

# TEZA DE DOCTORAT

“Micro- si nanoparticule pentru sisteme cu eliberare controlata a medicamentelor”, Conducator stiintific: *prof. dr. Victor Bulacovschi*

sustinuta la data de 28.09.1999 la Universitatea Tehnica “Gh. Asachi” Iasi (Diploma de doctor Seria A, nr. 0004012 aprobata prin Ordinul Ministrului Invatamantului nr. 3337 din 8.03.2000).

## ACTIVITATEA STIINTIFICA

### I. CARTI SI CAPITOLE IN CARTI

#### I.1. CARTI:

Fundueanu G., “Micro- si nanoparticule folosite ca sisteme cu eliberare controlata a medicamentelor. I. Sinteza si caracterizare”, Ed. Tehnopress, Iasi, 2007.

#### I.2. CAPITOLE IN CARTI:

1. M. Constantin, G. Fundueanu, – [Key considerations in the design of polymeric micro- and nanoparticles for drug delivery systems](#) – in *Intelligent Polymers for Nanomedicine and nanotechnologies*; (Ed. M. Aflori), CRC Press, Taylor & Francis Group, USA, p. 81-109, 2017.
2. Fundueanu G., Constantin M., – [Site specific drug delivery to the gastrointestinal tract](#) – in *Medical Applications of Polymers. Macromolecular Drugs* (Ed. M. Popa, R. Ottenbrite, C. V. Uglea), American Scientific Publishers, Vol. 2, Chapter 7, p. 200-226, 2011.
3. V. Harabagiu, G. Fundueanu, M. Pinteala, M. Constantin, T. Hamaide – [Bioapplication oriented polymers. Micro- and nanoparticles for drug delivery systems](#) – in *Biomaterials from Molecules to Engineered Tissues* (ed. N. Hasirci & V. Hasirci), Kluwer Academic/Plenum Publishers, vol. 553, p. 69-83, 2004.

### II. ARTICOLE STIINTIFICE

#### II.1. Articole publicate in extenso in reviste de specialitate de circulatie internationala recunoscute (cotate ISI)

Nr. crt.	Autori/Articol/Revista	F.I. (2017)
1.	<u>Fundueanu G*</u> , Constantin M., Oanea I., Harabagiu V., Ascenzi P., Simionescu B.C., <a href="#">Entrapment and release of drugs by a strict "on-off" mechanism in pullulan microspheres with pendant thermosensitive groups</a> , <i>Biomaterials</i> 31 (36), 9544-9553, 2010.	8.806
2.	<u>Fundueanu G*</u> , Constantin M., Ascenzi P., <a href="#">Preparation and characterization of pH- and temperature-sensitive pullulan microspheres for controlled release of drugs</a> , <i>Biomaterials</i> 29 (18), 2767-2775, 2008.	8.806
3.	<u>Fundueanu G*</u> , Constantin M., Esposito E., Cortesi R., Nastruzzi C., Menegatti E., <a href="#">Cellulose acetate butyrate microcapsules containing dextran ion-exchange resins as self-propelled drug release system</a> , <i>Biomaterials</i> 26, 4337-4347, 2005.	8.806
4.	<u>Fundueanu G.</u> , Constantin M., Dalpiaz A., Bortolotti F., Cortesi R., Ascenzi P., Menegatti E., <a href="#">Preparation and characterization of starch/cyclodextrin bioadhesive microspheres as platform for nasal administration of Gabexate Mesilate (Foy®) in allergic rhinitis treatment</a> , <i>Biomaterials</i> 25, 159-170, 2004.	8.806
5.	<u>Fundueanu G.</u> , Nastruzzi C., Carpov A., Desbrieres J., Rinaudo M., <a href="#">Physico-chemical characterization of Ca-alginate microparticles produced with different methods</a> , <i>Biomaterials</i> 20, 1427-1435, 1999.	8.806
6.	Ghimici L., Constantin M., <u>Fundueanu G.</u> , <a href="#">Novel biodegradable flocculating agents based on pullulan</a> , <i>Journal of Hazardous Materials</i> 181 (1-3), 351-358, 2010.	6.434
7.	<u>Fundueanu G*</u> , Constantin M., Oanea I., Harabagiu V., Ascenzi P., Simionescu B.C., <a href="#">Prediction of the appropriate size of drug molecules that could be released by a pulsatile mechanism from pH/thermoresponsive microspheres obtained from preformed polymers</a> , <i>Acta Biomaterialia</i> 8 (3), 1281-1289, 2012.	6.383

