



**Europass
Curriculum Vitae**

Personal information

First name(s) / Surname(s) **Otilia ZARNESCU**
Address(es) Department of Biochemistry and Molecular Biology
Faculty of Biology, Bucharest University,
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Positions Held Vice Dean for Research (2012-)
Director, PhD Program in Biology (1.11.2011-1.05.2012)
Elected senator to the University of Bucharest (2011-)
Member of the Faculty of Biology Council (2008-)
Head of Animal Biology Department (2008-2010)

Occupational field **Histology and Embryology, Developmental biology, Stem cell biology and medical applications, Microscopy**

Work experience

Dates 2004 to present
Occupation or position held Full Professor
Main activities and responsibilities Teaching: Histology and embryology, Developmental Biology, Stem cell biology and medical applications,
Microscopy; Project coordinator of research projects
Name and address of employer Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
Sector Education and research
Dates 2000 - 2004
Occupation or position held Associate Professor
Main activities and responsibilities Teaching: Developmental Biology; Laboratory Activity in the field of Developmental Biology,
Histology and embryology
Name and address of employer Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
Sector Education and research
Dates 1996 - 2000
Occupation or position held Lecturer
Main activities and responsibilities Teaching: Developmental Biology; Laboratory Activity in the field of Developmental Biology,
Histology and embryology
Name and address of employer Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
Sector Education and research
Dates 1991-1996
Occupation or position held Assistant Professor
Main activities and responsibilities Laboratory Activity in the field of Cell biology and Histology and embryology
Name and address of employer Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
Type of business or sector Education and research

Dates 1990-1991
Occupation or position held Researcher
Main activities and responsibilities Research activity
Name and address of employer National Institute of Research and Development for Biological Sciences, Splaiul Independentei No. 296, 060031, Bucharest, Romania
Sector Research
Dates 1988-1990
Occupation or position held Biologist, Clinical laboratory
Main activities and responsibilities Blood testes
Name and address of employer Oltenita Hospital, Oltenita, Romania
Sector Clinical laboratory

Education and training

Dates March 2007
Title of qualification awarded Internal auditor for the Quality Management System
Principal subjects/occupational skills covered Internal auditor (SR EN ISO 19011:2003) for the Quality Management System (SR EN ISO 9001:2001).
Name and type of organisation Simtex-OC
providing education and training
Dates September 2001
Title of qualification awarded Guest Associate Professor
Principal subjects/occupational skills covered JSPS (Japan Society for the Promotion of Science) fellow/research
Name and type of organisation Nagoya City University, Japan
providing education and training
Dates 1998
Title of qualification awarded PhD in Cell and Molecular Biology
Principal subjects/occupational skills covered Study of endocytosis in oocytes of lower vertebrate/Cell biology, Immunohistochemistry, Electron microscopy
Name and type of organisation Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
providing education and training
Dates 05/1989 – 08/1989
Title of qualification awarded Training in a Hematology
Principal subjects/occupational skills covered Hematology and Serology
Name and type of organisation National Institute of Hematology and Blood Transfusion, Bucharest, Romania
providing education and training
Dates 1987-1988
Title of qualification awarded Master of Science in Biology
Principal subjects/occupational skills covered Cell and Molecular Biology
Name and type of organisation Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
providing education and training
Dates 1983-1987
Title of qualification awarded Bachelor's Degree in Biology
Principal subjects/occupational skills covered Biology

Name and type of organisation Bucharest University, Bd M Kogălniceanu, no., 36-46, 050107, Bucharest, Romania
providing education and training

Mother tongue(s) **Romanian**

Membership in professional associations ELSO (European Life Scientist Organization)
TERMIS (Tissue Engineering & Regenerative Medicine Society)
American Nano Society
EACR (European Association for Cancer Research)
MSA (Microscopy Society of America)
The Society for Histochemistry

Self-assessment	Understanding		Speaking		Writing
European level (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2 Proficient user	C2 Proficient user	B2 Proficient user	B2 Proficient user	C1 Proficient user
	(*) <i>Common European Framework of Reference (CEF) level</i>				

Publications

Textbooks:

1. **Zarnescu O.** 2013, *General histology*. Editura Universității din București, 326 p. ISBN: 978-606-16-0141-7. (In Romanian)
2. **Zarnescu O.** 2003, *Experimental Embryology*. Editura Universitatii Bucuresti, 271 p. ISBN: 973-575-810-5 (In Romanian)
3. **Zarnescu O.** 2002, *Developmental Biology. Vol. 2*. Editura Universitatii Bucuresti, 260 p. ISBN: 973-575-637-4 (In Romanian)
4. **Zarnescu O.** 1999, *Developmental Biology. Vol. 1*. Editura Universitatii Bucuresti, 224 p. ISBN: 973-575-389-8 (In Romanian).
5. Caloianu M. **Zarnescu O.** 1999, Structural and ultrastructural characterization of blood cells at invertebrates and lower vertebrates. In: *Treatise of Animal Hematology* (N. Manolescu, Ed.), vol. I, Editura Fundatiei Romania de Maine, p. 89-154. ISBN: 973-582-111-7 (In Romanian)

