

LISTA DE LUCRĂRI ȘTIINȚIFICE

I. Articole în reviste ISI în calitate de autor principal

1. **Andreea Iren Serban**, M.Costache, A.Dinischiotu. AGEs and glucose levels modulate type I and III procollagen mRNA synthesis in dermal fibroblasts cell culture, *Experimental Diabetes Research*, 2008 (1), 1-7, (2008) IF: 4.350
2. **Andreea Iren Serban**, E. Condac, M. Costache, A. Dinischiotu, The relationship between AGEs, Cu²⁺ and crosslinking of collagen, *Revue Roumaine de Chimie*, 54 (1), 93-101, 2009. ISSN: 0035-3930. IF:0.25
3. **Andreea Iren Serban**, M.Costache, A.Dinischiotu. Controversial behavior of aminoguanidine in the presence of either reducing sugars or soluble glycated bovine serum albumin, *Carbohydrate Research*, 346 (18), 2872-2880, 2011. IF:1.817
4. **Andreea Iren Serban**, L.Stanca, OI.Geicu, MC.Munteanu, M. Costache, A.Dinischiotu, Extracellular matrix is modulated in advanced glycation end products milieu via a RAGE receptor dependent pathway boosted by transforming growth factor- 1, *Journal of Diabetes*, 7(1):114-124. 2015 Online. ISSN: 1753-0407; IF:2.500
5. **Andreea Iren erban**, L. Stanca, O.I. Geicu, A. Dinischiotu, AGEs-induced IL-6 synthesis precedes RAGE up-regulation in HEK 293 cells: an alternative inflammatory mechanism?, *Int. J. Mol. Sci.*, 16(9), 20100-20117, 2015; IF:3.257
6. **Andreea Iren Serban**, L. Stanca, C. Sima, A.C. Staicu, O. Zarnescu, A. Dinischiotu, Complex responses to Si quantum dots accumulation in carp liver tissue: Beyond oxidative stress, *Chem. Biol. Interact.*, 239, 56-66, 2015. IF:2.618
7. **Andreea Iren Serban**, Stanca L, Geicu OI, Munteanu MC, Dinischiotu A (2016) RAGE and TGF- 1 cross-talk regulate extracellular matrix turnover and cytokine synthesis in AGEs exposed fibroblast cells. *PLoS ONE* 11(3): e0152376. doi:10.1371/journal.pone.0152376 IF: 3.057

II. Articole în reviste ISI în calitate de coautor

1. G.O. Dragomir Bodea, M.C. Munteanu, D. Dinu, **Andreea Iren erban**, F. Israel Roming, M. Costache, A. Dinischiotu, Influence of deoxynivalenol on the oxidative

status of HepG2 cells, Romanian Biotechnological Letters, 14 (2), 4349-4359, 2009. IF:0.381

2. M. Radu, M.C. Munteanu, S. Petrache, **Andreea Iren Serban**, D.Dinu, M. Costache, A. Dinischiotu, The depletion of intracellular glutathione and increase of lipid peroxidation mediate the hematite nanoparticles-induced cytotoxicity in MRC-5 cells, Acta Biochimica Polonica, 57, 1-6, 2010. IF: 1.187

3. D.Dinu, G.O.Bodea, C.D. Ceapa, M. C. Munteanu, F. Israel-Roming, **Andreea Iren Serban**, A. Hermenean, M. Costache, O. Zarnescu, A. Dinischiotu, Adapted response of the antioxidant defense system to oxidative stress induced by deoxynivalenol in Hek-293 cells, Toxicon, 57, 1023-1032, 2011. IF: 2.309

4. L.Stanca, S.N. Petrache, M. Radu, **Andreea Iren Serban**, M.C. Munteanu, D.Teodorescu, A.C. Staicu, C. Sima, M.Costache, C. Grigoriu, O. Zarnescu, A. Dinischiotu, Impact of silicon-based quantum dots on the antioxidative system in white muscle of *Carassius auratus gibelio*, Fish Physiol Biochem 38(4),963-975, 2012; IF:1.442

