

LISTA LUCRĂRI ȘTIINȚIFICE PUBLICATE ÎN REVISTE INDEXATE IN WEB OF SCIENCE:

1. Voicu G, Rebleanu D, Constantinescu CA, Fuior EV, Ciortan L, Droc I, Uritu CM, Pinteala M, Manduteanu I, Simionescu M, **Calin M***, Nano-Polyplexes Mediated Transfection of Runx2-shRNA Mitigates the Osteodifferentiation of Human Valvular Interstitial Cells. *Pharmaceutics*. 2020 Jun 2;12(6):E507. doi: 10.3390/pharmaceutics12060507
2. Fuior EV, Deleanu M, Constantinescu CA, Rebleanu D, Voicu G, Simionescu M, **Calin M***, Functional Role of VCAM-1 Targeted Flavonoid-Loaded Lipid Nanoemulsions in Reducing Endothelium Inflammation, *Pharmaceutics*. 2019 Aug 3;11(8). pii: E391. doi: 10.3390/pharmaceutics11080391.
3. Rebleanu D, Gaidau C, Voicu G, Constantinescu CA, Mansilla Sánchez C, Rojas TC, Carvalho S, **Calin M***. The impact of photocatalytic Ag/TiO₂ and Ag/N-TiO₂ nanoparticles on human keratinocytes and epithelial lung cells. *Toxicology*. 2019 Jan 31. pii: S0300-483X(18)30225-7. doi: 10.1016/j.tox.2019.01.013.
4. Constantinescu CA, Fuior EV, Rebleanu D, Deleanu M, Simion V, Voicu G, Escriou V, Manduteanu I, Simionescu M, **Calin M***. Targeted Transfection Using PEGylated Cationic Liposomes Directed Towards P-Selectin Increases siRNA Delivery into Activated Endothelial Cells. *Pharmaceutics*. 2019 Jan 21;11(1). pii: E47. doi:10.3390/pharmaceutics11010047.
5. David G, Clima L, **Calin M**, Constantinescu CA, Balan-Porcarasu M, Uritu CM, Simionescu BC, Squalene/polyethylenimine based non-viral vectors: Synthesis and use in systems for sustained gene release, *Polymer Chemistry*, 9 1072-1081, 2018
6. Tucureanu, M.M., Rebleanu, D., Constantinescu, C.A., Deleanu, M., Voicu, G., Butoi, E., **Calin M***, Manduteanu, I. Lipopolysaccharide-induced inflammation in monocytes/macrophages is blocked by liposomal delivery of Gi-protein inhibitor, *Int J Nanomedicine*, 13: 63-76, 2018.
7. Dascalu A. I., Ardeleanu R., A. Neamtu, S. S. Maier, C. M. Uritu, A. Nicolescu, M. Silion, D. Peptanariu, **M. Calin**, M. Pinteala, Transfection-capable polycationic nanovectors which include PEGylated-cyclodextrin structural units: a new synthesis pathway, *J. Mater. Chem. B*, 2017, Advance Article; DOI:10.1039/C7TB01722G
8. Simionescu BC, Drobota M, Timpu D, Vasiliu T, Constantinescu CA, Rebleanu D, **Calin M***, David G*, Biopolymers/poly(ϵ -caprolactone)/polyethylenimine functionalized nano-hydroxyapatite hybrid cryogel: Synthesis, characterization and application in gene delivery, *Materials Science and Engineering: C* (2017), 81: 167-176.
9. **Calin M**, Manduteanu I, Emerging Nanocarriers-Based Approaches To Diagnose And Reduce Vascular Inflammation In Atherosclerosis, *Current Medicinal Chemistry* 2017;24(6):550-567.
10. Simion V, Constantinescu CA, Stan D, Deleanu M, Tucureanu MM, Butoi E, Manduteanu I, Simionescu M, **Calin M**, P-Selectin Targeted Dexamethasone-Loaded Lipid Nanoemulsions: A Novel Therapy to Reduce Vascular Inflammation, *Mediators Inflamm*. 2016; 2016:1625149. Epub 2016 Sep 14.
11. Tucureanu MM, Butoi E, Gan AM, Daniela Stan, Constantinescu CA, **Calin M**, Simionescu M, Manduteanu I, Amendment of the cytokine profile in macrophages subsequent to their interaction with smooth muscle cells: Differential modulation by fractalkine and resistin, *Cytokine*, 2016, 83: 250–261,
12. Butoi E, Gan AM, Tucureanu MM, Stan D, Macarie RD, Constantinescu C, **Calin M**, Simionescu M, Manduteanu I, Cross-talk between macrophages and smooth muscle cells impairs collagen and metalloprotease synthesis and promotes angiogenesis, *Biochim Biophys Acta*. 2016 Apr 7; 1863(7 Pt A):1568-1578. doi: 10.1016/j.bbamcr.2016.04.001
13. Simion V, Stan D, Constantinescu C A, Deleanu M, Dragan E, Tucureanu MM, Gan AM, Butoi E, Constantin A, Manduteanu I, Simionescu M, **Calin M**, Conjugation of curcumin-loaded lipid nanoemulsions with cell-penetrating peptides increases their cellular uptake and enhances the anti-inflammatory effects in endothelial cells. *J Pharm Pharmacol*. 2016 Feb;68(2):195-207
14. Roblek M, **Calin M**, Schlesinger M, Stan D, Zeisig R, Simionescu M, Bendas G, Borsig L, Targeted delivery of CCR2 antagonist to activated pulmonary endothelium prevents metastasis, *J Control Release*. 2015 Oct 30;220(Pt A):341-347. doi: 10.1016/j.jconrel.2015.10.055.
15. Marin L, Ailincăi D, **Calin M**, Stan D, Constantinescu CA, Ursu L, Doroftei F, Pinteala M, Simionescu BC, Barboiu M, Dynamic Frameworks for DNA transfection, *ACS Biomater. Sci. Eng.*, 2016, 2 (1), pp 104–111, DOI: 10.1021/acsbomaterials.5b00423
16. Uritu CM, **Calin M**, Maier SS, Cojocaru C, Nicolescu A, Peptanariu D, Constantinescu CA, Stan D, Barboiu M, Pinteala M, Flexible cyclic siloxane core enhances the transfection efficiency of polyethylenimine-based non-viral gene vectors, *J. Mater. Chem. B*, *J. Mater. Chem. B*, 2015, 3: 8250-8267, DOI:10.1039/c5tb01342a.
17. Schlesinger M, Zeisig R, Ortmann K, **Calin M**, Gerber U, Roblek M, Borsig L, Bendas G, Inhibition of chemokine receptor CCR2 reduces sarcoma cell transendothelial migration and metastasis to the lungs, *Int J Clin Pharmacol Ther*. 2015 Dec;53(12):1046-1048. DOI: 0.5414/CPXCES14EA04
18. Uritu CM, Varganici C., Ursu L, Coroaba A, Nicolescu A, Dascalu AI, Peptanariu D, Stan D., Constantinescu CA, Simion V, **Calin M**, Maier SS, Pinteala M, Barboiu M, Hybrid Fullerene Conjugates as Vectors for DNA Cell-Delivery, *J. Mater. Chem. B*. 3 (2015) 2433-2446
19. **Calin M**, Stan D, Schlesinger M, Simion V, Deleanu M, Ana Constantinescu C, Gan AM, Pirvulescu MM, Butoi E, Manduteanu I, Bota M, Enachescu M, Borsig L, Bendas G, Simionescu M, VCAM-1 directed target-sensitive liposomes