Papers published in international peer reviewed journals with impact factor

1. 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. Impact factor: 1,735
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. Impact factor: 2,862
2. 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. Impact factor: 2,710
3. 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. Impact factor: 3,007
4. 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. Impact factor: 0,723
5. Dulugiac M, Horeanga I, Torcatoru A, Bardas A, Matei G, **Zarnescu 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. Impact factor: 1,072
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. Impact factor: 1,611
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. Impact factor: 0,723

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. Impact factor: 1,511
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. Impact factor: 2,73.
10. **Zarnescu O.**, Stavri S., Moldovan L. 2013. Inhibition of caudal fin regeneration in *Corydoras aeneus* by lithium chloride. *Micron* vol. 45, 66-75. Impact factor: 1,876.
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 . Impact factor: 3,007
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. Impact factor: 1,607.
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. Impact factor: .
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 . Impact factor: 7.164.
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. Impact factor: 1,876.
16. Dinu D., Bodea G.O., Ceapa C.D., Munteanu M.C., Roming F.I., Serban A.I., Hermeneanu A., Costache M., **Zarnescu O.**, Dinischiotu A. 2011. Adapted response of the antioxidant defense system to oxidative stress induced by deoxynivalenol in Hek-293 cells. *Toxicon*, vol. 57, no. 7-8, 1023-1032. Impact factor: 2,128.
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. Impact factor: 0,915.
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. Impact factor: 3,035.
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. Impact factor: 2,404.
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. Impact factor: 0,152.
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. Impact factor: 1,752.
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. Impact factor: 0,319.
23. Burlibaşa L., **Zarnescu O.**, Cucu N., Gavrilă L. 2008. Dynamics of chromatin structure and epigenetic mechanism in *Triturus cristatus* oogenesis. *Zygote*, 16, no. 4, 315-326. Impact factor: 1,067.
24. Trif M., Moldovan L., Moisei M., Craciunescu O., **Zarnescu O.** 2008. Liposomes entrapped chondroitin sulphate: Ultrastructural characterization and *in vitro* biocompatibility. *Micron*, 39, no. 7, 1042-1045. Impact factor: 1,651.
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. Impact factor: 0,433.
26. Oprea E.I., Moldovan L., Craciunescu O., **Zarnescu O.** 2008. In Vitro Behaviour of Osteoblast Cells Seeded into a COL/β-TCP Composite Scaffold. *Central European Journal of Biology*, vol. 3, no. 1, 31-37. Impact factor: 0,915.
27. **Zarnescu O.** 2007. Immunohistochemical distribution of hyperacetylated histone H4 in testis of paddlefish *Polyodon spathula*: ultrastructural correlation with chromatin condensation. *Cell Tissue Research*, vol. 328, no. 2, 401-410. Impact factor: 2,613.
28. **Zarnescu O.** 2007. Ultrastructure of the skin melanophores and iridophores in paddlefish, *Polyodon spathula*. *Micron*, vol. 38, no. 1, 81-84. Impact factor: 1,876.
29. Oprea E.I., Moldovan L., Craciunescu 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. Impact factor: 0,250.
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. Impact factor: 2,183.
31. **Zarnescu O.** 2005. Ultrastructural study of spermatozoa of the paddlefish, *Polyodon spathula*. *Zygote*, vol. 13, no. 3, 241-247. Impact factor: 1,124.
32. **Zarnescu O.** 2004. Ultrastructural observations of previtellogenic ovarian follicle of dove. *Zygote*, vol. 12, nr.4, 285-292. Factor impact 1,416.

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. Factor impact 2,391.