8.	<a href="#">Fundueanu G*</a> , Constantin M., Ascenzi P., <a href="#">Poly(vinyl alcohol) microspheres with pH- and thermosensitive properties as temperature-controlled drug delivery</a> , <i>Acta Biomaterialia</i> 6 (10), 3899-3907, 2010.	6.383
9.	<a href="#">Fundueanu G*</a> , Constantin M., Ascenzi P., <a href="#">Poly(N-isopropylacrylamide-co-acrylamide) cross-linked thermoresponsive microspheres obtained from preformed polymers: Influence of the physico-chemical characteristics of drugs on their release profiles</a> , <i>Acta Biomaterialia</i> 5 (1), 363-373, 2009.	6.383
10.	David G., <a href="#">Fundueanu G.</a> , Pinteala M., Minea B., Dascalu A., Simionescu B.C., <a href="#">Polymer engineering for drug/gene delivery: from simple towards complex architectures and hybrid materials</a> , <i>Pure and Applied Chemistry</i> 86(11), 1621-1635, 2014.	5.294
11.	Constantin M., Bucatariu S., Doroftei F., <a href="#">Fundueanu G*</a> , <a href="#">Smart composite materials based on chitosan microspheres embedded in thermosensitive hydrogel for controlled delivery of drugs</a> , <i>Carbohydrate Polymers</i> 157, 493-502, 2017.	5.158
12.	Popescu I., Pelin I.M., Butnaru M., <a href="#">Fundueanu G.</a> , Suflet D., <a href="#">Phosphorylated curdlan microgels. Preparation, characterization, and in vitro drug release studies</a> , <i>Carbohydrate Polymers</i> 94(2), 889-898, 2013.	5.158
13.	Constantin M., Asmarandei I., Harabagiu V., Ghimici L., Ascenzi P., <a href="#">Fundueanu G.</a> , <a href="#">Removal of anionic dyes from aqueous solutions by an ion-exchanger based on pullulan microspheres</a> , <i>Carbohydrate Polymers</i> 91(1), 74-84, 2013.	5.158
14.	Constantin M., Mihalcea I., Oanea I., Harabagiu V., <a href="#">Fundueanu G*</a> , <a href="#">Studies on graft copolymerization of 3-acrylamidopropyl trimethylammonium chloride on pullulan</a> , <i>Carbohydrate Polymers</i> 84 (3), 926-932, 2011.	5.158
15.	<a href="#">Fundueanu G*</a> , Constantin M., Asmarandei I., Bucatariu S., Harabagiu V., Ascenzi P., Simionescu BC, <a href="#">Poly(N-isopropylacrylamide-co-hydroxyethylacrylamide) thermosensitive microspheres: The size of microgels dictates the pulsatile release mechanism</a> , <i>European Journal of Pharmaceutics and Biopharmaceutics</i> 85 (3), 614-623, 2013.	4.491
16.	<a href="#">Fundueanu G.</a> , Constantin M., Bortolotti F., Cortesi R., Ascenzi P., Menegatti E., <a href="#">Cellulose acetate butyrate-pH/thermosensitive polymer microcapsules containing aminated poly(vinyl alcohol) microspheres for oral administration of DNA</a> , <i>European Journal of Pharmaceutics and Biopharmaceutics</i> 66 (1), 11-20, 2007.	4.491
17.	Constantin M., Bucatariu S., Stoica I., <a href="#">Fundueanu G*</a> , <a href="#">Smart nanoparticles based on pullulan-g-poly(N-isopropylacrylamide) for controlled delivery of indomethacin</a> , <i>International Journal of Biological Macromolecules</i> 94 , 698-708, 2017.	3.909
18.	Constantin M., Bucatariu S., Harabagiu V., Ascenzi P., <a href="#">Fundueanu G*</a> , <a href="#">Do cyclodextrins bound to dextran microspheres act as sustained delivery systems of drugs?</a> <i>International Journal of Pharmaceutics</i> 469(1), 1-9, 2014.	3.862
19.	<a href="#">Fundueanu G*</a> , Constantin M., Ascenzi P., <a href="#">Fast-responsive porous thermoresponsive microspheres for controlled delivery of macromolecules</a> , <i>International Journal of Pharmaceutics</i> 379 (1-2), 9-17, 2009.	3.862
20.	Constantin M., <a href="#">Fundueanu G.</a> , Bortolotti F., Cortesi R., Ascenzi P. and Menegatti E., <a href="#">A novel multicompartimental system based on aminated poly(vinyl alcohol) microspheres/succinoylated pullulan microspheres for oral delivery of anionic drugs</a> , <i>International Journal of Pharmaceutics</i> 330 (1-2), 129-137, 2007.	3.862
21.	Constantin M., <a href="#">Fundueanu G.</a> , Bortolotti F., Cortesi R., Ascenzi P., Menegatti E., <a href="#">Preparation and characterisation of poly(vinyl alcohol)/cyclodextrin microspheres as matrix for inclusion and separation of drugs</a> . <i>International Journal of Pharmaceutics</i> 285 (1-2), 87-96, 2004.	3.862
22.	<a href="#">Fundueanu G.</a> , Mocanu G., Constantin M., Carpov A., Bulacovschi V., Esposito E., Nastruzzi C., <a href="#">Acrylic microspheres for oral controlled release of the biguanide buformin</a> , <i>International Journal of Pharmaceutics</i> 218, 13-25, 2001.	3.862
23.	<a href="#">Fundueanu G.</a> , Esposito E., Mihai D., Carpov A., Desbrieres J., Rinaudo M., Nastruzzi C., <a href="#">Preparation and characterisation of Ca-alginate microspheres by a new modification method</a> , <i>International Journal of Pharmaceutics</i> 170, 11-21, 1998.	3.862
24.	<a href="#">Fundueanu G.</a> , Constantin M., Bortolotti F., Cortesi R., Ascenzi P., Menegatti E., <a href="#">Poly[(N-isopropylacrylamide-co-acrylamide-co-hydroxyethylmethacrylate)] thermoresponsive microspheres: an accurate method based on solute exclusion technique to determine the volume phase transition temperature</a> , <i>European Polymer Journal</i> 43, 3500-3509, 2007.	3.741
25.	Dragan S., Dranca I., Ghimici L., Cristea M., <a href="#">Fundueanu G.</a> , Lupascu T., <a href="#">Thermal behaviour of</a>	3.741