5. A.M. Pisoschi, A. Pop, **Andreea Iren Serban**, G.P. Negulescu, Ethanol determination by amperometric bienzyme sensor based on a Clark-type transducer, Journal of Electroanalytical Chemistry 671, 85-91, 2012. IF:2.822

6. S. N. Petrache, L.Stanca, **Andreea Iren Serban**, C. Sima, A. C. Staicu, M. C. Munteanu, M. Costache, R. Burlacu, Otilia Zarnescu, Anca Dinischiotu, Structural and Oxidative Changes in the Kidney of Crucian Carp Induced by Silicon-Based Quantum Dots, Int. J. Mol. Sci. 13(8), 10193-10211, 2012. IF:3.257

7. L. Stanca, S. N. Petrache, **Andreea Iren Serban**, A. C. Staicu, C. Sima, M. C. Munteanu, O. Zarnescu, D. Dinu, A. Dinischiotu, Interaction of silicon based quantum dots with Gibel carp liver: oxidative and structural modifications, Nanoscale Research Letters.2013, 8:254. IF:2.584

8. AM. Pisoschi, A.Pop, **Andreea Iren Serban**, C. Fafaneata, Electrochemical methods for ascorbic acid determination, Electrochimica Acta, 121, 443-460, 2014. ISSN 0013-4686. IF:4.803

9. L. Stanca, C. Sima, S.N. Petrache (Voicu), **Andreea Iren Serban**, A. Dinischiotu, In vitro evaluation of the morphological and biochemical changes induced by Si/SiO₂

QDs exposure of HepG2 cells, Romanian Reports in Physics, 67,(No. 4), 1512–1524, 2015. IF: 1.367

III. Articole în reviste indexate BDI, ca autor principal:

1. **Andreea Iren Erban**, O. I. Geicu, and F. Serban (2016), Geophysicochemical model of an ionospheric auroral gyroscope, Earth and Space Science, 3, 15–33, doi:10.1002/2015EA000145.

2. Irina Parvu, Ovidiu Geicu, **Andreea Iren Serban** (2011), The role of advanced glycation end products in the development of diabetes complications, Scientific Works, C Series, Veterinary Medicine, LVII (3), 195-206.

3. **Andreea Iren Serban**, E. Condac, M. Costache, A. Dinischiotu, E. Ganea, Collagen Glycoxidation In Vitro, Romanian Journal of Biochemistry, 43-44, 51-62, 2006-2007.

4. **Andreea Iren Serban**, I. Gâjâil , Evidence for the Glycation of Collagen by Sensitive Capillary Electrophoresis Separation, Scientific Works, C Series, XLIX, 14-21, 2006.

5. **Andreea Iren Serban**, E. Condac, E. Ganea, Sensitive FPLC Separation of Collagen Crosslinkings Induced by Glycation, Romanian Journal of Biochemistry, 40 (1-2), 57-62, 2003.

6. **Andreea Iren Serban**, E. Condac, E. Ganea, In Vitro Formation of Advanced Glycation End Products (AGEs) Induces Collagen Crosslinking, Romanian Journal of Biochemistry, 39 (1-2), 63-69, 2002.

IV. Articole în reviste indexate BDI, ca co-autor:

1. I. Gâjâil , **Andreea Iren Serban**, M. Dobrea, Effect of a Multienzymatic Product in The Broiler's Diet, Scientific Works, C Series, LI, 150-156, 2007, ISSN:1222-5304.

2. I. Gâjâil , G. Gâjâil , **Andreea Iren Erban**, M. Dobrea, Studii Asupra Efectului 3-Fitazei Asupra Fosforului Asimilabil la Puii de Carne, Scientific Works, C Series, XL, 68-72, 2006.

V. Capitol Internațional:

1. A. Dinischiotu, L. Stanca, D. Gradinaru, S. N. Petrache, M. Radu, **Andreea Iren Serban**, Oxidative Stress and Nanotechnology, Methods and Protocols, Series: Methods in Molecular Biology, Vol.1028, Chapter 10: Lipid Peroxidation Due to In Vitro and In Vivo Exposure of Biological Samples to Nanoparticles, pp.156-164, Armstrong Donald, Bharali J. Dhruba (Eds.), Hummana Press, Springer, 2013. ISBN 978-1-62703-474-6.