

Daciana Carmen Nistor, MD, PhD  
Lecturer, Department of Physiology  
Physician in Pathology  
E-mail: daciana\_nistor@yahoo.com



#### Areas of scientific interest:

- **Stem cell use for advanced therapies**

The main research area is development of advanced therapies, starting from human adult stem cells, and focusing on stem cell plasticity, in order to differentiate them towards the endothelial line. The projects *Autologous stem cell transplant in cardiovascular diseases* (TRANSTEM, PNCD-II Parteneriate no. 41-075/2007), PCD project, *Stem cell therapy for vascular regeneration and reconstruction* (ANGIOSTEM, CEEEX project no. 44/2005), and *Human hematopoietic stem cells – source of endothelial cells for stent endothelization* (type A CNCSIS grant 1194/2004) were focused on the use of human stem cells for cell therapies in cardiovascular diseases.

- **Genetic and biological aspects in cancer**, which focuses on signaling and transduction mechanisms, analysis of tumor biomarkers, as well as the evaluation of response to therapy. Our main objective is to improve the diagnosis and the prognosis of cancer patients, by optimizing the response to standard therapy, and by introducing advanced personalized therapy.
- **Medical education**, in order to improve the university curriculum for students and the residency curriculum.

#### Relevant publications:

1. Paunescu V, Suciu E, Tatu C, Plesa A, Herman D, Siska IR, Suciu C, Crisnic D, **Nistor D.C.**, Tanasie G, Bunu C, Raica M. *Endothelial cells from hematopoietic stem cells are functionally different from those of human umbilical vein*. J Cell Mol Med. 2003; 7(4):455-60, (factor de impact 6,555).
2. **Nistor D.C.**, Siska IR, Crisnic D., Tanasie G., V. Paunescu. *Role of vascular endothelial growth factor (VEGF) in angiogenesis*. Fiziologia (Physiology) ISSN 1223-2076, 2005; 15(2): 13 - 18.
3. **D.C. Nistor**, Ioana Siska, Gabriela Tanasie, Carmen Tatu, Carmen Bunu, Florina Mirea, Ramona Cioaca, Virgil Paunescu, Georgeta Mihalas, „*Human hematopoietic stem cells – Source of normal autologous endothelial cells*”, Fiziologia (Physiology) ISSN 1223-2076, vol. 16, nr.3(51); 2006; pg 31-35.
4. **Nistor D.C.**, Siska IR, Mirea F, Plesca D, Mihalas G, Paunescu V. *Autologous Vessel Bypass vs Artificial Graft Bypass*. Fiziologia (Physiology) ISSN 1223-2076, 2007; 17; 4(56): 4-10.
5. Bojin F, Tatu CA, Gavriliuc O, Gruia A, Tanasie G, Tatu C, Cristea M, Ciuculescu F, Tocut A, Crisnic D, Carabineanu A, **Nistor D.C.**, Bunu C, Paunescu V, *Stromal cells – tumor microenvironment interactions – Part I*, Fiziologia (Physiology), 2010, ISSN 1223-2076, 20/1(6)/37-41.
6. Bojin F, Tatu CA, Gavriliuc O, Gruia A, Tanasie G, Tatu C, Cristea M, Ciuculescu F, Tocut A, Crisnic D, Carabineanu A, **Nistor D.C.**, Bunu C, Paunescu V, *Stromal cells – tumor microenvironment interactions – Part II*, Fiziologia (Physiology), 2010, ISSN 1223-2076, 20/1(6)/31-36.
7. Gabriela Tanasie, Florina Bojin, C.A. Tatu, Oana Gavriliuc, Carmen Tatu, **D.C. Nistor**, Hortensia Ionita, Carmen Bunu, V. Paunescu, *Mechanisms Involved in Mesenchymal Stem Cells*

- Differentiation towards the Epithelial Lineage. Effects of Chemical Inductors, *Fiziologia (Physiology)* ISSN 1223-2076, 2009; 19; 3(63): 7-13.
8. F Bojin, CA Tatu, O Gavriiliuc, V Ordodi, A Gruia, A Rosca, G Tanasie, C Tatu, D Crisnic, **D.C. Nistor**, M Cristea, S Anghel, A Boleman, C Bunu, V Paunescu , *In Vitro* Characterization of Mechanisms Involved in Adipogenic Differentiation of Mesenchymal Stem Cells and Tumor Associated Fibroblasts, *Fiziologia (Physiology)* ISSN 1223-2076, 2009; 19; 4 (64): 21-27.
  9. Ana Maria Cristina Serban, Gabriela Tanasie, **D.C. Nistor**, Oana Gavriiliuc, Stem cell types in the bone marrow, *Timisoara Medical Journal*, 2008, vol. 58 nr. 3-4, ISSN 1538-5251, pg 244-249.
  10. Ana Maria Cristina Serban, Gabriela Tanasie, **D.C. Nistor**, Oana Gavriiliuc, Chemotaxis and differentiation promoter factors of stem cells involved in cardiovascular pathology, *Timisoara Medical Journal*, 2008, vol. 58 nr. 3-4, ISSN 1538-5251, pg 135-138.

### **Affiliations**

UMF "Victor Babes" Timisoara  
OncoGen Centre – SCJUPB Timisoara