

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	Lucrări la care participă doctoranzi	Lucrări la care participă doctoranzi si conducători de doctorat
2020	28	4	4	1	36		
2021	31	0	0	3	31		
2022	31	3	0	3	34		
2023	18	2	1	3	21		
2024	34	0	0	0	24	...	...
2025	44	2	1	2	47	...	...
01.01-28.06.2026	21	0	0	0	21	...	...
Total 2020–2026	99	2	1	2	102	...	...

În listă s-au evidențiat: autorii cu afiliere la IBPC NS (**bold**); doctoranzii IBPC NS în perioada 2020–2026; conducătorii de doctorat din cadrul IBPC NS **asociați doctoranzilor coautori**.

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
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- 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, Tureanu 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

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- 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. Vişan AI, Popescu-Pelin G, Gherasim O, Mihăilescu A, Socol M, Zgura I, Chiriţoiu M, Sima LE, Antohe F, Ivan L, Vrânceanu DM, Cotruţ 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
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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-Tirgoviste. 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
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6. Vadana M, Cecoltan S, Ciortan L, Macarie RD, Tucureanu MM, Mihaila AC, Droc I, Butoi E,

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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, Katrlík 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, Iacob BC, Aydindogan 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

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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-Tirgoviste, 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-Tirgoviste, "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

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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
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 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
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 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
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 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
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 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
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 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
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 24. Simona-Adriana Manca, Mihaela-Loredana Vlad, Daniela Rebleanu, Alexandra-Gela Lazar, Ioana Madalina Fenyo, Manuela Calin, Maya Simionescu, Adrian Manca. 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
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