Papers published in journals indexed in international databases

1. 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 Goldis" Seria Științele Vieții (Life Sciences Series)*, Vol. 24, supplement 1, 93-101.
2. **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.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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
10. Stan C., Cîmpean A., Diaconeasa A., **Zarnescu O.**, Iordachescu D. 2006. Pattern of keratins distribution in human psoriatic keratinocytes. *Dermato.ro*, IV, 36-39.
11. Zamfirescu G., **Zarnescu O.**, Stănescu M., Teleianu C., Munteanu C., Ciobotaru D., Cintează C. 2005. The effects of estrogen upon ischemic cardiomyocytes. In vitro studies. 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, 648-662.
12. Ciobotaru D., Munteanu C., Zamfirescu G., **Zarnescu O.** 2005. Lithium mineral water effect on Wnt pathway signaling of glial cells. În: *The Balkan Scientific Conference of Biology in Plovdiv (Bulgaria)*. Proceedings. B. Gruev, M. Nikolova and A. Donev (Eds.), Plovdiv University Press, 625-636.
13. Moldovan L., Buzgariu W., Crăciunescu O., Oprea E.I., **Zarnescu O.** 2005. Preparation of porous collagen matrices and their interaction with different cell types. 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, 671-681.
14. 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.
15. Cîmpean A., **Zarnescu O.** 2005. An ultrastructural study of cartilage alterations in human osteoarthritis. *Rev. Roum. Biol. Biol. Anim.*, 49, 99-105.
16. 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.
17. Craciunescu O., Moldovan L., Bratosin D., **Zarnescu O.**, Radu G.L. 2004, The characterization and in vitro testing of a dermal shield containing soluble elastin. *Rev. Roum. Biol. Biol. Anim.* vol. 49, nr.1-2, 105–111.
18. Moldovan L., Oprea E. I., Craciunescu O., Bojin D., **Zarnescu O.** 2004. Histochemical and scanning electron microscopic characterization of tricalcium phosphate – collagen conjugated sponges. *Romanian Biotechnological Letters* vol. 9, no.5, 1887-1893.
19. Buzgariu W., Chera S., Coroiu V., **Zarnescu O.**, Titescu Gh. 2004. Fibronectin distribution in extracellular matrix of cells cultured in deuterated media. *Rev. Roum. Biol. Biol. Anim.* vol. 49, nr. 1-2, 89-96.
20. Cîmpean A., **Zarnescu O.**, Stan C., Diaconeasa A., Nae S., Iordachescu D. 2004. Studii comparative privind exprimarea moleculelor Bcl-2 și Bax de catre keratinocitele normale și psoriazice. *Analele SNBC*, vol.IX, nr.2, 257-261.
21. **Zarnescu O.**, Meșter L. 2003. *Epidermal ultrastructure of paddlefish, Polyodon spathula*. *Rev. Roum. Biol. Biol. Anim.* vol. 48, nr.1-2, 83-90.
22. Munteanu C., Zamfirescu G., Ciobotaru D., Nica A.S., **Zarnescu O.**, Meșter L. 2003. Lithium therapeutically usage-Present and perspectives. *Analele Univ. Buc. LII*, 87-97.