- carrying CCR2 antagonists bind to activated endothelium and reduce adhesion and transmigration of monocytes, *Eur J Pharm Biopharm.* 89 (2015) 18-29. doi: 10.1016/j.ejpb.2014.11.016
20. Gan AM, Butoi E, Manea A, Pirvulescu MM, Stan D, Simion V, **Calin M**, Simionescu M, Manduteanu I., Functional analysis of the fractalkine gene promoter in human aortic smooth muscle cells exposed to proinflammatory conditions, *FEBS J.*(2014) 281(17):3869-81
 21. Pirvulescu MM, Gan AM, Stan D, Simion V, **Calin M**, Butoi E, Manduteanu I, Subendothelial resistin enhances monocyte transmigration in a co-culture of human endothelial and smooth muscle cells by mechanisms involving fractalkine, MCP-1 and activation of TLR4 and Gi/o proteins signaling, *Int J Biochem Cell Biol.* (2014) 50:29-37. doi: 10.1016/j.biocel.2014.01.022.
 22. Simion V, Daniela Stan D, Gan AM, Pirvulescu MM, Butoi E, Manduteanu I, Deleanu M, Andrei E, Durdureanu-Angheluta AM, Bota M, Enachescu M, **Calin M**, Simionescu M, Development of curcumin-loaded poly(hydroxybutyrate-co-hydroxyvalerate) nanoparticles as anti-inflammatory carriers to human activated endothelial cells, *Journal of Nanoparticle Research*, 15 (12), 1-15 (2013), DOI: 10.1007/s11051-013-2108-1
 23. Durdureanu-Angheluta A, Uritu CM, Coroaba A, Minea B, Doroftei F, **Calin M**, Maier SS, Pinteala M, Simionescu M, Simionescu BC, Heparin-Anthranoic Conjugates Associated with Nanomagnetite Particles and Their Cytotoxic Effect on Cancer Cells, *J. Biomed. Nanotechnol.* 10, 131-142 (2014), doi:10.1166/jbn.2013.1690
 24. **Calin M**, Stan D, Simion V, Stem Cell Regenerative Potential Combined With Nanotechnology And Tissue Engineering For Myocardial Regeneration, *Curr Stem Cell Res Ther.* 2013 Jul 1;8(4):292-303.
 25. Gan AM, Pirvulescu MM, Stan D, Simion V, **Calin M**, Manduteanu I, Butoi E, Cross-talk between activated monocytes and smooth muscle cells activates the STAT3 pathway and induces resistin and reactive oxygen species production, *J Cell Biochem.* 2013 Apr 19. doi: 10.1002/jcb.24571.
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 32. **Voinea Calin M.**, I. Manduteanu, E. Dragomir, E. Dragan, M. Nicolae, A.M. Gan, and M. Simionescu, Effect of depletion of monocytes/macrophages on early aortic valve lesion in experimental hyperlipidemia, *Cell Tissue Res* 336 (2009) 237-48.
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 35. Manduteanu I., E. Dragomir, **M. Voinea**, M. Capraru, and M. Simionescu, Enoxaparin reduces H2O2-induced activation of human endothelial cells by a mechanism involving cell adhesion molecules and nuclear transcription factors, *Pharmacology* 79 (2007) 154-62.
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 37. **Voinea M.**, I. Manduteanu, E. Dragomir, M. Capraru, and M. Simionescu, Immunoliposomes directed toward VCAM-1 interact specifically with activated endothelial cells--a potential tool for specific drug delivery, *Pharm Res* 22 (2005) 1906-17. (IF 4.456)
 38. **Voinea M.**, A. Georgescu, A. Manea, E. Dragomir, I. Manduteanu, D. Popov, and M. Simionescu, Superoxide dismutase entrapped-liposomes restore the impaired endothelium-dependent relaxation of resistance arteries in experimental diabetes, *Eur J Pharmacol* 484 (2004) 111-8.