	some cationic polyelectrolytes and electrolyte complexes, <i>European Polymer Journal</i> 34, 733-737, 1998.	
26.	<a href="#">Fundueanu G*</a> , Constantin M., Bucatariu S., Ascenzi P., <a href="#">pH/thermo-responsive poly(N-isopropylacrylamide-co-maleic acid) hydrogel with a sensor and an actuator for biomedical applications</a> <i>Polymer</i> 110, 177-186, 2017.	3.483
27.	Constantin M., Bucatariu S., Harabagiu V., Popescu I., Ascenzi P., <a href="#">Fundueanu G*</a> , <a href="#">Poly(N-isopropylacrylamide-co-methacrylic acid) pH/thermo-responsive porous hydrogels as self-regulated drug delivery system</a> , <i>European Journal of Pharmaceutical Sciences</i> 62, 86-95, 2014.	3.466
28.	<a href="#">Fundueanu G.</a> , Constantin M., Bortolotti F., Ascenzi P., Cortesi R., Menegatti E., <a href="#">Preparation and characterisation of thermoresponsive poly[(N-isopropylacrylamide-co-acrylamide-co-(hydroxyethyl acrylate)] microspheres as a matrix for the pulsed release of drugs</a> , <i>Macromolecular Bioscience</i> 5, 955-964, 2005.	3.392
29.	<a href="#">Fundueanu G*</a> , Constantin M., Asmarandei I., Harabagiu V., Ascenzi P., Simionescu B.C., <a href="#">The thermosensitivity of pH/thermo-responsive microspheres activated by the electrostatic interaction of pH-sensitive units with a bioactive compound</a> , <i>Journal of Biomedical Materials Research - Part A</i> 101 A (6), 1661-1669, 2013.	3.231
30.	Constantin M., <a href="#">Fundueanu G.</a> , Cortesi R., Esposito E., Nastruzzi C., <a href="#">Aminated polysaccharide microspheres as DNA delivery systems</a> , <i>Drug Delivery</i> 10, 1-11, 2003.	3.095
31.	Constantin M., Cristea M., Ascenzi P., <a href="#">Fundueanu G*</a> , <a href="#">Lower critical solution temperature versus volume phase transition temperature in thermoresponsive drug delivery systems</a> , <i>Express Polymer Letters</i> 5 (10), 839-848, 2011.	3.064
32.	Mihai M., Ghiorghita C.A., Nita L., Popescu I., <a href="#">Fundueanu G.</a> , <a href="#">New polyelectrolyte complex particles as colloidal dispersions based on weak synthetic and/or natural polyelectrolytes</a> , <i>Express Polymer Letters</i> 5(6), 506-515, 2011.	3.064
33.	Bucatariu S., Constantin M., Ascenzi P., <a href="#">Fundueanu G*</a> , <a href="#">Poly(lactide-co-glycolide)/cyclodextrin (polyethyleneimine) microspheres for controlled delivery of dexamethasone</a> , <i>Reactive &amp; Functional Polymers</i> 107, 46-53, 2016.	2.975
34.	Constantin M., Bucatariu S., Ascenzi P., Simionescu BC, <a href="#">Fundueanu G*</a> , <a href="#">Poly(NIPAAm-co-β-cyclodextrin) microgels with drug hosting and temperature-dependent delivery properties</a> , <i>Reactive &amp; Functional Polymers</i> 84, 1-9, 2014.	2.975
35.	Bucatariu F., Simon F., Bellmann C., <a href="#">Fundueanu G.</a> , Dragan E.S., <a href="#">Stability under flow conditions of trypsin immobilized onto poly(vinyl amine) functionalized silica microparticles</a> , <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 399, 71-77, 2012.	2.829
36.	Bucatariu F., <a href="#">Fundueanu G.</a> , Hitruc G., Dragan E.S., <a href="#">Single polyelectrolyte multilayers deposited onto silica microparticles and silicon wafers</a> , <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> 380 (1-3), 111-118, 2011.	2.829
37.	<a href="#">Fundueanu G*</a> , Constantin M., Bucatariu S., Ascenzi P., <a href="#">Poly(N-isopropylacrylamide-co-N-isopropylmethacrylamide) thermo-responsive microgels as self-regulated drug delivery system</a> , <i>Macromolecular Chemistry and Physics</i> 217( 22) , 2525-2533, 2016.	2.50
38.	Nichifor M., Constantin M., Mocanu G., <a href="#">Fundueanu G.</a> , Branisteanu D., Costuleanu M., Radu C. D., <a href="#">New multifunctional textile biomaterials for the treatment of leg venous insufficiency</a> , <i>Journal of Materials Science: Materials in Medicine</i> 20(4), 975-982, 2009.	2.448
39.	<a href="#">Fundueanu G.</a> , Constantin M., Mihai D., Bortolotti F., Cortesi R., Ascenzi P., Menegatti E., <a href="#">Pullulan-cyclodextrin microspheres. A chromatographic approach for the evaluation of the drug – cyclodextrin interactions and the determination of the drug release profiles</a> , <i>Journal of Chromatography B</i> , 791 407 – 419, 2003.	2.441
40.	<a href="#">Fundueanu G*</a> , Constantin M., Mocanu G., Carpov A., Menegatti E., Nastruzzi C., <a href="#">Preparation and characterization of acrylic copolymer microspheres for the controlled release of lipophilic quinidine</a> , <i>S.T.P. Pharma Sciences</i> 13 (5), 305-312, 2003. (Revista s-a transformat in <i>Journal of Drug Delivery Science and Technology</i> ).	2.297
41.	Mocanu G., Constantin M., <a href="#">Fundueanu G.</a> , Carpov A., <a href="#">Macromolecular prodrugs. Synthesis and hydrolytic behavior of three different drugs bounded on chloroacetyl or chlorodesoxy pullulan</a> , <i>S.T.P. Pharma Sciences</i> 10 (6), 439-444, 2000. (Revista s-a transformat in <i>Journal of Drug Delivery Science and Technology</i> ).	2.297
42.	<a href="#">Fundueanu G*</a> , Constantin M., Ascenzi P., Simionescu B.C., <a href="#">An intelligent multicompartamental system based on thermo-sensitive starch microspheres for temperature-controlled release of drugs</a> , <i>Biomedical Microdevices</i> 12 (4), 693-704, 2010.	2.077

