

LUCRĂRI PUBLICATE, BREVETE ȘI PROIECTE DE CERCETARE

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 constituienților 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. Negrescu AM., Ionascu .I, Necula MG., Tudor N., Kamaleev M., **Zărnescu O.**, Mazare A., Schmuki P., Cimpean A. 2025. Lateral Spacing of TiO₂ Nanotube Coatings Modulates In Vivo Early New Bone Formation. *Biomimetics* 10(2), 81.
2. Ristea M.E, **Zărnescu O.** 2024. Effects of indigo carmine on growth, cell division, and morphology of *Allium cepa* L. root tip. *Toxics* 12, 194
3. Ristea M.E., **Zărnescu O.** 2023. Indigo Carmine: Between Necessity and Concern. *Journal of Xenobiotic* 13, 509-528.
4. Porumb IG., Coricovac AM., Raica Il., **Zărnescu O.**, Didilescu AC. 2022. Healthy birth in a case of total globozoospermia after intracytoplasmic sperm injection and assisted oocyte activation. *Rom J Morphol Embryol* 63 (2), 459-463.
5. Iosageanu A., Ilie D., Craciunescu O., Seciu-Grama AM., Oancea A., **Zărnescu O.**, Moraru I., Oancea F. 2021. Effect of fish bone bioactive peptides on oxidative, inflammatory and pigmentation processes triggered by uvb irradiation in skin cells. *Molecules*, 26, 2691.
6. Craciunescu O, Seciu AM., **Zărnescu O.** 2021. In vitro and in vivo evaluation of a biomimetic scaffold embedding silver nanoparticles for improved treatment of oral lesions. *Materials Science & Engineering C*, 2, 123, 112015.
7. 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
8. 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
9. Craciunescu O., Seciu AM., Manoiu VS., Trif M., Moisei M., Nicu Al., **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.

10. **Zarnescu 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.
11. Petrescu AM., Moldovan L., **Zarnescu O.** 2016. Morphology and ultrastructure of the somatic cells in *Astacus leptodactylus* ovary. *Journal of Morphology* vol. 277, no. 1, 118-127.
12. 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.
13. Dulugiac M., Moldovan L., **Zarnescu 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.
14. Badea P., Petrescu A., Moldovan L. **Zarnescu O.** 2015. Structural Heterogeneity of Intraluminal Content of The Prostate: A Histochemical and Ultrastructural Study. *Microscopy and Microanalysis*, vol. 21, no. 2, 368-376.
15. Serban AI, Stanca L, Sima C, Staicu AC, **Zarnescu 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.
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17. 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.
18. 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.
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24. 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.
25. **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 .
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III.2. În reviste indexate BDI (Baze de Date Internaționale)

1. Ristea ME., **Zarnescu O.** 2022-2023. Fish larvae: an alternative animal model for testing the toxicity of food additives *Rev. Biol. Biomed. Sci.* vol. 5, no. 1, 19-27.
2. Amfim A., Botezatu A., Anton G., Burlibaşa L., **Zarnescu O.**, Albu C., Matei M., Tanase A., Radu LG., Alexandrescu L., Cucu N. 2021. Canine Model For The Study of the Epigenetic Factors Involved in Mammary Tumor Development. *Biointerface Research in Applied Chemistry* Vol. 11, no. 1, 7543 – 7557.
3. Ristea ME., **Zarnescu O.** 2020. The contribution of fish models in understanding of blood disorders. *Rev. Biol. Biomed. Sci.* vol. 3, no. 1, 55-77.
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V. Brevete

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VI. Director / Responsabil proiecte de cercetare

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Responsabil UB

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