

LISTA DE LUCRĂRI PUBLICATE

I. Cărți

1. **Zărnescu O.** 2012. *Histologie animală generală*. Editura Universitatii din Bucuresti, 326 p. ISBN: 978-606-16-0141-7
2. **Zărnescu O.** 2003. *Embriologie experimentală*. Editura Universității București, 271 pagini. ISBN: 973-575-810-5
3. **Zărnescu O.** 2002. *Biologia moleculară a dezvoltării Partea a II-a*. Editura Universității București, 260 pagini. ISBN: 973-575-637-4
4. **Zărnescu O.** 1999. *Biologia moleculară a dezvoltării. Partea I*. Editura Universității București, 224 pagini. ISBN: 973-575-389-8
5. Manolache V., **Zărnescu O.** 1993. *Citologie - Histologie. Lucrări practice*. Tipografia Universității București, 173 pagini.

II. Capitole publicate în volume colective

1. Seciu AM., Craciunescu O., **Zărnescu O.** 2019. Advanced regenerative techniques based on dental pulp stem cells for the treatment of periodontal disease. În: *Periodontology and Dental Implantology*, IntechOpen, ISBN: 978-1-78984-932-5.
2. Brehar FM., Bleotu C., **Zărnescu O.**, Gorgan M. 2015. Glioblastoma Orthotopic Xenografts. În: *Experimental Models in Glioblastoma Research*, (Brehar FM., Gorgan MR., Eds), Nova Nova Science Publishers, Inc., 59-72. ISBN: 978-1-63321-924-3
3. Moldovan L, Crăciunescu O., **Zărnescu O.**, Popescu M.C., Lungu M., Radu G. L. 2007. Tehnici actuale și de perspectivă pentru testarea in vitro a biocompatibilitatii biomaterialelor colagenice de uz medical. În: *Tehnici Experimentale în Bioanaliză* (coordonator G.L. Radu), Editura Printech, p. 250-279. ISBN: 978-973-718-856-4
4. Moldovan L, **Zărnescu O.**, Flămânzeanu M., Radu G. L. 2002. Analiza structurală și ultrastructurală a constituenților macromoleculari din cornee. În: *Progrese în bioanaliză* (coordonator G.L. Radu), Editura Ars Docendi, pp. 61-108. ISBN: 973-558-015-2
5. Caloianu M. **Zărnescu O.**, 1999. Caracterizarea structurală și ultrastructurală a celulelor sanguine la nevertebrate și vertebrate inferioare. În: *Tratat de hematologie animală* (coordonator N. Manolescu), vol. I, Editura Fundației România de Măine, pag. 89-154. ISBN: 973-582-111-7

III. Articole publicate in extenso

III.1. În reviste cotate ISI:

