

Lista detaliată a lucrărilor, cu evidențierea autorilor cu afiliere IBPC NS, a doctoranzilor și a conducătorilor de doctorat

Tabelul include lucrările publicate în perioada 2020–2026 și evidențiază participarea doctoranzilor și a conducătorilor de doctorat ai IBPC NS la producția științifică a institutului.

Anul	Lucrări ISI	Lucrări BDI	Capitole carte	Brevete	Total lucrări
2020	28	4	4	1	36
2021	31	0	0	3	34
2022	31	3	0	3	37
2023	18	2	1	3	23
2024	34	0	0	0	34
2025	44	2	1	2	49
01.01-28.06.2026	21	0	0	0	21
Total 2020–2026	207	11	6	12	236

2020

Capitole cărți/tratate/monografii publicate la o editură consacrată din străinătate: 4

- 1) Rosca A.-M., Tutuianu R., Titorencu I., 2020, "Advances in skin regeneration and reconstruction", Frontiers in Stem Cell and Regenerative Medicine Research, 9, pp. 143-187
- 2) Gherghiceanu M., Alexandru N., Magda S.L., Constantin A., Nemecz M., Filippi A., Ioghen O.C., Ceafalan L.C., Bojin F., Tanko G., Paunescu V., Vinereanu D., Stepien E., Georgescu A., 2020, "Extracellular vesicles as valuable players in diabetic cardiovascular diseases", Ana Gil De Bona, Jose Antonio Reales-Calderon (eds.), Extracellular Vesicles and Their Importance in Human Health, IntechOpen, ISBN 978-1-78923-944-7
- 3) Ceafalan L.C., Ioghen O.C., Marta D.S., Constantin A., Alexandru N., Nemecz M., Tanko G., Filippi A., Magda S.L., Bojin F., Paunescu V., Vinereanu D., Georgescu A., Gherghiceanu M., 2020, "Extracellular Vesicles as Risk Factor in Neurodegenerative Diseases", Ana Gil De Bona, Jose Antonio Reales-Calderon (eds.), Extracellular Vesicles and Their Importance in Human Health, IntechOpen, ISBN 978-1-78923-944-7
- 4) Fuior E.V., Calin M., 2020, "Nanoparticle-based delivery of polyphenols for the treatment of inflammation-associated diseases", Manju Rawat Singh, Deependra Singh, Jagat Kanwar, Nagendra Singh Chauhan (eds.), Advances and Avenues in development of novel carriers for Bioactives and biological agents, Academic Press, ELSEVIER, ISBN 978-0-12-819666-3

Lista Articole ISI

- a. Simona-Adriana Manea, Mihaela-Loredana Vlad, Ioana Madalina Fenyo, Alexandra-Gela Lazar, Monica Raicu, Horia Muresian, Maya Simionescu, Adrian Manea, "Pharmacological inhibition of histone deacetylase reduces NADPH oxidase expression, oxidative stress and the progression of atherosclerotic lesions in hypercholesterolemic apolipoprotein E-deficient mice; potential implications for human atherosclerosis", Redox Biology, vol. 28, 2020, 1-13 pagini, WOS:000501490700055, <https://doi.org/10.1016/j.redox.2019.101338>, Q1
- b. Lucia Doina Popov, "Mitochondrial biogenesis: An update", J Cell Mol Med, vol. 24(9), 2020, 4892-4899 pagini, WOS:000526000600001, <https://doi.org/10.1111/jcmm.15194>, Q1
- c. Nicoleta Alexandru, Eugen Andrei, Florentina Safciuc, Emanuel Dragan, Ana Maria Balahura, Elisabeta Badila, Adriana Georgescu, "Intravenous administration of allogenic cell-derived microvesicles of healthy origins defends against atherosclerotic cardiovascular disease development by a direct action on endothelial progenitor cells", Cells, vol. 9(2), 2020, 1-24 pagini, WOS:000521944900164, <https://doi.org/10.3390/cells9020423>, Q1