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40. Manduteanu I., **M. Voinea**, F. Antohe, E. Dragomir, M. Capraru, L. Radulescu, and M. Simionescu, Effect of enoxaparin on high glucose-induced activation of endothelial cells, *Eur J Pharmacol* 477 (2003) 269-76.
41. **Voinea M.**, E. Dragomir, I. Manduteanu, and M. Simionescu, Binding and uptake of transferrin-bound liposomes targeted to transferrin receptors of endothelial cells, *Vascul Pharmacol* 39 (2002) 13-20.
42. **Voinea M.**, and M. Simionescu, Designing of 'intelligent' liposomes for efficient delivery of drugs, *J Cell Mol Med* 6 (2002) 465-74.
43. Manduteanu I., **M. Voinea**, M. Capraru, E. Dragomir, and M. Simionescu, A novel attribute of enoxaparin: inhibition of monocyte adhesion to endothelial cells by a mechanism involving cell adhesion molecules, *Pharmacology* 65 (2002) 32-7.
44. Manduteanu I., **M. Voinea**, G. Serban, and M. Simionescu, High glucose induces enhanced monocyte adhesion to valvular endothelial cells via a mechanism involving ICAM-1, VCAM-1 and CD18, *Endothelium* 6 (1999) 315-24.

CAPITOLE DE CARTE:

1. **Calin, M.** (2012) Immunoliposomes for Specific Drug Delivery, in *Antibody-Mediated Drug Delivery Systems: Concepts, Technology, and Applications* (editors Y. Pathak and S. Benita), 229-266, JOHN WILEY & SONS, Inc., Hoboken, NJ, USA. doi: 10.1002/9781118229019.ch12 (No. of libraries according to Karlsruhe Virtueller Katalog (KVK): 101).
2. **Calin M**, Butoi E, Manea SA, Simionescu M, Manea A (2016). Lessons from experimental-induced atherosclerosis – valuable for the precision medicine of tomorrow. In book: *Arterial Revascularization of the Head and Neck: Text Atlas for Prevention and Management of Stroke*, pp.341-365, Editor Horia Muresian, SPRINGER, New York, DOI: 10.1007/978-3-319-34193-4_17, ISBN-10: 331934191X, ISBN-13: 978-3319341910 (No. of libraries according to Karlsruhe Virtueller Katalog (KVK): 136)
3. Fuior EV, **Calin M** (2020), Nanoparticle-based delivery of polyphenols for the treatment of inflammation-associated diseases. In Book: *Advances and Avenues in development of novel carriers for Bioactives and biological agents*, Editors: Manju Rawat Singh, Deependra Singh, Jagat Kanwar, Nagendra Singh Chauhan, 343-382, Academic Press, ELSEVIER, ISBN: 978-0-12-819666-3 (No. of libraries according to Karlsruhe Virtueller Katalog (KVK): 108)