1. Seciu AM., Craciunescu O., Stanciuc AM., **Zărnescu O.** 2019. Tailored biomaterials for therapeutic strategies applied in periodontal tissue engineering. *Stem Cells and Development*. vol. 28, no. 15, 963–973
2. Craciunescu O., Gaspar-Pintilieșcu A., Seciu AM., Moldovan L., **Zărnescu O.** 2019. Structure and cytocompatibility of a porous biomimetic material for oral tissue wound healing. *physica status solidi (a) – applications and materials science*, doi.org/10.1002/pssa.201800638
3. Craciunescu O., Seciu AM., Manoiu VS., Trif M., Moisei M., Nicu AI., **Zărnescu O.** 2019. Biosynthesis of silver nanoparticles in collagen gel improves their medical use in periodontitis treatment. *Particulate Science and Technology* vol. 37, no. 6, 753-759.
4. **Zărnescu O.**, Petrescu AM., Gaspar A., Craciunescu O. 2017. Effect of sublethal nickel chloride exposure on crayfish, *Astacus leptodactylus* ovary: An ultrastructural, autometallographic, and electrophoretic Analyses. *Microscopy and Microanalysis*, vol. 23, no. 3, 668-678.
5. Petrescu AM., Moldovan L., **Zărnescu O.** 2016. Morphology and ultrastructure of the somatic cells in *Astacus leptodactylus* ovary. *Journal of Morphology* vol. 277, no. 1, 118-127.
1. Petrache Voicu SN., Dinu D., Sima C., Hermenean A., Ardelean A., Codrici E., Stan MS., **Zărnescu O.**, Dinischiotu A. 2015. Silica Nanoparticles Induce Oxidative Stress and Autophagy but Not Apoptosis in the MRC-5 Cell Line. *International Journal of Molecular Sciences* vol. 16, no. 12, 29398-29416.
2. Dulugiac M., Moldovan L., **Zărnescu O.** 2015. Comparative studies of mesenchymal stem cells derived from different cord tissue compartments - The influence of cryopreservation and growth media. *Placenta* vol. 36, no. 10, 1192-203.
3. Badea P., Petrescu A., Moldovan L. **Zărnescu O.** 2015. Structural Heterogeneity of Intraluminal Content of The Prostate: A Histochemical and Ultrastructural Study. *Microscopy and Microanalysis*, vol. 21, no. 2, 368-376.
4. Serban AI, Stanca L, Sima C, Staicu AC, **Zărnescu O.**, Dinischiotu A. 2015. Complex responses to Si quantum dots accumulation in carp liver tissue: Beyond oxidative stress. *Chemico-Biological Interactions* vol. 239, no. 5, 56-66.
5. Dulugiac M, Horeanga I, Torcatoru A, Bardas A, Matei G, **Zărnescu O.** 2014. Factors which can influence the quality related to cell viability of the umbilical cord blood units. *Transfus Apher Sci*. Vol. 51, no. 3, 90-98.

