



## **DISSEMINATION:**

### Indexed publications:

1. Ileana Manduteanu, Maya Simionescu, "Inflammation in atherosclerosis: a cause or a result of vascular disorders?", J Cell Mol Med. 2012 ;16(9):1978-90
2. Maria Mihaly, Madalina Camelia Fleancu, Nicoleta Liliana Olteanu, Dionezie Bojin, Aurelia Meghea, Marius Enachescu, Synthesis of gold nanoparticles by microemulsion assisted photoreduction method, Comptes Rendus Chimie, 2012, vol.15: 1012-1021.
3. Madalina Fleancu, Maria Mihaly, D. Bojin, M. Enachescu, Liana Anicai, Study of Electrocatalytic Characteristics of Au nanoparticles prepared by microemulsion assisted photoreduction procedure, REV. CHIM. (Bucharest) vol. 63 (12): 1261-1265, 2012
4. Daniela Stan, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin, Monocyte infiltration through endothelial cell monolayer studied by a real-time electrical impedance assay, Annals of Romanian Society of Cell Biology vol. XVII nr. 2/2012.
5. K. Reder-Christ, P.Schmitz, P.M. Bota, U. Gerber, H.Falkenstein-Paul, C.Fuss, M. Enachescu, G. Bendas, Dry Membrane Protection Technique to Allow Surface Acoustic Wave Biosensor Measurements of Biological Model Membrane Approaches, Sensors, vol. 13, pp. 12392-12405, (2013)
6. Viorel Simion, Daniela Stan, Ana-Maria Gan, Monica Madalina Pirvulescu, Elena Butoi, Ileana Manduteanu, Mariana Deleanu, Eugen Andrei, Anamaria Durdureanu-Angheluta, Marian Bota, Marius Enachescu, Manuela Calin, Maya Simionescu, Development of curcumin-loaded poly(hydroxybutyrate-co-hydroxyvalerate) nanoparticles as anti-inflammatory carriers to human activated endothelial cells, Journal of Nanoparticle Research, 2013, DOI: 10.1007/s11051-013-2108-1

### Books and chapters in books:

1. Manuela Calin, Immunoliposomes for Specific Drug Delivery, in Antibody-Mediated Drug Delivery Systems: Concepts, Technology, and Applications (eds Y. Pathak and S. Benita), John Wiley & Sons, Inc., Hoboken, NJ, USA, 2012. doi: 10.1002/9781118229019.ch12

### Congresses and Conferences:

- 1) M. Calin, D. Stan, I. Manduteanu, V. Simion, M. Pirvulescu, A.M. Gan, M. Simionescu, Design, preparation and characterization of site-specific target-sensitive liposomes for drug delivery at sites of activated endothelium", "Bioactive/biocompatible polymeric materials" Conference, 6-13 martie 2011, Zabrze, Polonia- oral presentation

- 2) Manuela Calin, Daniela Stan, Ileana Manduteanu, Viorel Simion, Monica Pirvulescu, Ana-Maria Gan, Maya Simionescu, Development and characterization of site-specific target-sensitive liposomes for drug delivery at sites of activated endothelium, "Third International Congress of Romanian Society for Cell Biology", Arad/Szeged, Romania/Hungary, 8 -12 iunie 2011-poster; **Best poster award**
- 3) Daniela Stan, Ileana Manduteanu, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Manuela Calin, Selective induction of apoptosis in monocytes by clodronate-liposomes to study the changes in their adhesion properties and consequent activation of vascular cells, "BIT Life Sciences' 2nd Annual Nanomedicine-2011", Shenzhen, China, 3-5 noiembrie 2011- poster presentation
- 4) Viorel Simion, Daniela Stan, Ana-Maria Gan, Monica Pirvulescu, Ileana Manduteanu, Anamaria Durdureanu-Angheluta, Manuela Calin. Development of curcumin loaded polymer and lipid-based nanoparticles as anti-inflammatory carriers, "BIT Life Sciences' 2nd Annual Nanomedicine-2011", Shenzhen, China, 3-5 noiembrie 2011- poster presentation
- 5) Viorel Simion, Daniela Stan, Ana-Maria Gan, Monica Pirvulescu, Ileana Manduteanu, Manuela Calin, Preparation and characterization of different types of curcumin loaded nanoparticles, "Third International Congress of Romanian Society for Cell Biology", Arad-Szeged, Romania, 8 -12 iunie 2011- poster presentation
- 6) Daniela Stan, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin, Chemokine receptor antagonists influence on monocytes infiltration through endothelial cells monolayer studied by a real-time electrical impedance assay, poster, "5th Annual Meeting of the Diabetes & Cardiovascular Disease, EASD Study group ", Paris, France, 15-17. 11. 2012 -poster presentation
- 7) M. Calin, Transportul de medicamente folosind liposomi directionati specific, Scoala de Studii Avansate "Nicolae Simionescu": Noi abordari de biologie celulara si moleculara pentru progresul cercetarii biomedicale, 5-14 noiembrie 2012, Bucuresti- oral presentation
- 8) Manuela Calin, Ileana Manduteanu , Elena Butoi , Daniela Stan, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Maya Simionescu, Nanoparticles designed to target inflammatory processes in cardiovascular diseases, oral presentation at "Nanomedicine, Nanotechnologies and Biomaterials Symposia", „4th International Congress and 29<sup>th</sup> Annual Scientific Session of Romanian Society for Cell Biology”, Satu Mare, Romania, 13-17.06.2012- oral presentation
- 9) Viorel Simion, Daniela Stan, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin, Development of polymer and lipid-based nanoparticles as anti-inflammatory drug carriers, oral presentation at "Nanomedicine, Nanotechnologies and Biomaterials Symposia", „4th International Congress and 29<sup>th</sup> Annual Scientific Session of Romanian Society for Cell Biology”, Satu Mare, Romania, 13-17.06.2012- - oral presentation
- 10) Daniela Stan, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin, Monocyte infiltration through endothelial cell monolayer studied by a real-time electrical impedance assay, poster, „4th International Congress and 29<sup>th</sup> Annual Scientific Session of Romanian Society for Cell Biology”, Satu Mare, Romania, 13-17.06.2012.

