

Conf. Dr. Sorina Dinescu

LISTA lucrărilor științifice

A. Teza de doctorat

Teza de doctorat: „Mecanisme celulare și moleculare ale diferentierii celulelor stem izolate din țesut adipos”, conducător doctorat Prof. Dr. Marieta Costache

B. Cărți și capitole în cărți publicate în ultimii 10 ani

1. Hermenean A., Dinescu S., Ionita M., Iovu H., Costache M, *The Impact of graphene oxides on bone regeneration therapies, in Advanced Techniques in Bone regeneration.*2016. InTech ISBN 978-953-51-2539-6.
2. Dinescu S., Hermenean A., Costache M. *Human adipose-derived stem cells for tissue engineering approaches- current challenges and perspectives, in Stem Cells in Clinical Practice and Tissue Engineering.* 2017. InTechOpen, 293-314. ISBN 978-953-51-5415-0.
3. Dinescu S., Albu Kaya M., Chitoiu L., Ignat S., Kaya DA, Costache M. *Collagen-Based Hydrogels and Their Applications for Tissue Engineering and Regenerative Medicine, in Cellulose-Based Superabsorbent Hydrogels.* 2018. Springer International Publishing, 1-21. ISBN 978-3-319-76573-0.
4. Selaru A., Dinescu S., Costache M. *The Cellular and Molecular Patterns Involved in the Neural Differentiation of Adipose-Derived Stem Cells in Advances in Experimental Medicine and Biology.*2020. Springer Nature Switzerland AG, 1-19;
5. Dinescu S., Dobranici A., Tecucianu R., Selaru A., Balahura R., Ignat S., Costache M. *Exosomes as Part of the Human Adipose-Derived Stem Cells Secretome- Opening New Perspectives for Cell-Free Regenerative Applications. In: Advances in Experimental Medicine and Biology.* 2020. Springer, 139-163.
6. Balahura (Stamat) LR., Lazar AD., Dinescu S., Costache M. *Tumor Microenvironment Complexity: A Pathological Milieu that Innately Modulates Cancer Progression. In: Handbook of Cancer and Immunology.* 2022. Springer. ISBN: 978-3-030-80962-1.
7. Samoila I., Selaru A., Nazarie (Ignat) S., Costache M., Dinescu S. *Regulatory non-coding RNAs- biogenesis, mechanisms of action and role in gene expression regulation. Chapter 2 in: Navigating Non-Coding RNA.* 2023. Academic Press, 47-88. ISBN 9780323904063.
8. Ray R.M., Lazar A., Balahura (Stamat) L.R., Mocanu-Dobranici A.E., Costache M., Dinescu S. *Therapeutic targeting non-coding RNAs. Chapter 9 in: Navigating Non-Coding RNA.* 2023. Academic Press, 349-417. ISBN 9780323904063.

C. Lucrări indexate ISI/BDI publicate în ultimii 10 ani

1. Ionita M., Crica L.E., Tiainen H., Haugen H.J., Vasile E., Dinescu S., Costache M., Iovu H. 2016. *Gelatin-poly(vinyl alcohol) porous biocomposites reinforced with graphene oxide as biomaterials, Journal of Materials Chemistry B, Royal Society of Chemistry, 4, 282-291 [ISI 4.543].*
2. Folk A., Cotoraci C., Balta C., Suciuc M., Herman H., Boldura O.M., Dinescu S., Paiusan L., Ardelean A., Hermenean A. 2016. *Evaluation of Hepatotoxicity with Treatment Doses of Flucytosine and Amphotericin B for Invasive Fungal Infections, BioMed Research International, article ID 986509 [IF 2.476].*