43.	Bucatariu F., Simon F., <u>Fundueanu G.</u> , Dragan E.S., <a href="#">Design of silica microparticles with oligopeptide brushes and their interaction with proteins</a> , <i>Colloid and Polymer Science</i> 289 (1), 33-41, 2011.	<b>1.967</b>
44.	Tarabukina E., Rozanova A., Filippov A., Constantin M., Harabagiu V., <u>Fundueanu G.</u> , <a href="#">Thermo- and pH-responsive phase separation of N-isopropylacrylamide with 4-vinylpyridine random copolymer in aqueous solutions</a> , <i>Colloid and Polymer Science</i> 296( 3), 557-565, 2018.	<b>1.967</b>
45.	Cortesi R., Ajanji S.C., Sivieri E., Manservigi M., <u>Fundueanu G.</u> , Menegatti E., Esposito E. , <a href="#">“Eudragit microparticles as a possible tool for ophthalmic administration of acyclovir”</a> , <i>Journal of Microencapsulation</i> , 24 (5), p.445-456, 2007.	<b>1.793</b>
46.	Tarabukina E., Seyednov E., Filippov A., Constantin M., Harabagiu V., Fundueanu G., <a href="#">Thermoresponsive Properties of N-Isopropylacrylamide with Methacrylic Acid Copolymer in Media of Different Acidity</a> , <i>Macromolecular Research</i> 25(7), 680-688, 2017.	<b>1.767</b>
47.	Popescu I., Prisacaru A., Suflet D., <u>Fundueanu G.</u> , <a href="#">Thermo- and pH-sensitivity of poly (N-vinylcaprolactam-co-maleic acid) in aqueous solution</a> , <i>Polymer Bulletin</i> 71(11), 2863-2880, 2014.	<b>1.589</b>
48.	Bucatariu S., <u>Fundueanu G.</u> , Prisacaru I., Balan M., Stoica I., Harabagiu V., Constantin M., <a href="#">Synthesis and characterization of thermosensitive poly(N-isopropylacrylamide-co-hydroxyethylacrylamide) microgels as potential carriers for drug delivery</a> , <i>Journal of Polymer Research</i> 21(11), 580, 2014	<b>1.434</b>
49.	Asmarandei I., <u>Fundueanu G.</u> , Cristea M., Harabagiu V., Constantin M., <a href="#">Thermo- and pH-sensitive interpenetrating poly(N-isopropylacrylamide)/carboxymethyl pullulan network for drug delivery</a> , <i>Journal of Polymer Research</i> 20(11), 293, 2013.	<b>1.434</b>
50.	Avadanei M., <u>Fundueanu G.</u> , <a href="#">Comparative vibrational study of two N-isopropylacrylamide-based co-polymers: Influence of the polymer hydrophobicity on the phase transition</a> , <i>Vibrational Spectroscopy</i> 63, 311-324, 2012.	<b>1.363</b>
51.	Avadanei M., Avadanei O., <u>Fundueanu G.</u> , <a href="#">Effect of comonomer ratio and ionic strength on the thermo-induced conformational changes in N-isopropylacrylamide based copolymers: An ATR-FTIR spectroscopic study</a> , <i>Vibrational Spectroscopy</i> 61, 133-143, 2012.	<b>1.363</b>