- d. Alina Constantin, Alexandru Filippi, Nicoleta Alexandru, Miruna Nemecz, Adriana Georgescu, "Extracellular Vesicles from Adipose Tissue Stem Cells in Diabetes and Associated Cardiovascular Disease; Pathobiological Impact and Therapeutic Potential", *Int. J. Mol. Sci.*, vol. 21(24), 2020, 9598-9623 pagini, WOS:000602937800001, <https://doi.org/10.3390/ijms21249598>, Q1
- e. Wu X, Niculite CM, Preda MB, Rossi A, Tebaldi T, Butoi E, White MK, Tudoran OM, Petrusca DN, Jannasch AS, Bone WP, Zong X, Fang F, Burlacu A, Paulsen MT, Hancock BA, Sandusky GE, Mitra S, Fishel ML, Buechlein A, Ivan C, Oikonomopoulos S, Gorospe M, Mosley A, Radovich M, Davé UP, Ragoussis J, Nephew KP, Mari B, McIntyre A, König H, Ljungman M, Cousminer DL, Macchi P, Ivan M, "Regulation of cellular sterol homeostasis by the oxygen responsive noncoding RNA lincNORS", *Nat Commun*, vol. 11(1), 2020, <https://doi.org/10.1038/s41467-020-18521-7>, Q1
- f. Preda MB, Lupan AM, Neculachi CA, Leti LI, Fenyo IM, Popescu S, Rusu EG, Marinescu CI, Simionescu M, Burlacu A, "Evidence of mesenchymal stromal cell adaptation to local microenvironment following subcutaneous transplantation", *J Cell Mol Med*, vol. 24(18), 2020, 10889-10897 pagini, WOS:000558333200001, <https://doi.org/10.1111/jcmm.15713>, Q1
- g. Toma L, Sanda GM, Răileanu M, Stancu CS, Niculescu LS, Sima AV, "Ninjurin-1 upregulated by TNF α receptor 1 stimulates monocyte adhesion to human TNF α -activated endothelial cells; benefic effects of amlodipine", *Life Sciences*, vol. 249, 2020, WOS:000524469100023, <https://doi.org/10.1016/j.lfs.2020.117518>, Q1
- h. Barbălată T, Zhang L, Dulceanu MD, Stancu CS, Devaux Y, Sima AV, Niculescu LS, EU-CardioRNA COST Action CA17129, "Regulation of microRNAs in high-fat diet induced hyperlipidemic hamsters", *Scientific Reports*, vol. 10, 2020, WOS:000596296000036, <https://doi.org/10.1038/s41598-020-77631-0>, Q1
- i. Barbălată T, Moraru OE, Stancu CS, Devaux Y, Simionescu M, Sima AV, Niculescu LS, EU-CardioRNA COST Action CA17129, "Increased miR-142 Levels in Plasma and Atherosclerotic Plaques from Peripheral Artery Disease Patients with Post-Surgery Cardiovascular Events", *International Journal of Molecular Sciences*, vol. 21(24), 2020, WOS:000603020500001, <https://doi.org/10.3390/ijms21249600>, Q1
- j. Toma L, Sanda GM, Niculescu LS, Deleanu M, Sima AV, Stancu CS, "Phenolic Compounds Exerting Lipid-Regulatory, Anti-Inflammatory and Epigenetic Effects as Complementary Treatments in Cardiovascular Diseases", *Biomolecules*, vol. 10(4), 2020, WOS:000539492400145, <https://doi.org/10.3390/biom10040641>, Q1
- k. Tutuianu R, Rosca AM, Albu Kaya MG, Pruna V, Neagu TP, Lascar I, Simionescu M, Titorencu I, "Mesenchymal stromal cell-derived factors promote the colonization of collagen 3D scaffolds with human skin cells", *Journal of cellular and molecular medicine*, vol. 24(17), 2020, 9692-9704 pagini, WOS:000548240200001, <https://doi.org/10.1111/jcmm.15525>, Q1
- l. Vacaru AM, Dumitrescu M, Vacaru AM, Fenyo IM, Ionita R, Gafencu AV, Simionescu M, "Enhanced Suppression of Immune Cells In Vitro by MSC Overexpressing FasL", *Int J Mol Sci*, vol. 22(1), 2020, WOS:000606069600001, <https://doi.org/10.3390/ijms22010348>, Q1
- m. Dumitrescu M, Trusca VG, Savu L, Stancu IG, Ratiu AC, Simionescu M, Gafencu AV, "Adenovirus-Mediated FasL Minigene Transfer Endows Transduced Cells with Killer Potential", *Int J Mol Sci*, vol. 21(17), 2020, WOS:000569573700001, <https://doi.org/10.3390/ijms21176011>, Q1
- n. Ciortan L, Macarie RD, Cecoltan S, Vadana M, Tucureanu MM, Mihaila AC, Droc I, Butoi E, Manduteanu I, "Chronic High Glucose Concentration Induces Inflammatory and Remodeling Changes in Valvular Endothelial Cells and Valvular Interstitial Cells in a Gelatin Methacrylate 3D Model of the Human Aortic Valve", *Polymers*, vol. 12(12), 2020, WOS:000948210200001, <https://doi.org/10.3390/polym12122786>, Q1
- o. 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*, vol., 12(6), 2020,