6. Craciunescu O., Gaspar A., Trif M., Moisei M., Oancea A., Moldovan L., **Zarnescu O.** 2014. Preparation and characterization of a collagen-liposome-chondroitin sulfate matrix with potential application for inflammatory disorders treatment. *J Nanomat* Article ID 903691.
7. Marinescu SM., **Zarnescu O.**, Mihai IR., Giuglea C., Sinescu RD. 2014. An animal model of peripheral nerve regeneration after the application of a collagen-polyvinyl alcohol scaffold and mesenchymal stem cells. *Rom J Morphol Embryol* vol. 55, no. 3, 891-903.
8. Burlibaşa L., **Zarnescu O.** 2013. *In vivo* effects of Trichostatin A – A histone deacetylase inhibitor – On chromatin remodeling during *Triturus cristatus* spermatogenesis. *Animal Reproduction Science* vol. 142, no. 1-2, 89-99.
9. Stanca L., Petrache SN., Şerban AI., Staicu AC., Sima C., Munteanu MC., **Zarnescu O.**, Dinu D., Dinischiotu A. 2013. Interaction of silicon-based quantum dots with gibel carp liver: oxidative and structural modifications. *Nanoscale Research Letters*, vol. 8, no. 1, 254.
10. **Zarnescu O.**, Stavri S., Moldovan L. 2013. Inhibition of caudal fin regeneration in *Corydoras aeneus* by lithium chloride. *Micron* vol. 45, 66-75.
11. Stavri S., **Zarnescu O.** 2013. The Expression of Alkaline Phosphatase, Osteopontin, Osteocalcin, and Chondroitin Sulfate during Pectoral Fin Regeneration in *Carassius auratus gibelio*: A Combined Histochemical and Immunohistochemical Study. *Microscopy and Microanalysis*, vol. 19, no. 1, 233-242
12. Stanca L, Petrache SN, Radu M, Serban AI, Munteanu MC, Teodorescu D, Staicu AC, Sima C, Costache M, Grigoriu C, **Zarnescu O**, Dinischiotu A. 2012. Impact of silicon-based quantum dots on the antioxidative system in white muscle of *Carassius auratus gibelio*. *Fish Physiol Biochem* vol. 38, no. 4, 963-975.
13. Arsene C., **Zarnescu O.**, Puiu M., Cucu N. 2012. Parental allele methylation mapping method for Prader-Willi syndrome primary diagnosis in the roumanian population. *Revue Roumaine de Chimie*, 57 (12), 1041-1047.
14. **Zarnescu O**, Moldovan L., Trif M., Moisei M., Craciunescu O. 2011. Light and electron microscopy characterization of a collagen-liposome-entrapped chondroitin sulfate composite as intra-articular drug delivery system. *Journal of Controlled Release*, vol. 152, Supplement 1, e113-e114 .
15. **Zarnescu O.**, Brehar F.M., Bleotu C., Gorgan R.M. 2011. Co-localization of PCNA, VCAM-1 and caspase-3 with nestin in xenografts derived from human anaplastic astrocytoma and glioblastoma multiforme tumor spheres. *Micron*, vol. 42, no. 8, 793-800.
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17. Craciunescu O., Tardei C., Moldovan L., **Zarnescu O.** 2011. Magnesium substitution effect on porous scaffolds for bone repairing. *Central European Journal of Biology*, vol. 6, no. 3, 301-313
18. **Zarnescu O.**, Craciunescu O., Moldovan L. 2010. Collagen-chondroitin sulphate-hydroxyapatite porous composites: a histochemical and electron microscopy approach. *Microscopy and Microanalysis*, vol. 16, 137-142.
19. **Zarnescu O.** 2009. Tracing the accumulation and effects of mercury uptake in the previtellogenic ovary of crucian carp, *Carassius auratus gibelio* by autometallography and caspase-3 immunohistochemistry. *Histology & Histopathology*, vol. 24, no.2, 141-148.
20. Moldovan L., Craciunescu O., Oprita E.I., Balan M., **Zarnescu O.** 2009. Collagen-chondroitin sulfate-hydroxyapatite porous composites: preparation, characterization and in vitro biocompatibility testing. *Romanian Biotechnological Letters*, vol. 14, no. 3, 4459-4466.
21. **Zarnescu O.**, Brehar FM., Chivu M., Ciurea V. 2008. Immunohistochemical localization of caspase-3, caspase-9 and Bax in U87 Glioblastoma Xenografts. *Journal of Molecular Histology* vol. 39, no. 6, 561-569.
22. Craciunescu O., Lungu M., **Zarnescu O.**, Gaspar, A., Moldovan L., 2008, Polyurethane-based materials covered with natural polymers for medical applications. *Revista de Materiale Plastice*, vol. 45, no. 2, 163-166.
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25. Moldovan L., Craciunescu O., **Zarnescu O.**, Macocinschi D., Bojin D. 2008. Preparation and characterization of new biocompatibilized polymeric materials for medical use. *Journal of Optoelectronics and Advanced Materials*, 10, no.4, 942-947.
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28. **Zarnescu O.** 2007. Ultrastructure of the skin melanophores and iridophores in paddlefish, *Polyodon spathula*. *Micron*, vol. 38, no. 1, 81-84.
29. Oprita E.I, Moldovan L., Crăciunescu O., Buzgariu W., Tardei C., **Zarnescu O.** 2006. A bioactive collagen-β tricalcium phosphate scaffold for tissue engineering. *Central European Journal of Biology*, vol. 1, no. 1, 61-72.
30. **Zarnescu O.**, Zamfirescu G. 2006. Effects of lithium carbonate on rat seminiferous tubules: an ultrastructural study. *International Journal of Andrology*, vol. 29, no. 6, 576-582.
31. **Zarnescu O.** 2005. Ultrastructural study of spermatozoa of the paddlefish, *Polyodon spathula*. *Zygote*, vol. 13, no. 3, 241-247.

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33. Fukumoto M., **Zarnescu O.** 2003. Acrosome differentiation and the acrosome reaction in ascidian spermatozoa: *Ascidella aspersa* and *Ascidia mentula* with some implications for tunicate phylogeny. *Marine Biology*, vol. 143, nr. 6, 1151-1160.

