, N2. - P. 158. (oral presentation)
3. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. / Biological significance of CD150 and CD180 receptors coexpression in the chronic lymphocytic leukemia B cells // 14th Horizons in molecular biology&11th Career Fair, 11-14 September 2017, Gottingen, Germany. – 2017. - P. 84. (oral presentation)
4. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. / Expression and signaling properties of CD150 receptor in normal and malignant B cells // 19th Interneteional Summer School on Immunology, 23-30 September 2017, Hvar, Croatia. – 2017. - P. 52. (poster session).
5. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. CD150/SLAMF1 antigen in molecular pathobiology of chronic lymphocytic leukemia. International VACTRAIN/3rd Swedish-Ukrainian conference on cancer diseases, January, Stockholm, Sweden, 2017, p.13. (oral presentation)
6. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. The role of CD150 receptor in the regulation of signalling pathways in the chronic lymphocytic leukemia B cells. X Parnas conference, Young Scientific Forum “Molecules in the Living Cell and Innovative Medicine”. Abstract book, p.46, July, Wroclaw, Poland, 2016 (oral presentation)
7. Gordiienko IM, Shlapatska LM, Kovalevska LM, Sidorenko SP. CD150 isoforms expression in normal and malignant B cells on the different stage of maturation. International conference “Integrated clinical and pathogenetic approaches in diagnosis and therapy of cancer”, June, Kyiv, Ukraine. Experimental Oncology, 2016; 38, 2, 132 (oral presentation)
8. Gordiienko I., Shlapatska L., Kholodniuk V., Sklyarenko L., Sidorenko S. CD150 isoforms expression and topology in chronic lymphocytic leukemia. Advances in Cell Biology and Biotechnology. Lviv, 2015 (Poster session).
9. Gordiienko IM, Shlapatska LM, Kovalevska LM, Sidorenko SP Special features of B-lymphoblastoid cell lines from patients with X-linked lymphoproliferative disease type 1. *1st Congress of the Polish Biochemistry, Cell Biology, Biophysics and Bioinformatics*, Warsaw, 2014 (Poster session)