WOS:000551539900001, <https://doi.org/10.3390/pharmaceutics12060507>, Q1

- p. Constantin M, Bucatariu S, Sacarescu L, Daraba OM, Anghelache M, Fundueanu G, "Pullulan derivative with cationic and hydrophobic moieties as an appropriate macromolecule in the synthesis of nanoparticles for drug delivery", *Int J Biol Macromol*, vol., 164, 2020, 4487-4498, pagini, WOS:000588093700427, <https://doi.org/10.1016/j.ijbiomac.2020.09.064>, Q1
- q. Fuior EV, Mocanu CA, Deleanu M, Voicu G, Anghelache M, Rebleanu D, Simionescu M, Calin M, "Evaluation of VCAM-1 Targeted Naringenin/Indocyanine Green-Loaded Lipid Nanoemulsions as Theranostic Nanoplatforms in Inflammation", *Pharmaceutics*, vol. 12, 2020, WOS:000594381300001, <https://doi.org/10.3390/pharmaceutics12111066>, Q1
- r. Bucatariu S, Constantin M, Varganici CD, Rusu D, Nicolescu A, Prisacaru I, Carnuta M, Anghelache M, Calin M, Ascenzi P, Fundueanu G, "A new sponge-type hydrogel based on hyaluronic acid and poly(methylvinylether-alt-maleic acid) as a 3D platform for tumor cell growth", *Int J Biol Macromol*, vol. 165, 2020, 2528-2540 pagini, WOS:000600773500087, <https://doi.org/10.1016/j.ijbiomac.2020.10.142>, Q1
- s. Vișan AI, Popescu-Pelin G, Gherasim O, Mihăilescu A, Socol M, Zgura I, Chirițoiu M, Sima LE, Antohe F, Ivan L, Vrâncianu DM, Cotruț CM, Cristescu R, Socol G, "Long-Term Evaluation of Dip-Coated PCL-Blend-PEG Coatings in Simulated Conditions", *POLYMERS*, vol., 12(3), 2020, WOS:000525952000216, <https://doi.org/10.3390/polym12030717>, Q1
- t. Boteanu RM, Suica VI, Ivan L, Safciuc F, Uyy E, Dragan E, Croitoru SM, Grumezescu V, Chiritoiu M, Sima LE, Vlagioiu C, Socol G, Antohe F, "Proteomics of regenerated tissue in response to a titanium implant with a bioactive surface in a rat tibial defect model", *Sci Rep*, vol. 10(1), 2020, WOS:000587654800001, <https://doi.org/10.1038/s41598-020-75527-2>, Q1
2. Alexandru Filippi, Alina Constantin, Nicoleta Alexandru, Geanina Voicu, Cristina Ana Constantinescu, Daniela Rebleanu, Madalina Fenyo, Dan Simionescu, Agneta Simionescu, Ileana Manduteanu, Adriana Georgescu. Integrins $\alpha 4\beta 1$ and $\alpha V\beta 3$ are reduced in endothelial progenitor cells from diabetic dyslipidemic mice and may represent new targets for therapy in aortic valve disease. *Cell Transplantation*. 9:1–8, 2020. WOS:000573455300100. <https://doi.org/10.1177/0963689720905372>, Q2
3. Roxana-Olimpia Gheorghe, Alexandru Deftu, Alexandru Filippi, Andreea Grosu, Melania Bica-Popi, Marioara Chiritoiu, Gabriela Chiritoiu, Cristian Munteanu, Luigi Silvestro, Violeta Ristoiu. Silencing the cytoskeleton protein Iba1 (ionized calcium binding adapter protein 1) interferes with BV2 microglia functioning. *Cellular and molecular neurobiology.*, 40:1011-1027, 2020., WOS:000507715300002. <https://doi.org/10.1007/s10571-019-00762-0>, Q2
4. Ariana Picu, Laura Petcu, Diana Simona Stefan, Gratiela Gradisteanu Pircalabioru, Manuela Mitu, Daiana Bajko, Daniela Lixandru, Cristian Guja, Octavian Savu, Anca Pantea Stoian, Alina Constantin, Bogdan Smeu, Catalin Copaescu, Mariana Carmen Chifiriuc, Elena Ionica, Constantin Ionescu-Tirgoviște. Evolution of Inflammatory and Oxidative Stress Markers in Romanian Obese Male Patients with Type 2 Diabetes Mellitus after Laparoscopic Sleeve Gastrectomy: One Year Follow-Up. *Metabolites*. 10(8):308-322, 2020. WOS:000564213900001. <https://doi.org/10.3390/metabo10080308>, Q2
5. Dinu M, Braic L, Padmanabhan SC, Morris MA, Titorencu I, Pruna V, Parau A, Romanchikova N, Petrik LF, Vladescu A. Characterization of electron beam deposited Nb2O5 coatings for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*. Volume 103, 2020, 103582. WOS:000517856400054. <https://doi.org/10.1016/j.jmbbm.2019.103582>, Q2
6. Vadana M, Cecoltan S, Ciortan L, Macarie RD, Tucureanu MM, Mihaila AC, Droc I, Butoi E, Manduteanu I. Molecular mechanisms involved in high glucose-induced valve calcification in a 3D valve model with human valvular cells. *J Cell Mol Med*. 2020; 24(11):6350-6361. <https://doi.org/10.1111/jcmm.15290>, Q2
7. Balatskyi, Volodymyr V., Oksana L. Palchevska, Lina Bortnichuk, Ana-Maria Gan, Anna Myronova, Larysa L. Macewicz, Viktor O. Navrulin et al. β -Catenin regulates cardiac energy metabolism in sedentary and trained mice. *Life*. 10, no. 12 (2020): 357. <https://doi.org/10.3390/life10120357>, Q2

