

## Department of Regulation of Cell Proliferation and Apoptosis

### Publications 2020

#### Монографії (розділи монографії):

Finiuk N., Buziashvili A., Mitina N., Zaichenko A., Blume Y., Yemets A., Stoika R. Application of nanomaterials for genetic engineering of plant cells. *Research Advances in Plant Biotechnology* / Editor Y.B. Blume. NY, Nova Science Publishers, Inc., 2020. P. 33-59. (<https://novapublishers.com/shop/research-advances-in-plant-biotechnology/>)

#### Статті у виданнях, які мають імпакт-фактор:

1. Świątek M. Magnetic temperature-sensitive solid-lipid particles for targeting and killing tumor cells / Świątek M., Skorokhyd N., Černoch P., Finiuk N., Panchuk R., Klyuchivska O., Hrubý M., Molčan M., Berger W., Trousil J., Stoika R., Horák D. // *Frontiers in Chemistry*. - 2020. – Vol. 8.- P. 205. Doi: <https://doi.org/10.3389/fchem.2020.00205>; URL: <https://www.frontiersin.org/articles/10.3389/fchem.2020.00205/full>. (IF = 3,994, Q1)
2. Gokce Z. G. Novel amphiphilic block-copolymer forming stable micelles and interpolyelectrolyte complexes with DNA for efficient gene delivery / Gokce Z. G., Birol S. Z., Mitina N., Harhay K., Finiuk N., Glasunova V., Stoika R., Ercelen S., Zaichenko A. // *International Journal of Polymeric Materials and Polymeric Biomaterials*. - 2020. Doi: <https://doi.org/10.1080/00914037.2020.1740988> (IF =2,370, Q2)
3. Manko N. The purification and identification of human blood serum proteins with affinity to the antitumor active RL2 lactaptin using magnetic microparticles / Manko N., Starykovich M., Bobak Y., Stoika R., Richter V., Koval O., Lavrik I., Horák D., Souchelnytskyi S., Kit Y. // *Biomedical Chromatography*. – 2019. – Vol. 33, N11. – P. e4647. Doi: [10.1002/bmc.4647](https://doi.org/10.1002/bmc.4647). Epub 2019 Aug 18. (IF = 1,748, Q2)
4. Antonyuk V.O. Chitosan of peppery milky cap fungi (*Lactarius pergamenus* (Fr.) Fr): isolation, study of its physicochemical properties and biological activity / Antonyuk V.O., Panchak L.V., Manko N.O., Stoika R.S. // *Revista de Chimie*. – 2020. – Vol. 71, N9. <https://doi.org/10.37358/RC.20.9.8333> (IF 1,7, Q2).
5. Hreniukh V.P. Effects of thiazole derivatives on intracellular structure and functions in murine lymphoma cells / Hreniukh V.P., Finiuk N.S., Shalai Y.R., Manko B. O., Manko B. V., Ostapiuk Yu. V., Kulachkovskyy O. R., Obushak M. D., Stoika R.S., Babsky A.M. // *Ukrainian Biochemical Journal*. - 2020. - Vol. 92, N 2. - P. 121–130 Doi: <https://doi.org/10.15407/ubj92.02.121>; URL:<http://Doi:ukrbiochemjournal.org/2020/04/effects-of-thiazole-derivatives-on-intracellular-structure-and-functions-in-murine-lymphoma-cells.html> (IF = 0,36, Q4)
6. Finiuk N.S. Cytotoxic action of maleimide derivative 1-(4-Cl-benzyl)-3-chloro-4-(CF<sub>3</sub>-phenylamino)-1H-pyrrole-2,5-dione toward mammalian tumor cells and its capability to interact with DNA / Finiuk N.S., Ivasechko I.I., Klyuchivska O.Yu., Kuznietsova H.M., Rybalchenko V.K., Stoika R.S. // *Ukrainian Biochemical Journal*.

- 2020. – Vol. 92, N 4. - P. 55-62. Doi: <https://doi.org/10.15407/ubj92.04.055>. (IF = 0,36, Q4)

7. Evaluation of Phytotoxicity and Mutagenicity of Novel DMAEMA-Containing Gene Carriers / Finiuk, N., Romanyuk, N., Mitina, N. et al.. // *Cytol. Genet.* – 2020. – Vol. 54. – P. 437–448. <https://doi.org/10.3103/S0095452720050096> (IF = 0,475, Q4)

#### **Патентно-ліцензійна діяльність:**

Кобилінська Л.І., Рябцева А.О., Мітіна Н.Є., Стойка Р.С., Заіченко О. С., Зіменковський Б.С. Спосіб зниження негативних побічних реакцій протипухлинного препарату доксорубіцину за допомогою нанорозмірного полімерного носія. Патент України на корисну модель. u 2020 03453. 09.06.2020