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Areas of scientific interest:

- Development of cellular therapies in osteoarticular diseases, studying adult stem cells as applied to regenerative medicine: investigation of potential sources of mesenchymal stem cells, study of morphological and functional changes of mesenchymal stem cells from various sources under the influence of several factors and different isolation techniques, differentiation potential of these cells into multiple cell lines, testing cell viability and differentiation capacity after cryopreservation, *in vivo* imaging studies.
- Integrating the use of structural matrices in cellular therapies.
- Tumor cell biology and innovative cancer therapies

Relevant publications:

1. **Anghel S**, Bojin F, Igna C, Tanasie G, Tatu CA, Seres M, Tatu C, Luca C, Ordodi V, Gruia A, Rosca A, Gurban C, Georgescu R, Paunescu V. Comparison between differentiation potential of dog periosteum-derived cells and bone marrow-derived cells to osteogenic, chondrogenic and adipogenic lineages. *Fiziologia-Physiology*, 65:21-26, 2010
2. **Anghel S**, Bojin F, Igna C, Tanasie G, Seres M, Tatu C, Luca C, Tatu CA, Rosca A, Gruia A, Ordodi V, Georgescu R, Paunescu V. Harvesting, isolation and characterization of dog periosteum-derived cells. *Fiziologia-Physiology*, 64:31-35, 2009
3. Darian Rusu, Bogdan Calenic, Maria Greabu, Alexander Krlev, Marius Boariu, Florina Bojin, **Simona Anghel**, Virgil Paunescu, Octavia Vela, Horia Calniceanu, Stefan-Ioan Stratul. Evaluation of oral keratinocyte progenitor and T-lymphocyte cells response during early healing after augmentation of keratinized gingiva with a 3D collagen matrix - a pilot study. *BMC Oral Health*. 2017; 17: 9. Published online 2016 Jul 7
4. Voisan R, Cristea M, Tanasie G, Bojin F, Nistor D, **Anghel S**, Ionac M. In Vitro Testing the Cytotoxic Effect of Titanium-Hydroxyapatite Biomaterial. *Fiziologia - Physiology*, 2016; 26.2(90): 23-28.
5. Rusu LC, Popovici RA, Levai MC, Bortun CM, Lobont O. Interdisciplinaritatea in cercetarea medicala cap.13 Terapiile celulare, Laura-Cristina Rusu, **Simona Anghel**, Florina Maria Bojin, Gabriela Tanasie Universitatea de Medicina si Farmacie "Victor Babes" Timisoara, Ed.Victor Babes, 2015, Colectia Hippocrate, indicativ CNCSIS: 324, p.457-508
6. Păunescu V, Deak E, Herman D, Siska IR, Tănăsie G, Bunu C, **Anghel S**, Tatu CA, Oprea TI, Henschler, Rüster B, Bistriar R, Seifried E In vitro differentiation of human mesenchymal stem cells to epithelial lineage *J Cell Mol Med*. 2007;11(3):502-508
7. Groza S, **Anghel S**, Tatu C, Tanasie G, Panaitescu C, Gavriliuc O, Paunescu V, Bojin F. *Lymphocytes Subsets Involved in Alzheimer Disease-Associated Immunosenesence*. *Fiziologia - Physiology*, 2014; 24(81): 21-26.

8. Groza S, **Anghel S**, Cristea M, Tatu C, Tanasie G, Panaitescu C, Gavriliuc O, Paunescu V, Bojin F. Telomere length changes in Alzheimer disease. *Fiziologia – Physiology*, 2014; 24(82): 27-30
9. Cean A, Istratoaie B, Cristea M, Ivan A, **Anghel S**, Bojin F, Tanasie G, Tatu C, Panaitescu C, Paunescu V. *The morphology of colonies from breast cancer sk-br-3 cells in semisolid media depends on the media composition*. *Fiziologia - Physiology*, 2012; 22(75): 9-14.
10. Bojin F, Ordodi V, **Anghel S**, Gruia A, Gavriliuc O, Georgescu R, Vintila R, Tatu C, Bunu C, Tanasie G, Paunescu V. *Mesenchymal stem cells admix with biological scaffold heal bone defects in rat models*. *Romanian Biotechnological Letters*, 16(3): 6218-6225, ISSN 1224-5984, 2011
11. Bojin F, Gavriliuc O, Ordodi V, Cristea M, **Anghel S**, Crisnic D, Nistor D, Tatu C, Tanasie G, Panaitescu C, Paunescu V. *Controversies related to cell cultures obtained from various tissular samples*. *Fiziologia - Physiology*, 2011; 21(72): 4-9.
12. C.Igna, C.Luca, **Simona Anghel**, Larisa Schuzler, M.Sabau, Roxana Dascalu. *Evaluation of osteogenic activity and mineralization of cultured canine periosteal cells*. *Lucrari stiintifice medicina veterinara*, vol. XLIII (2), 2010 Timisoara
13. Mirabela I. Cristea, Alexandra T. Gruia, Valentin L. Ordodi, Oana I. Gavriliuc, Ileana Scurtu, Violeta Moica, **Simona Anghel**, Florin Margineanu, Nikola Pavlovic, Elena Gai, Victor Dumitrascu, Fabian Tatu, Virgil Paunescu, Calin A. Tatu, *Aristolochia Clematidis in Traditional Medicine Recipes:Toxin or Remedy?*, *Central European Journal of Occupational and Environmental Medicine*, 2009, 15(1-2):7-18
14. Tanasie G, **Anghel S.**, Mirea F., Siska IR, Ordodi V, Nistor D, Tatu C, Bunu C, Boss H, Poenaru D. *In Vitro Human Adult Mesenchymal Stem Cells Differentiation towards Chondrogenic Lineage*, *Fiziologia. Physiology*, ISSN 1223-2076, 17, 4 (56), 2007
15. Tanasie G, Tatu C, Bunu C, Tascau M, Igna C, Vasilco R, Cristea M, Paunescu V, **Anghel S**, Schuzler L, Mirea F, Voicu A, Dema A, Paunescu V. *Stem cells and osteoarticular regeneration*, *Fiziologia. Physiology*, ISSN 1223-2076, 17, 3 (55), 8-11,2007
16. Gurban CV, Tanasie G, Gotia SR, Cornianu M, Glaja R, Faur A, **Anghel S**, Ceacli C. *Osteocalcin and Estradiol – Markers of Bone Cells in Postmenopausal Osteoporosis*, *Fiziologia – Physiology*, 17 (4): 21 – 24, 2007
17. Tanasie G, **Anghel S**, Tatu C, Paunescu V, Siska I, Bunu C, Tatu F, Ionita H, Paunescu V. *In vitro expansion of human bone marrow derived undifferentiated mesenchymal stem cells*, *Fiziologia. Physiology*, ISSN 1223-2076, 16, 2 (50), 27-31, 2006

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