8. Van Gool A, Corrales F, Čolović M, Krstić D, Oliver-Martos B, Martínez-Cáceres E, Jakasa I, Gajski G, Brun V, Kyriacou K, Burzynska-Pedziwiatr I, Wozniak LA, Nierkens S, Pascual García C, Katrik J, Bojic-Trbojevic Z, Vacek J, Llorente A, Antohe F, Suica V, Suarez G, t'Kindt R, Martin P, Penque D, Martins IL, Bodoki E, Jacob BC, Aydınoğlu E, Timur S, Allinson J, Sutton C, Luider T, Wittfooth S, Sammar M. Analytical techniques for multiplex analysis of protein biomarkers. *Expert Review of Proteomics*. Volume: 17 Issue: 4 Pages: 257-273 Published: APR 2 2020. WOS:000536384300001, <https://doi.org/10.1080/14789450.2020.1729569>, Q2
9. Elena Uyy, Viorel Iulian Șuică, Raluca Maria Boteanu, Florentina Safciuc, Aurel Cerveanu-Hogaș, Luminița Ivan, Crina Stavaru, Maya Simionescu, Felicia Antohe. Diabetic nephropathy associates with deregulation of enzymes involved in kidney sulphur metabolism. *Journal of Cellular and Molecular Medicine*. Volume: 24 Issue: 20 Pages: 12131-12140, Published: OCT, 2020., WOS:000569472600001, <https://doi.org/10.1111/jcmm.15827>, Q2

