

Dr. Calin Manuela

Current position: PhD, scientific researcher grade I, head of Nanotherapy laboratory and member of the Scientific Council of the ICBP "N. Simionescu".

Education:

2011-2013-postdoctoral position in "Biomaterials: nanocarriers with controlled drug release", Institute of Macromolecular Chemistry "PetruPoni", Iasi;

2005-PhD in Biological Sciences with Distinction: Summa cum Laude (Supervisor Maya Simionescu);

1996-master of Science in Biophysics, University of Bucharest; 1995-graduated physicist, Faculty of Physics, University of Bucharest.

Expertise: long experience in liposome preparation and characterization; targeting of liposomes by coupling ligands to their surface; cell culture, biochemistry techniques, immunological methods, enzymatic assays, fluorimetry, molecular biology: transfection, RT-PCR; fluorescence and electron microscopy, mouse models of atherosclerosis.

Project coordinator: Coordinator of 6 national research projects; Research & Development Coordinator of EuroNanoMed ERA-NET project NANODIATER, 2011-2014; colaborator in 3 international and 12 national research projects.

Prizes: 10 national and international prizes (selection): 1) Prize offered by the Romanian Academy in 2015 for the series of 10 papers published in the period 2010-2013; 2) Herbert-Berler Prize of Excellence offered by Romanian Academy of Medical Sciences, 2015; 3) Constantin Velican Award of the Romanian Society for Cell Biology, 2012; 4) Prize of Excellence offered by Romanian Medical Association, 2010; 5) First prize sponsored by Nature Publishing Group at European Life Scientist Organization Meeting, France, 2002.

Published papers: 44 from which 36 published in ISI cited journals with impact factors, 2 book chapters; 1 EPO patent; cited >840 times; h-index: 16.

List of five relevant publications within the last five years:

1. Calin M, Manduteanu I, Emerging nanocarriers-based approaches to diagnose and reduce vascular inflammation in atherosclerosis, *Curr Med Chem*. 2016 Nov 22. PMID: 27881067.

2. 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. PMID: 27703301.

3. 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;68(2):195-207. PMID: 26748549

4. 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;220(Pt A):341-347. PMID: 26522070.

5. 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*. 2015, 89:18-29. PMID: 25438248.