52.	<u>Fundueanu G.*</u> , Constantin M., Bucatariu S., Mocanu G., <a href="#">Cation exchange hydrogels as platform for loading and controlled delivery of drug</a> , <i>Journal of Nanoscience and Nanotechnology</i> 17(7), 4643-4648, 2017.	<b>1.354</b>
53.	Doroftei F., Mihai M., Sacarescu L., <u>Fundueanu G.</u> , Simionescu B.C., <a href="#">Composite materials based on poly(N-isopropylacrylamide-co-methacrylic acid) hydrogels and calcium carbonate</a> , <i>High Performance Polymers</i> 27(5), 516-525, 2015.	<b>1.047</b>
54.	Constantin M., Asmarandei I., Filimon A., <u>Fundueanu G.*</u> , <a href="#">Synthesis, characterization, and solution behavior of pullulan functionalized with tertiary amino groups</a> , <i>High Performance Polymers</i> 27(5), 625-636, 2015.	<b>1.047</b>
55.	Filippov A., Tarabukina, E., Simonova M., Kirila T., <u>Fundueanu G.</u> , Harabagiu V., Constantin M., Popescu I., <a href="#">Synthesis and investigation of double stimuli-responsive behavior of N-isopropylacrylamide and maleic acid copolymer in solutions</a> , <i>Journal of Macromolecular Science Part B-Physics</i> 54(9), 1105-1121, 2015.	<b>1.005</b>
56.	Constantin M., Oanea I., Harabagiu V., Ascenzi P., <u>Fundueanu G.*</u> , <a href="#">DNA complexation by cationic pullulan possessing thermo-sensitive units</a> , <i>Digest Journal of Nanomaterials and Biostructures</i> 6 (2), 849-861, 2011.	<b>0.673</b>
57.	Suflet D.M., Popescu I., Pelin I.M., Nistor M.T., Hitruc G.E., Doroftei F., <u>Fundueanu G.</u> , <a href="#">Preparation and characterization of microcapsules based on phosphorylated curdlan and hydrolyzed collagen</a> , <i>Digest Journal of Nanomaterials and Biostructures</i> 6 (2), 653-661, 2011.	<b>0.673</b>
58.	Simonova M.A., Tarabukina E.B., Filippov A.P., <u>Fundueanu G.</u> , Harabagiu V., Constantin M., Popescu I., <a href="#">Effect of concentration on the properties of heat- and pH-sensitive copolymers of poly(N-isopropylacrylamide) with maleic acid in aqueous solutions</a> , <i>Fibre Chemistry</i> 47(3), 152-155, 2015.	<b>0.332</b>
59.	Constantin M., <u>Fundueanu G.</u> , <a href="#">Cyclodextrin-containing poly(vinylalcohol) as non-viral gene delivery systems. 1. Preparation of polymers</a> , <i>Revue Roumaine de Chimie</i> 54 (11-12), 1031-1039, 2009.	<b>0.370</b>
60.	Constantin M., <u>Fundueanu G.</u> , Nichifor M., <a href="#">Synthesis and characterization of novel flavonoid based biomaterials</a> , <i>Revue Roumaine de Chimie</i> 53 (9), 753-758 2008.	<b>0.370</b>