PATENTE:

1. European Patent no. EP 2832373, inventors Bendas G, Borsig L, **Calin M**, Cevher E, Enachescu M, Gok MK, Hoffmann A, Mihaly M, Pabuccuoglu SK, Simionescu M, Schlesinger M, Zeisig R: "Liposome for blocking site-specifically chemokine-related inflammatory processes in vascular diseases and metastasis"
2. European Patent: application no: 17464014.4-1102, inventors: Gaidau C, **Calin M**, Constantinescu CA, Rebleanu D, Stoica T: "Leather with anti-microbial and self-cleaning properties and process for obtaining thereof"
3. OSIM, aplicatie nr. A/00966, inventatori: Gaidau C, **Calin M**, Constantinescu CA, Rebleanu D, Stoica : "Piei cu proprietati antimicrobiene si de autocuratare si procedeu de obtinere a acestora"
4. OSIM aplicatie nr. A/00811, inventatori Calin M, Rebleanu D, Constantinescu CA, Voicu G, Deleanu M, Manduteanu I: „Procedeu de obtinere a nanocărașilor utilizați pentru vectorizarea acidului ribonucleic (arn) de interferență și livrarea țintită la celulele valvei aortice”
5. OSIM aplicatie nr. A/01055, inventatori: Ficai D , Ardelelean I, Ilie C, Calin M, Fuior EV, Fifere A, Pinteala M, Fundueanu-Constantin G, Ficai A, Simionescu M, Andronescu E: „Separator (electro)magnetic vertical a nanoparticulelor izomagnetice”

LISTA LUCRARI ȘTIINȚIFICE IN ALTE REVISTE INDEXATE BDI

1. D. Stan, V. Simion, AM Gan, M Pirvulescu, E Butoi, Ileana Manduteanu, **M. Calin**, Monocyte infiltration through endothelial cell monolayer studied by a real-time electrical impedance assay, *Annals of Romanian Society of Cellular Biology* vol. XVII nr. 2/2012 (CNCSIS B+).

2. Simion V, Gan AM, Stan D, Pirvulescu M, **Calin M**, Butoi E, Manduteanu I, Resistin and high glucose concentrations-activation of human smooth muscle cells induces enhanced monocyte chemotaxis, Rom J Diabetes Nutr Metab Dis. (2012), 19(1):17-24 (CNCSIS B+).
3. **M. Voinea**, E. Dragomir, I. Manduteanu, Gene transfer into endothelial cells using transferrin bound cationic liposomes, Proc. Rom Acad, Series B, 3: 203-206, 2004
4. M. Barbinta-Patrascu, **M. Voinea**, L Tugulea, Antioxidant effects on liposomes with chlorophyll a, Analele Universitatii Bucuresti, Physica, anul LII, p.35-41, 2003
5. **M.Voinea**, Targeting of immunoliposomes to endothelial cells, B.I.F. Futura, vol.14(3), 251-252,1999

LISTA DE CAPITOLE ÎN CĂRȚI/VOLUME LA EDITURI NAȚIONALE:

1. I. Manduteanu, **M. Voinea**, M. Capraru, M. Simionescu, Effect of clexane on monocyte adhesion to valvular endothelium, Current problems and techniques in cellular and molecular biology, vol 4, 136-140, Ed. Risoprint Cluj-Napoca, Eds. C. Craciun, A. Ardelean, 1999.
2. **M. Voinea**, I. Manduteanu, M. Simionescu, Interaction of liposomes with vascular endothelium, Current problems and techniques in cellular and molecular biology, vol 3,26-29, Ed. Risoprint Cluj-Napoca, Eds. C. Craciun, A. Ardelean, 1998.
3. **M. Voinea**, I. Manduteanu, M. Simionescu, Effect of antioxidants on adhesion monocytes to valvular endothelial cells grown in high glucose concentration, Current problems and techniques in cellular and molecular biology, vol 3,141-145, Ed. Risoprint Cluj-Napoca, Eds. C. Craciun, A. Ardelean, 1998.

Am Calin