



**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,
Spl. Independentei 91-95, Bucharest,
Telephone(s) +40213102843
Fax(es) +40213102843
E-mail otilia.zarnescu@bio.unibuc.ro

Positions Held 2020-present: Member of National Council of Certification of Titles, Diplomas and University Certificates (CNATDCU, Panel 3: *Biomedical sciences*)
2016 - present: Director, PhD Program in Biology, Bucharest University, Faculty of Biology
2016-present: ARACIS (The Romanian Quality Assurance Agency for Higher Education) evaluator
2012 - 2015: Vice Dean for Research, Bucharest University, Faculty of Biology
2012 - present: Editor, The Bucharest University Press
04/2011-2012: Member of National Council of Certification of Titles, Diplomas and University Certificates (CNATDCU, Panel 3: *Biomedical sciences*)
2011 - present: Elected senator to the University of Bucharest
2008 - present: Member of the Faculty of Biology Council
2008 - 2010: Head of Animal Biology Department, Bucharest University, Faculty of Biology

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 Internal auditor (SR EN ISO 19011:2003) for the Quality Management System (SR EN ISO 9001:2001).
 covered
 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 JSPS (Japan Society for the Promotion of Science) fellow/research
 covered
 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 Study of endocytosis in oocytes of lower vertebrate/Cell biology, Immunohistochemistry, Electron microscopy
 covered
 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 Hematology and Serology
 covered
 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 Cell and Molecular Biology
 covered
 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 Biology
 covered
 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
<i>European level</i> (*)	Listening	Reading	Spoken interaction	Spoken production	
English	C2 Proficient user	C2 Proficient user	B2 Proficient user	B2 Proficient user	C1 Proficient user

(*) *Common European Framework of Reference (CEF) level*

Selected publications

1. Craciunescu O, Seciu AM., **Zarnescu 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.
2. Seciu AM., Craciunescu O., Stanciuc AM., **Zarnescu O.** 2019. Tailored biomaterials for therapeutic strategies applied in periodontal tissue engineering. *Stem Cells and Development*. vol. 28, no. 15, 963–973
3. Craciunescu O., Gaspar-Pintilie A., Seciu AM., Moldovan L., **Zarnescu 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
4. Craciunescu O., Seciu AM., Manoiu VS., Trif M., Moisei M., Nicu Al., **Zarnescu 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.
5. **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.
6. 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.
7. 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* 21, 2, 368-376.
8. 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* 36, 10, 1192-203.
9. 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. *Journal of Nanomaterials* Article ID903691.
10. 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. *Transfusion and Apheresis Science* 51, no. 3, 90-98.
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. **Zarnescu O.**, Stavri S., Moldovan L. 2013. Inhibition of caudal fin regeneration in *Corydoras aeneus* by lithium chloride. *Micron* vol. 46, 66-75.
13. **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.
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. 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.
16. **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.
17. **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.
18. **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.
19. 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.
20. 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.
21. 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.

22. **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.
23. **Zarnescu O.** 2007. Ultrastructure of the skin melanophores and iridophores in paddlefish, *Polyodon spathula*. *Micron*, vol. 38, no. 1, 81-84.
24. Oprița 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.
25. **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.
26. **Zarnescu O.** 2005. Ultrastructural study of spermatozoa of the paddlefish, *Polyodon spathula*. *Zygote*, vol. 13, no. 3, 241-247.
27. **Zarnescu O.** 2004. Ultrastructural observations of previtellogenic ovarian follicle of dove. *Zygote*, vol. 12, nr.4, 285-292.
28. 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.