## II.2. Articole publicate in extenso reviste de specialitate din strainatate (reviste necotate ISI)

1.	Tarabukina E., Simonova M., Bucatariu S., Harabagiu V., <u>Fundueanu G.</u> , Filippov A.P., <a href="#">Behavior of thermo- and pH-responsive copolymer of N-isopropylacrylamide and maleic acid in aqueous solutions</a> <i>International Journal of Polymer Analysis and Characterization</i> 21(1), 11-17, 2016.	-
2.	Bucatariu F., Dragan S.E., <u>Fundueanu G.</u> , Covaci A., Dirtu A.C., <a href="#">Interaction of some persistent organic pollutants with oligopeptide chains formed onto silica microparticles</a> , <i>Research Journal of Chemistry and Environment</i> 17 (1), 68-75, 2013.	-
3.	Simionescu B.C., Pinteala M., Stanciu A., <u>Fundueanu G.</u> , Harabagiu V., <a href="#">Polymeric materials – from fundamental research to specific applications</a> , <i>International Journal of Forming Processes</i> 10(1), 9-22, 2007.	
4.	Nastruzzi C., <u>Fundueanu G.</u> , Cortesi R., Esposito E., Gambari R., Carpov A., Menegatti E., <a href="#">Preparation of pullulan based microspheres entrapment of aromatic tetraamides by ion-exchange principles</a> <i>Pharmaceutical and Pharmacological Letters</i> 3, 51, 1993.	-