Lista articole indexate CNCS

1. Elena Georgiana Bernea, Felicia Antohe, Andrada Mihai, Iuliana Ceașu, Cristian Guja, Constantin Ionescu-Tîrgoviște, "Management of Gestational Diabetes-A Review of Current Literature", *Research & Science Today*, Issue 1, data publicării: 2020/3/1, ISSN: 2285-9632, <https://doi.org/10.38173/RST.2020.19.1.11:109-123>, indexata CNCS
2. Elena Georgiana Bernea, Andrada Mihai, Cristian Guja, Constantin Ionescu-Tîrgoviste, Felicia Antohe, Anca Pietrosel, "Biogenesis of Exosomes-A Review of Current Literature", *Research & Science Today*, Volume 20, Pages 39-45, data publicării: 2020, ISSN: 2285-9632, <https://doi.org/10.38173/RST.2020.S1.5:39-45>, indexata CNCS
3. Elena Georgiana Bernea, Andrada Mihai, Anca Pietrosel, Iuliana Ceașu, Felicia Antohe, Constantin Ionescu-Tîrgoviste, "Maternal and Fetal Complications of Gestational Diabetes-Review", *Research & Science Today*, Volume 20, Pages 55, data publicării: 2020, ISSN: 2285-9632, <https://doi.org/10.38173/RST.2020.S1.7:55-65>, indexata CNCS
4. Elena Georgiana Bernea, Felicia Antohe, Andrada Mihai, Iuliana Ceașu, Cristian Guja, Constantin Ionescu-Tîrgoviște, "The economics of gestational diabetes care. A global perspective. A review of current literature", *Proceedings of the Romanian Academy*, 22 (1), Pages 7-13, data publicării: 2020, ISSN: 1454-9069, indexata CNCS

Lista cererilor de brevete înregistrate și publicate 2020

1. Procedeu de obtinere a unor celule progenitoare endoteliale modificate genetic; Alexandru Filippi, Loredana Antonescu, Alina Constantin, Cristina Constantinescu, Nicoleta Alexandru, Adriana Georgescu; Numar cerere brevet: A 2020 00284

2021

Lista Articole ISI

1. Alexandra-Gela Lazar, Mihaela-Loredana Vlad, Adrian Manea, Maya Simionescu, Simona-Adriana Manea, "Activated histone acetyltransferase p300/CBP-related signalling pathways mediate up-regulation of NADPH oxidase, inflammation, and fibrosis in diabetic kidney", *Antioxidants*, vol. 10(9), 2021, WOS:000699320300001, <https://doi.org/10.3390/antiox10091356>, Q1
2. Adriana Georgescu, Maya Simionescu, "Extracellular Vesicles: Versatile nanomediators, potential biomarkers and therapeutic agents in atherosclerosis and COVID-19-related thrombosis", *International Journal of Molecular Sciences*, vol. 22(11), 2021, 5967-5994 pagini, WOS:000660234500001, <https://doi.org/10.3390/ijms22115967>, Q1