23. Moldovan L., Buzgariu W., **Zarnescu O.**, Flamânzeanu M. 2003. In vitro biocompatibility evaluation of some corneal biopolymers. *Rom. Biol. Sci.* vol. I, nr. 1-2, 11-19.
24. Buzgariu W., **Zarnescu O.**, Caloianu M., Coroiu V., Titescu Ghe., Ștefanescu I. 2003. Ultrastructural and functional changes in mitochondria induced by heavy water in vitro. *Rev. Roum. Biol. Biol. Anim.*, vol. 48, nr. 1-2, 103-114.
25. Moldovan L., Cîmpean A., **Zarnescu O.**, Flamânzeanu M., Nicolae C., Dumitrescu D. 2002. Matrix metalloproteases involved in injured corneal tissue remodelling. *Roum. Biotechnol. Lett.* vol. 7, nr. 6, 995-1002.
26. Cîmpean A., **Zarnescu O.**, Moldovan L., Nicolae C., Flamânzeanu M. 2002. In vitro evaluation of biosynthetic activity of the human osteoarthritic chondrocytes embedded in collagen gel. *Roum. Biotechnol. Lett.*, vol. 7, nr. 6, 987-994.
27. Buzgariu W., **Zarnescu O.**, Caloianu M., Cîmpean A., Titescu Gh. 2002. Effects of heavy water on ultrastructural and functional status of Hep2 and CHO cells lysosomes. *Rev. Roum. Biol. Biol. Anim.* vol. 47, nr. 1-2, 87-96.
28. Cîmpean A., Caloianu M., **Zarnescu O.**, Bătrîna D. 2002. Cartilage alterations in human osteoarthritis. I. A structural study. *Rom. J. Biol. Sci.* vol. IV, nr. 1-4, 27-34.
29. **Zarnescu O.** 2002. Immunocytochemical localization of actin and a-tubulin in previtellogenic oocytes of *Carassius auratus gibelio*. *Rev. Roum. Biol. Biol. Anim.* vol. 47, nr. 1-2, 53-57.
30. Moldovan L., **Zarnescu O.**, Oancea A., Cîmpean A., Constantinescu L. 2001. Corneal collagen interactions with proteoglycans and glycosaminoglycans. *Roum. Biotechnol. Lett.* vol. 6, nr. 2, 137-145.
31. Bunea M., **Zarnescu O.** 2001. New current aspects on the immunohistochemical techniques. *Roum. Biotechnol. Lett.* vol. 6, nr. 3, 177-206.
32. **Zarnescu O.** 2001. Immunocytochemical localization of a-tubulin in oocytes of *Rana ridibunda*. *Rev. Roum. Biol. Biol. Anim.* vol. 46, nr.1-2, 79-83.
33. Oancea A., Popa E., **Zarnescu O.**, Angelescu N. 2000. Efectele compreselor cicatrizante asupra plagilor (Nota preliminară). *Chirurgia* vol. 95, nr.3, 245-252.
34. Meșter L., **Zarnescu O.** 2000. Histological and histochemical study of the skin in paddlefish, *Polyodon spathula*. *Rev. Roum. Biol. Biol. Anim.* vol. 45, nr. 2, 177-181.
35. **Zarnescu O.**, Manolache V., Meșter L. 2000. Histochemical localisation of mercury in the kidney of *Carassius auratus gibelio*. *Rev. Roum. Biol. Biol. Anim.* vol. 45, nr. 2, 161-165.
36. Moldovan L., **Zarnescu O.**, Bunea M., Constantinescu L. 2000. Changes induced by a collagen and glycosaminoglycan gel in corneal wound healing process. *J. Med. Biochem.* vol. 4, nr. 1, 43-50. [44](#)
37. Cîmpean A., **Zarnescu O.**, Caloianu M., Moldovan L., Efimov N. 2000. Glycosaminoglycan synthesis by human osteoarthritic chondrocytes cultured in alginate beads. *Roum. Biotechnol. Lett.* vol. 5, nr.2, 127-134.
38. Moldovan L., **Zarnescu O.**, Bunea M., Constantinescu L. 2000. Collagen and glycosaminoglycan gel effect on epithelial wound healing in rabbit eyes. *Rev. Roum. Biol. Biol. Anim.* vol. 45, nr. 2, 191-196.
39. Cîmpean A., Caloianu M., **Zarnescu O.**, Bătrîna A., Efimov N. 1999. Synovial membrane pathology and its implication in human osteoarthritis. *J. Med. Biochem.* vol. 3, nr. 4, 379-387.
40. Cîmpean A., Caloianu M., **Zarnescu O.**, Bojinca M. 1999. Synovial fluid alterations in human rheumatoid arthritis. *J. Med. Biochem.* vol. 3, nr. 1, 79-86.
41. Moldovan L., **Zarnescu O.**, Bunea M., Craciunescu O., Constantinescu L. 1999. Comparative studies on in vitro fibrillogenesis of collagen from fish and pig cornea. *Rev. Roum. Biol. Biol. Anim.* vol. 44, nr. 1, 27-33.
42. **Zarnescu O.**, Meșter R. 1999. Incorporation of vitellin-gold by ovarian follicles of *Carassius auratus gibelio*. I. In vitro studies. *Rev. Roum. Biol. Biol. Anim.* vol. 44, nr. 1, 3-13.
43. **Zarnescu O.** 1999. Incorporation of vitellin-gold by ovarian follicles of *Carassius auratus gibelio*. II. In vivo studies. *Rev. Roum. Biol. Biol. Anim.* vol. 44, nr. 2, 159-164.
44. **Zarnescu O.**, Meșter R. 1999. Immunolocalization of clathrin in the vitellogenic oocytes of *Triturus vulgaris*. *Rev. Roum. Biol. Biol. Anim.* vol. 44, nr. 1, 15-17.
45. Cîmpean A., Caloianu M., **Zarnescu O.**, Moldovan L., Efimov N., Ranga O. 1998. Structural, ultrastructural and biochemical aspects of the cartilaginous extracellular matrix degradation in human knee osteoarthritic lesions. *J. Med. Biochem.* vol. 2, nr. 4, 313-322.
46. **Zarnescu O.**, Meșter R. 1998. Clathrin immunolocalization during crucian carp oogenesis. *Rev. Roum. Biol. Biol. Anim.* vol. 43, nr. 1-2, 137-140.
47. Lungu M., Pogonariu A., Precup M., Moldovan L., Oancea A., **Zarnescu O.** 1997. Increasing biocompatibility of synthetic polymers for medical use by compounding with collagen. *Roum. Biotechnol. Lett.* vol. 2, nr. 2, 153-161.
48. Moldovan L., Caloianu M., **Zarnescu O.**, Craciunescu O. 1997. Immunolocalization of chondroitin sulfate in the cornea of some vertebrates. *Rev. Roum. Biol. Biol. Anim.* vol. 42, nr. 2, 177-182.
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4. **PN 2 61-012/2007 (2007-2010) :** *Developing a new method of treatment of bone defects using mesenchymal stem cells and biocompatible composite materials*
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