## II.3. Articole publicate in alte reviste de specialitate din tara recunoscute de catre CNCSIS (B+)

1.	<u>Fundueanu G.</u> , Constantin M., Stanciu C., Mihalcea I., <a href="#">Preparation of pullulan microspheres with thermoresponsive properties as temperature-controlled drug delivery system</a> , <i>Annals of West University of Timisoara, Series of Chemistry</i> 18 (1), 81-92, 2009.	
2.	<u>Fundueanu G.</u> , Constantin M., <a href="#">A multireservoir system for delivery of drugs to small and large intestine after oral administration</a> , <i>Annals of West University of Timisoara</i> 14 (1), 77-86, 2005.	

## II.4. Articole/studii publicate in extenso in volumele unor manifestari stiintifice internationale recunoscute din tara si strainatate

1.	Avadanei M., <u>Fundueanu G.</u> , <a href="#">ATR-FTIR spectroscopic studies of thermally induced conformational changes of PNIPAAm copolymers in solution</a> , <i>Proceedings of SPIE - The International Society for Optical Engineering</i> 8001, art. no. 80013I, 2011 (ISBN: 9780819485755).	
2.	Mihai M., Doroftei F., <u>Fundueanu G.</u> , Schwarz S., <a href="#">Microcapsules based on synthetic and natural polyelectrolytes</a> , <i>Proc. Xeme Colloque Franco-Roumain sur les Polymeres</i> , Douai, France, 6-8 septembre 2011 (ISBN: 978-1-61668-624-6).	
3.	Simionescu B.C., Pinteala M., Stanciu A., <u>Fundueanu G.</u> , Harabagiu V., <a href="#">Polymeric materials: from fundamental research to specific applications</a> , <i>Proceedings of the 8th ESAFORM Conference on Material Forming</i> , Cluj-Napoca 2005 (ISBN 973-27-1173-6).	
4.	Constantin M., <u>Fundueanu G.</u> , Cortesi R., Esposito E., Nastruzzi C., <a href="#">Aminated polysaccharide microspheres as DNA delivery systems</a> , <i>Proc. 4th World Meeting on Pharmaceutics Biopharmaceutics Pharmaceutical Technology</i> , Florence, 8-11 april 2002, pp. 983-984.	
5.	Constantin M., <u>Fundueanu G.</u> , Carpov A., <a href="#">Aminated polysaccharide microspheres as support for DNA transport in gene therapy</a> , <i>12-th Romanian International Conference on Chemistry and Chemical Engineering</i> , Bucuresti, p. 422-427, 2001 (ISBN 973-652-382-9).	
6.	<u>Fundueanu G.</u> , Constantin M., Carpov A., <a href="#">Acrylic-copolymers microspheres for oral controlled release of quinidine</a> , <i>12-th Romanian International Conference on Chemistry and Chemical Engineering</i> , Bucuresti, p. 428-433, 2001 (ISBN 973-652-382-9).	

## III. Proiecte de cercetare-dezvoltare-inovare

**III.1.** Responsabil partener: G. Fundueanu; Director proiect: Maya Simionescu, [Terapii inteligente pentru boli non comunicabile bazate pe eliberarea controlata de compusi farmacologici din celule incapsulate dupa manipulare genetica sau bionanoparticule vectorizate](#),

Cod proiect: PN-III-P1-1.2-PCCDI-2017-0697 (2018-2020)

**III.2.** Responsabil partener: G. Fundueanu; Director proiect: Marcel Popa, [Sisteme inovative de eliberare controlata sub forma de particule pentru tintirea segmentului posterior ocular](#),

Cod proiect: PN-II-PT-PCCA-2013-4-1570 (2013-2017)

**III.3.** Responsabil grup: [G. Fundueanu](#); Director proiect: Mariana Pinteala, [Laboratory of Supramolecular Chemistry for Adaptive Delivery Systems](#),

Cod proiect: Orizont 2020 WIDESPREAD 2-2014 ERA CHAIR GA nr. 667387 (2015-2020)

**III.4.** Director proiect: [G. Fundueanu](#), [Micro si nanoparticule inteligente pe baza de polimeri sensibili la stimuli externi si/sau polimeri cu amprenta moleculara ca sisteme cu eliberare cu autoreglare a medicamentelor](#),

Cod proiect: PCE-ID-989, nr. 644/2009 (2009-2012).