3. Lucia Doina Popov, "One step forward: extracellular mitochondria transplantation", *Cell and Tissue Research*, vol. 384(3), 2021, 607-612 pagini, WOS:000625026800001, <https://doi.org/10.1007/s00441-021-03412-0>, Q1
4. Natalia Simionescu, Radu Zonda, Anca-Roxana Petrovici, Adriana Georgescu, "The multifaceted role of extracellular vesicles in glioblastoma: microRNA nanocarriers for disease progression and gene therapy", *Pharmaceutics*, vol. 13(7), 2021, 988-1015 pagini, WOS:000676531700001, <https://doi.org/10.3390/pharmaceutics13070988>, Q1
5. Sanda GM, Stancu CS, Deleanu M, Toma L, Niculescu LS, Sima AV, "Aggregated LDL turn human macrophages into foam cells and induce mitochondrial dysfunction without triggering oxidative or endoplasmic reticulum stress", *PLoS One*, vol. 16(1), 2021, WOS:000613081500050, <https://doi.org/10.1371/journal.pone.0245797>, Q1
6. Toma L, Stancu CS, Sima AV, "Endothelial Dysfunction in Diabetes Is Aggravated by Glycated Lipoproteins; Novel Molecular Therapies", *Biomedicines*, vol. 9(1), 2021, WOS:000609845300001, <https://doi.org/10.3390/biomedicines9010018>, Q1
7. Toma L, Barbălată T, Sanda GM, Niculescu LS, Sima AV, Stancu CS, "CRISPR/dCas9 transcriptional activation of endogenous apolipoprotein ai and paraoxonase 1 in enterocytes alleviates endothelial cell dysfunction", *Biomolecules*, vol. 11(12), 2021, WOS:000736055200001, <https://doi.org/10.3390/biom11121769>, Q1
8. Marinescu CI, Preda MB, Neculachi CA, Rusu EG, Popescu S, Burlacu A, "Identification of a Hematopoietic Cell Population Emerging From Mouse Bone Marrow With Proliferative Potential In Vitro and Immunomodulatory Capacity", *Front Immunol*, vol. 12, 2021, WOS:000685498600001, <https://doi.org/10.3389/fimmu.2021.698070>, Q1
9. Lupan AM, Rusu EG, Preda MB, Marinescu CI, Ivan C, Burlacu A, "miRNAs generated from Meg3-Mirg locus are downregulated during aging", *Aging (Albany NY)*, vol. 13(12), 2021, 15875-15897, pagini, WOS:000669027700010, <https://doi.org/10.18632/aging.203208>, Q1
10. Marinescu CI, Preda MB, Burlacu A, "A procedure for in vitro evaluation of the immunosuppressive effect of mouse mesenchymal stem cells on activated T cell proliferation", *Stem Cell Res Ther*, vol. 12(1), 2021, WOS:000660893900001, <https://doi.org/10.1186/s13287-021-02344-3>, Q1
11. Preda MB, Neculachi CA, Fenyo IM, Vacaru AM, Publik MA, Simionescu M, Burlacu A, "Short lifespan of syngeneic transplanted MSC is a consequence of in vivo apoptosis and immune cell recruitment in mice", *Cell Death Dis*, vol. 12(6), 2021, WOS:000656916900001, <https://doi.org/10.1038/s41419-021-03839-w>, Q1
12. Popescu S, Preda MB, Marinescu CI, Simionescu M, Burlacu A, "Dual Stem Cell Therapy Improves the Myocardial Recovery Post-Infarction through Reciprocal Modulation of Cell Functions", *Int J Mol Sci*, vol. 22(11), 2021, WOS:000660171500001, <https://doi.org/10.3390/ijms22115631>, Q1
13. Tutuianu R, Rosca AM, Iacomini DM, Simionescu M, Titorencu I, "Human Mesenchymal Stromal Cell-Derived Exosomes Promote In Vitro Wound Healing by Modulating the Biological Properties of Skin Keratinocytes and Fibroblasts and Stimulating Angiogenesis", *International journal of molecular sciences*, vol. 22(12), 2021, WOS:000666701200001, <https://doi.org/10.3390/ijms22126239>, Q1
14. Dumitrescu M, Vacaru AM, Trusca VG, Fenyo IM, Ionita R, Gafencu AV, "K2 Transfection System Boosts the Adenoviral Transduction of Murine Mesenchymal Stromal Cells", *Int J Mol Sci*, vol. 22(2), 2021, WOS:000611301600001, <https://doi.org/10.3390/ijms22020598>, Q1
15. Mihaila AC, Ciortan L, Macarie RD, Vadana M, Cecoltan S, Preda MB, Hudita A, Gan AM, Tucureanu MM, Simionescu M, Schiopu A, Butoi E, "Transcriptional profiling and functional analysis of N1/N2 neutrophils reveal an immunomodulatory effect of S100A9-blockade on the pro-inflammatory N1", *Front. Immunol.*, vol. 12, 2021, WOS:000687438800001, <https://doi.org/10.3389/fimmu.2021.708770>, Q1
16. Cecoltan S, Ciortan L, Macarie RD, Vadana M, Mihaila AC, Tucureanu MM, Vlad ML, Droc I, Gherghiceanu M, Simionescu A, Simionescu DT, Butoi E, Manduteanu I, "High glucose induced

