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Nationality Romanian

Date of birth 22.11.1952

Gender F

**Employment / Occupational field** **Institute of Cellular Biology and Pathology N. Simionescu, Romanian Academy, Head of Proteomics Department, CS I**  
**Coordinator of Monoclonal Antibody Laboratory**  
**PhD Coordinator in Biology IOD: Romanian Academy, ICA: IBPC NS, MEdC.**

**Work experience**

Occupation or position held - Principal investigator and Member of the Scientific Council in IBPC N Simionescu  
 -PhD Advisor in Cellular and Molecular Biology; Advisor for graduate and master program  
 -Research fellow: McGill University, Montreal, Canada.  
 -Visiting scientist: University of Alberta, Edmonton Canada; Max Planck Institute, Bad Nauheim, Germany; University of Texas, Dallas, USA; Molecular Biology and Genetics, Dresden, Germany; Université René Descartes, Paris V, L'Université des Sciences et Technologies de Lille I, France.  
 -Expert Evaluator/Reporter in the EC Framework FP6 and FP7; for the Ministry of Education and Research; National Council of Research and High Education (CNCSIS): National Framework for Research, Development and Innovation (PN-II); Invited peer reviewer for international journals.  
 -President of Biology Commission of CNATDCU (2006-2011).  
 -MC management in the COST CA16113 CliniMARK action (Good biomarker practice) 2017-2020.  
 -Board member of Central and Eastern European Proteomic Conferences (CEEPC), <http://www.ceepe.eu>.

**Education and training**

Title of qualification awarded -University of Bucharest, Faculty of Physics, (1972-1977), Master degree in Biophysics;  
 -MEdC/Romanian Academy IOD/ IBPC NS ICA, Ph.D. Training, (1985-1994), Ph.D. in Biology.  
 -2000-PhD Coordinator in Biology IOD: Romanian Academy, ICA: IBPC NS, MEdC.

Principal subjects/occupational skills covered	<p><b>Didactic activities:</b> Lectures, seminars and laboratories to national and international meetings related to the biomedical research topic.</p> <p><b>Research activities:</b> Cell receptors and traffic in endothelial cells in normal and pathological conditions. Bio-pathology of atherosclerosis, diabetes and immune disorders. Transport of macromolecules in vascular cells: Transcytosis, Endocytosis. Monoclonal antibodies as diagnostic and therapeutic tools. Proteomic of endothelial cells in health and disease. Micro-domains, lipid rafts and caveolae: structural and functional characterization. Inflammatory systemic diseases.</p> <p>-<i>Manager/coordinator of more than 44 research projects gained by competition from national (34) and international (10) programs;</i></p> <p>-<i>PhD advisor for 12 PhD students.</i></p> <p><b>Technical expertise:</b> <i>Immunological methods:</i> Monoclonal antibodies, FACS, ELISA. <i>Cell Biology:</i> cell culture, animal models, microsurgery, electron microscopy, immunocytochemistry, fluorescence microscopy, protein labeling, western blotting, DNA and protein electrophoresis, gel and affinity chromatography. <i>Vascular cell proteomics and Radiobiochemistry:</i> One and 2D SDS-PAGE, protein radio-labeling, scintillation and gamma counting, autoradiography at LM and EM level. <i>Molecular Biology:</i> PCR, RT-qPCR, <i>in situ</i> hybridization, plasmid transfection.</p>
Level in national or international classification	<p><b>Prizes and Awards:</b></p> <p>-<u>International prizes:</u> <b>EURESCO</b> Prize of the Euresco Conferences, Membrane Dynamics in Endocytosis-Molecular Regulation, Tomar, Portugal, 2001; <b>ESF</b> Grand for EURESCO Conferences: 1995-Ireland, 1997-Spain, 1998-France, 2001-Portugal; <b>BIO-RAD Laboratories</b> Prize for valuable research, 2002 ; <b>III<sup>rd</sup> Award</b> of the International Congress of Medical Sciences, Bulgaria, 2003; <b>Summer School Fellowship:</b> Soft Condensed Matter Physics in Molecular and Cell Biology, Edinburgh, Scotland, UK, 2004; <b>The Best Poster of the Conference:</b> "8th International Conference, Vascular Endothelium: Translating Discoveries into Public Health Practice", 2005, Knossos Royal Village, Greece; <b>COST STSM</b> 2008, in Proteomic analysis of lipid rafts in normal and hyperlipidemic condition. Host: Institute of Clinical Biochemistry and Pathobiochemistry, Düsseldorf, Germany; Romanian Academy <b>Emil Racovita</b> Prize, 1991; <b>8</b> other prestigious awards from National Scientific Events or Academic Institutions (UB, IBPC, MEcD, SRBC, CNCIS).</p> <p>-<u>Invited talks and communications presentations:</u> 15 invited lecture/ communications; 70 international participation to conferences, 10 invited monographs published in international prestigious eds.</p>
Technical skills and competences	<ul style="list-style-type: none"> <li>• Biotecnology of monoclonal antibodies production</li> <li>• Molecular mechanisms of macromolecules transport through cellular monolayer (human and murin transport of IgG through placental barrier)</li> <li>• Biotecnology of cell culture system in mono and bicameral system</li> <li>• Photosinthetic mechanisms of organic matter production</li> <li>• Cellular and molecular biology of vascular endothelium</li> <li>• Molecular mechanisms of membrane cellular receptors for vasoactive amine, albumin binding proteins ABP, lipoprotein-LDL, IgG, folic acid,..</li> <li>• Immunochimistry and immunotechnology of specific polyclonal antibodies production</li> <li>• Organization, dynamic and physiology of membranary lipids</li> <li>• Endocytosis and transcytosis receptor mediated mechanisms in different cellular systems</li> <li>• Preparation and characterization of advanced and nanostructured materials and devices.</li> </ul>
Other skills and competences	<p>- Supervising Master and 12 PhD students. Training in laboratory skills of young researchers; Referee for 15 PhD thesis (ICBP NS, Univ of Bucharest Faculty of Biology and Physics-Biophysics, UMF Bucharest.</p>
<b>Additional information</b>	<p><b>Scientometric factors. (ISI Thomson and Scholar Academic)</b></p> <p><b>-170 Scientific papers and communications in collaborations. 69 WOS results, 2717 ISI Citations Hirsh: 25; i10 index 45. (<a href="https://scholar.google.ro/citations?hl=en&amp;user=LK6U6x8AAAAJ">https://scholar.google.ro/citations?hl=en&amp;user=LK6U6x8AAAAJ</a>).</b></p> <p><b>-11 Monographs or Chapters of Books in national and international book editures acquired by 1951 international libraries (<a href="http://www.worldcat.org">www.worldcat.org</a>)</b></p> <p><b>-17 International invited lectures and 100 competitive international communications and posters</b></p> <p><b>-35 national and 15 international competitive research grads and projects.</b></p>

