List of 10 most important publications

1. Červinka, M., and Půža, V. Apoptosis and Necrosis: Dynamics of Structural Changes in Cells Cultivated In Vitro after Treatment with Xenobiotics. *Toxicology in Vitro*, 1995, 9(4), 387-396 (IF = 0,7)

2. Horák, D., Červinka, M., and Půža, V. Hydrogels in endovascular embolization. VI. Toxicity tests of poly(2-hydroxyethyl methacrylate) particles on cell cultures. *Biomaterials,* 1997, 18(20), 1355-1359 (IF = 1,8)

3. Cooper-Hannan, R., Harbell, J. W., Coecke, S., Balls, M., Bowe, G., Červinka, M., Clothier, R., Hermann, F., Klahm, L. K., de Lange, J., Liebsch, M. and Vanparys, P. The Principles of Good Laboratory Practice: Application to In Vitro Toxicology Studies. *ATLA,* 1999, 27(4), 539-577 (IF = 1,5)

4. Rudolf E, Cervinka M, Cerman J, Schroterova L. Hexavalent chromium disrupts the actin cytoskeleton and induces mitochondria-dependent apoptosis in human dermal fibroblasts. *Toxicology In Vitro.* 2005, 19(6), 713-723 (IF = 1,7)

5. Rudolf, E.; Cervinka, M. The role of intracellular zinc in chromium(VI)-induced oxidative stress, DNA damage and apoptosis. *Chemico-Biological Interactions.* 2006, 162(3), 212- 227 (IF = 1,8)

6. Rudolf, E.; Rudolf, K.; Cervinka, M. Selenium activates p53 and p38 pathways and induces caspase-independent cell death in cervical cancer cells. *Cell Biology and Toxicology.* 2008, 24(2), 123-141 (IF = 2,1)

7. Cervinka, M.; Cervinkova, Z.; Rudolf, E. The role of time-lapse fluorescent microscopy in the characterization of toxic effects in cell populations cultivated in vitro. *Toxicology in Vitro.* 2008, 22(5), 1382-1386 (IF = 2,5)

8. Rudolf, E., Červinka, M. Zinc pyrithione induces stress signaling and apoptosis in Hep-2 cervical tumor cells: the role of mitochondria and lysosomes. *Biometals*, 2010, 23(2), 339-354 (IF = 2,3)

9. Rudolf, E., Rudolf, K., Červinka, M. Camptothecin induces p53-dependent and -independent apoptogenic signaling in melanoma cells. *Apoptosis*, 2011, 16(11),1165-1176 (IF = 4,4)

10. Rudolf, E.; John, S.; Cervinka, M. Irinotecan induces senescence and apoptosis in colonic cells in vitro. *Toxicology Letters*, 2012, 4(1), 1-8 (IF = 3,2)