- changes in human VEC phenotype in a 3D hydrogel derived from cell-free native aortic root", *Front Cardiovasc Med*, vol. 8, 2021, WOS:000684939400001, <https://doi.org/10.3389/fcvm.2021.714573>, Q1
17. Popescu I, Turtoi M, Suflet DM, Dinu MV, Darie-Nita RN, Anghelache M, Calin M, Constantin M, "Alginate/poloxamer hydrogel obtained by thiol-acrylate photopolymerization for the alleviation of the inflammatory response of human keratinocytes", *Int J Biol Macromol*, vol. 180, 2021, 418-431 pagini, WOS:000649640400005, <https://doi.org/10.1016/j.ijbiomac.2021.03.082>, Q1
 18. Mocanu CA, Fuior EV, Voicu G, Rebleanu D, Safciuc F, Deleanu M, Fenyo IM, Virginie Escriptou V, Manduteanu I, Simionescu M, Calin M, "P-selectin targeted RAGE-shRNA lipoplexes alleviate atherosclerosis-associated inflammation", *J Control Rel*, vol. 338, 2021, 754-772, pagini, WOS:000702826900005, <https://doi.org/10.1016/j.jconrel.2021.09.012>, Q1
 19. Popescu I, Lupei M, Constantin M, Voicu G, Calin M, Prisacaru AI, Fundueanu G, "Double cross-linked pectin beads stable in physiological environment as potential support for biomedical applications", *Journal of Polymer Research*, vol. 28, 2021, WOS:000707349100002, <https://doi.org/10.1007/s10965-021-02785-9>, Q1
 20. Anghelache M, Turtoi M, Petrovici AR, Fifere A, Pinteala M, Calin M, "Development of Dextran-Coated Magnetic Nanoparticles Loaded with Protocatechuic Acid for Vascular Inflammation Therapy", *Pharmaceutics*, vol. 13, 2021, WOS:000701419300001, <https://doi.org/10.3390/pharmaceutics13091414>, Q1
 21. Turtoi M, Anghelache M, Bucatariu SM, Deleanu M, Voicu G, Safciuc F, Manduteanu I, Fundueanu G, Simionescu M, Calin M, "A novel platform for drug testing: Biomimetic three-dimensional hyaluronic acid-based scaffold seeded with human hepatocarcinoma cells", *Int J Biol Macromol*, vol. 185, 2021, 604-619 pagini, WOS:000680006900009, <https://doi.org/10.1016/j.ijbiomac.2021.06.174>, Q1
 22. Turtoi M, Anghelache M, Patrascu AA, Maxim C, Manduteanu I, Calin M, Popescu DL, "Synthesis, Characterization, and In Vitro Insulin-Mimetic Activity Evaluation of Valine Schiff Base Coordination Compounds of Oxidovanadium(V)", *Biomedicines*, vol. 9(5), 2021, WOS:000653419600001, <https://doi.org/10.3390/biomedicines9050562>, Q1
 23. Lenghel A, Gheorghita AM, Vacaru AM, Vacaru AM, "What Is the Sweetest UPR Flavor for the β -cell? That Is the Question", *Frontiers in Endocrinology*, vol. 11, 2021, WOS:000613511500001, <https://doi.org/10.3389/fendo.2020.614123>, Q1
 24. Simona-Adriana Manea, Mihaela-Loredana Vlad, Daniela Rebleanu, Alexandra-Gela Lazar, Ioana Madalina Fenyo, Manuela Calin, Maya Simionescu, Adrian Manea. Detection of vascular reactive oxygen species in experimental atherosclerosis by high-resolution near-infrared fluorescence imaging using VCAM-1-targeted liposomes entrapping a fluorogenic redox-sensitive probe. *Oxidative Medicine and Cellular Longevity*. 2021; 2021:6685612. Factor de impact: 7.31. <https://doi.org/10.1155/2021/6685612>, Q2
 25. Micheu, M. M., Rosca, A. M. Patient-specific induced pluripotent stem cells as "disease-in-a-dish" models for inherited cardiomyopathies and channelopathies - 15 years of research. *World, journal, of, stem, cells.*, 13(4), 281–303, 2021., WOS:000645615600003. <https://doi.org/10.4252/wjsc.v13.i4.281>, Q2
 26. Dumitrescu M, Trusca VG, Fenyo IM, Gafencu AV. An Efficient Method for Adenovirus Production., *J, Vis, Exp.*, 2021, Jun, 10;(172)., WOS:000682821800002. <https://doi.org/10.3791/61691>, Q2
 27. Manduteanu I, Simionescu D, Simionescu A, Simionescu M. Aortic valve disease in diabetes: Molecular mechanisms and novel therapies. *J Cell Mol Med*. 2021 Oct;25(20):9483-9495. <https://doi.org/10.1111/jcmm.16861>, Q2
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