- 11) Viorel Simion, Daniela Stan, I. Manduteanu, M. Calin, M. Simionescu, Curcumin-loaded nanoparticles as anti-inflammatory drug carriers, poster, the 4th EMBO meeting Advancing the life sciences, Nice, France, 22-25.09. 2012
- 12) Daniela Stan, Viorel Simion, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin. Monocyte infiltration through endothelial cell monolayer studied by a real-time electrical impedance assay. „RAMSES Annual Workshop” 13-16 septembrie 2012 Bucuresti, Romania, poster presentation
- 13) Madalina Fleancu, Maria Mihaly, D. Bojin, M. Enachescu, Liana Anicai, Study of electrocatalytic characteristics of Au nanoparticles prepared by microemulsion assisted photoreduction procedure, poster “Third regional symposium on electrochemistry: South-East Europe (Rse-See3), Bucharest, May 13-17, 2012
- 14) Madalina Fleancu, Maria Mihaly, D. Bojin, Liana Anicai, M. Enachescu, Electrocatalytic characteristics of gold nanoparticles prepared by microemulsion assisted photoreduction procedure— application in bioanalytical detection, poster, The 63rd Annual ISE Meeting, Prague, August 19-24, 2012
- 15) Liana Anicai, Maria Mihaly, Madalina Fleancu, Dionezie Bojin, Marius Enachescu, Electrocatalytic gold nanoparticles obtained by microemulsion assisted photoreduction – application in bioanalytical detection, 1st International Conference on Analytical Chemistry „Analytical Chemistry for a Better Life”, Targoviste, Romania, September 18-21, 2012, **Best poster award**
- 16) Daniela Stan, Viorel Simion, Mariana Deleanu, Ana-Maria Gan, Monica Pirvulescu, Elena Butoi, Ileana Manduteanu, Manuela Calin, Maya Simionescu. Liposomes targeted to vascular cell adhesion molecule- 1 bind specifically to the aorta of apoE-deficient mice. International Congress and the 31th Annual Session of Romanian Society for Cell Biology, 5-9 iunie 2013 Timisoara, **Best poster award**
- 17) Viorel Simion, Daniela Stan, Monica Pirvulescu, Ana-Maria Gan, Elena Butoi, Ileana Manduteanu, Manuela Calin. Anti-inflammatory and anti-tumoral activity of curcumin-encapsulated lipid nanoparticles. International Congress and the 31th Annual Session of Romanian Society for Cell Biology, 5-9 iunie 2013 Timisoara.
- 18) Viorel Simion, Daniela Stan, Monica Pirvulescu, Anca Gan, Elena Dragomir, Ileana Manduteanu, Maya Simionescu, Manuela Calin, Nanoparticles designed to treat atherosclerosis and cancer, Congresul FEBS, 6-11 iulie 2013, Sankt Petersburg, Rusia

#### Patents:

1. European Patent Office: application no. EP13003858: "Method to block site-specifically chemokine-related inflammatory processes in vascular diseases and metastasis".

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