**III.5.** Expert pe termen lung (tutore): [G. Fundueanu](#), [Fondul social european – program de burse postdoctorale „Cristofor I. Simionescu”](#),

Cod proiect: POSDRU/89/1.5/S/55216, Contractul nr. E 1858/31.03.2010 (2010-2013)

**III.6.** Responsabil partener: [G. Fundueanu](#); Director proiect: Eugen Gheorghiu, [Controlul interactiei celulelor umane si bacteriene cu suprafete nanostructurate: strategii pentru realizarea de biosuprafete “inteligente”](#),

Cod proiect: CEEEX/ RELANSIN nr.199/2006 (2006-2008)

**III.7.** Director proiect : [G. Fundueanu](#), [Materiale multifunctionale bazate pe cunoastere avansata cu aplicatii biotehnologice si biomedicale. Micro- si nanoparticule obtinute din polimeri cu amprenta moleculara si polimeri sensibili la stimuli exteriori de tip pH/temperatura folosite ca noi sisteme de eliberare controlata a medicamentelor si ca mijloace de analiza a substantelor active](#),

Cod proiect : Colaborare bilaterala Romania-Grecia (2005-2007)

**III.8.** Director proiect : [G. Fundueanu](#), [Microparticule polimerice folosite drept sisteme de eliberare controlata pentru medicamente si compusi bioactivi](#),

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**III.9.** Mentor : [G. Fundueanu](#) ; Director proiect : Irina Popescu, [Micro-/nano-particule sensibile la stimuli pe baza de copolimeri maleici cu aplicatii biomedicale](#),

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**III.10.** Director proiect: Mariana Pinteala; membru in echipa: [G. Fundueanu](#), [Biologically Inspired Systems for Engineered Structural and Functional Entities](#),

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**III.11.** Director proiect: Mariana Pinteala; membru in echipa: [G. Fundueanu](#), [Nanoconjugate multifunctionale pentru sinteza combinatoriala si nanomedicina](#),

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**III.12.** Director proiect: Marieta Nichifor; membru in echipa: [G. Fundueanu](#), [Auto-asamblari sau asamblari mixte la scara nanometrica ale sistemelor care contin polielectroliti amfifili in solutii diluate, concentrate sau in geluri](#),

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**III.14.** Director proiect: Georgeta Mocanu; membru in echipa: [G. Fundueanu](#), [Biosinteza, modificarea chimica, caracterizarea analitica si imunologica a unor polizaharide micro- si nanostructurate, utilizabile ca adjuvanti pentru noi generatii de vaccinuri](#),

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**III.15.** Director proiect: Marieta Nichifor; membru in echipa: [G. Fundueanu](#), [Biomateriale polimere avansate cu structura si proprietati dirijate, cu aplicatii in industria farmaceutica si alimentara](#),

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**III.16.** Director proiect: Marieta Nichifor; membru in echipa: [G. Fundueanu](#), [Obtinerea, caracterizarea fizico-chimica si biologica a unor biopreparate glicozid-steroidice de origine vegetala](#),

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**III.17.** Director proiect: Valeria Harabagiu; membru in echipa: [G. Fundueanu](#), [Retea stiintifica integrata pentru dezvoltarea materialelor polimere multifunctionale bazate pe cunoastere](#),

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**III.18.** Director proiect: Gabriela Chitanu; membru in echipa: [G. Fundueanu](#), [Retea de cercetare integrata pentru nanomedicina](#),

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**III.19.** Director proiect: Georgeta Mocanu; membru in echipa: [G. Fundueanu](#), [Tehnologii de utilizare a unui polizaharid de biosinteza, de productie romaneasca pentru stabilizarea, acoperirea si dirijarea biodisponibilitatii anumitor forme farmaceutice ca suplimente nutritive](#),

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**III.22.** Director proiect: Marieta Nichifor; membru in echipa: [G. Fundueanu](#), [Sinteza de noi polimeri amfifili biodegradabili si studiul interactiunii acestora cu agenti tensioactivi in scopul obtinerii de materiale cu aplicabilitate in farmacii, biotehnologie sau industrie](#)

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