III.2. În reviste indexate BDI (Baze de Date Internaționale)

1. Seciu AM., Gaspar A., Stefan LM., Moldovan L., Craciunescu O., **Zarnescu O.** 2016. Riboflavin cross-linking of collagen porous scaffolds for periodontal regeneration. *Studia Universitatis "Vasile Goldiș", Seria Științele Vieții* Vol. 26 (2), 243-249.
2. Craciunescu O., Moldovan L., Moisei M., Utoiu E., **Zarnescu O.**, Roseanu A., Trif M. 2014. Selection of an efficient chondroitin sulfate-liposome delivery system as chondroprotective agent for local inflammation treatment. *Studia Universitatis "Vasile Goldiș" Seria Științele Vieții (Life Sciences Series)*, Vol. 24, supplement 1, 93-101.
3. **Zarnescu O.**, Moldovan L., Trif M., Moisei M., Gaspar A., Leau L. 2012. Porous scaffold made from collagen and liposomes coated with plant derived polysaccharide-*in vivo* study. *MRS Online Proceedings Library*, Vol. 1376 , imrc11-1376-s11-p08.
4. Mihai R., Florescu I.P., **Zarnescu O.**, Moldovan L., Stanciuc A.M. 2011. *In vitro*, done on stem cell cultures biocompatibility testing of nervous conduits. *Acta Medica Transilvanica*, vol. 2, no. 3, 307-309.
5. Brehar FM., Ciurea AV., Gorgan RM., Bleotu C., Tascu A., Radulescu RI., Matei L., **Zarnescu O.** 2011. Induction of differentiation inhibits the tumorigenic potential of glioblastoma cancer stem cells. *Romanian Neurosurgery*, Vol. XVIII, no. 4, , 425 – 433.
6. Brehar FM., Ciurea AV., **Zarnescu O.**, Bleotu C., Gorgan RM., Dragu D., Matei L. 2010. Infiltrating growing pattern xenografts induced by glioblastoma and anaplastic astrocytoma derived tumor stem cells. *Chirurgia*, vol. 105, 685-694.
7. Brehar FM, Ciurea AV, Chivu M, **Zarnescu O.**, Radulescu R, Dragu D. 2008. The development of xenograft glioblastoma implants in nude mice brain. *J Med Life*. vol. 1, 275-286.
8. Crăciunescu O., **Zarnescu O.**, Lungu M., Macocinschi D., Moldovan L. 2007. Natural fibercoated polyurethane for medical device fabrication. International conference on Nanomedicine, 9-11 septembrie, Chalkidiki, Grecia (C. Kiparissides, Ed), 97-103.
9. Trif M., Moldovan L., **Zarnescu O.** 2007. Investigation of liposome based chondroitin sulphate effects on human chondrocytes. International Semiconductor Conference, 15-17 octombrie, Sinaia, CAS 2007 Proceedings, vol.1, 151-154.
10. Oprea E.I., Moldovan L., Crăciunescu O., **Zarnescu O.** 2006. In vitro evaluation of a microporous collagen-β tricalcium phosphate composite for bone repair. În: *Biomaterials in Regenerative Medicine, Proceedings of the International Conference, Vienna, October 22-25, Austria*, A. J. Nadolny (Ed.), 87-90. ISBN: 3-200-00823-7
11. Stan C., Cîmpean A., Diaconeasa A., **Zarnescu O.**, Iordachescu D. 2006. Pattern of keratins distribution in human psoriatic keratinocytes. *Dermato.ro*, IV, 36-39.
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15. Munteanu C., Zamfirescu G., Ciobotaru D., **Zarnescu O.**, Meșter L. 2005. Cytological aspects of glial cells after treatment with lithium mineral water. În: *Proceedings of Balkan Scientific Conference of Biology in Plovdiv (Bulgaria). 19-21 May 2005*. B. Gruev, M. Nikolova and A. Donev (Eds.), Plovdiv University Press, 612-624.
16. Cîmpean A., **Zarnescu O.** 2005. An ultrastructural study of cartilage alterations in human osteoarthritis. *Rev. Roum. Biol. Biol. Anim.*, 49, 99-105.
17. Craciunescu O., Moldovan L., Buzgariu W., **Zarnescu O.**, Bojin D, Radu G.L. 2004. Preparation of an elastin–collagen artificial matrix. Evaluation of its structure and biocompatibility. *Romanian Biotechnological Letters* vol. 9, no.4, 1785-1792.
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