3. Balta C., Herman H., Rosu M., Ivan A., Dinescu S., Costache M., Folk A., Hermenean A. 2016. *Homeostasis of blood parameters and inflammatory markers analysis during bone defect healing after scaffolds implantation in mice calvaria defects*, *Romanian Biotechnological Letters*, 22(6):12018-12025. [ISI 0.396].
4. Galateanu B., Golgovici F., Hudita A., Stan M., Dinescu S., Costache M., Demetrescu I., Popescu A. 2016. *About electrochemical stability and biocompatibility of 2 two types of CoCr commercial dental alloys*, *Materials and Corrosion (Wiley)*, 67(10): 1096-1104 [IF 1.26].
5. Ionita M., Crica L.E., Vasile E., Dinescu S., Pandelescu M., Costache M., Haugen H.J., Iovu H. 2016. *Effect of carboxylic acid functionalized graphene on physical-chemical and biological performances of polysulfone porous films*, *Polymer (Elsevier)*, 92:1-12. [ISI 3.684].
6. Zaulet M., Kevorkian S.E.M., Dinescu S., Suciuc M., Herman H., Buburuzan L., Badulescu L., Ardelean A., Hermenean A. 2017. *Protective effects of silymarin against bisphenol A-induced hepatotoxicity in mouse liver*, *Experimental and Therapeutic Medicine*, 13(3): 821-828. [ISI 1.41].
7. Dinescu S., Ignat S., Predoiu L., Hermenean A., Ionita M., Mladenov M., Costache M. 2017. *Graphene oxide improves chitosan-based biomaterials with applications in bone tissue engineering*, *Romanian Biotechnological Letters*, 22(6):13108-13115. [ISI 0.321]
8. Hermenean A., Codreanu A., Herman H., Balta C., Rosu M., Mihali CV, Ivan A., Dinescu S., Ionita M., Costache M. 2017. *Chitosan-Graphene Oxide 3D scaffolds as Promising Tools for Bone Regeneration in Critical-Size Mouse Calvarial Defects*. *Scientific Reports*.7(1):16641. [ISI 4.122].
9. Ionita M., Crica L.E., Voicu S.I., Dinescu S., Miculescu F., Costache M., Iovu H. 2018. *Synergistic effect of carbon nanotubes and graphene for high performance cellulose acetate membranes in biomedical applications*, *Carbohydrate Polymers*, 183, 50-61. [ISI 6,044].
10. Buzarovska A., Dinescu S., Chitoiu L., Costache M. 2018. *Porous poly(l-lactic acid) nanocomposite scaffolds with functionalized TiO₂ nanoparticles: properties, cytocompatibility and drug release capability*, *Journal of Materials Science*, 53 (16), 11151-11166. [ISI 3,442]
11. Simion TV, Dinescu S., Jianu D., Costache M. 2018. *Correlation between the composition and effects of platelet rich plasma in tissue regeneration applications*, *Romanian Biotechnological Letters*, 23 (4), 13771-13784. [ISI 0.590]
12. Dinescu S., Ignat S., Simion TV., Selaru A., Samoila I., Jianu D., Costache M. 2018. *Multiple benefits of platelet-rich plasma for regenerative medicine therapies*, *Romanian Biotechnological Letters*, 23(5), 13933-13939. [ISI 0.590].
13. Selaru A., Samoila I., Dinescu S., Costache M. 2018. *An overview on osteogenic differentiation process: Minimum essential information for bone tissue engineering*, *Rev. Biol. Biomed. Sci.*, 1 (1) 1-9. [BDI]
14. Lazar A., Dinescu S. Costache M. 2018. *Adipose tissue engineering and adipogenesis – a review*, *Rev. Biol. Biomed. Sci.*, 1 (1) 17-26. [BDI]
15. Dinescu S., Ignat S., Lazar A., Marin S., Danilă E., Marin M., Udeanu D. I., Ghica M. V., Albu-Kaya M., Costache M. 2019. *Efficiency of multiparticulate delivery systems loaded with flufenamic acid designed for burn wound healing applications*, *Journal of Immunology Research*, article ID 4513108; [ISI 3.327].
16. Dinescu S., Ignat S., Lazar A., Constantin C., Neagu M., Costache M. 2019. *Epitranscriptomic signatures in lncRNAs and their possible roles in cancer*, *Genes*, 10(1):52. [ISI 3.759].
17. Florescu IE, Burcea A., Popa GO., Dudu A., Georgescu SE., Balas M., Dinescu S., Voicu S., Grecu I., Dediu L., Dinischiotu A., Costache M. 2019. *Effects of starvation and refeeding on growth performance and stress defense mechanisms of stellate sturgeon *Acipenser stellatus* juveniles from aquaculture*, *Acta Biochimica Polonica*, 66(1), 47-59. [ISI 1,420].
18. Hadzi-Petrushev N., Gjorgievska E., Gabric D., Dinescu S., Mitrokhin V., Mladenov M. 2019. *Circulatory leukotriene changes during bone healing following osteotomies prepared with Er: YAG laser and piezosurgery: an animal study*, *Biotechnology & Biotechnological Equipment (Taylor and Francis)*, 1-6. [ISI 1,186].

19. Bužarovska A., Dinescu S., Lazar AD., Serban M., Pircalabioru G., Costache M., Gualandi C., Avérous L. 2019. *Nanocomposite foams based on flexible biobased thermoplastic polyurethane and ZnO nanoparticles as potential wound dressing materials*, *Materials Science & Engineering C-Materials for Biological Applications(Elsevier)*, 104, 109893. [ISI 5,880].
20. Ignat, S.-R.; Lazăr, A.D.; Şelaru, A.; Samoilă, I.; Vlăsceanu, G.M.; Ioniță, M.; Radu, E.; Dinescu, S.; Costache, M. 2019. *Versatile Biomaterial Platform Enriched with Graphene Oxide and Carbon Nanotubes for Multiple Tissue Engineering Applications*. *International Journal of Molecular Sciences*, 20(16), 3868. [ISI 4.556]
21. Şelaru, A.; Drăguşin, D.-M.; Olăreţ, E.; Serafim, A.; Steinmüller-Nethl, D.; Vasile, E.; Iovu, H.; Stancu, I.-C.; Costache, M.; Dinescu, S. 2019. *Fabrication and Biocompatibility Evaluation of Nanodiamonds-Gelatin Electrospun Materials Designed for Prospective Tissue Regeneration Applications*, *Materials*, 12(18), 2933. [ISI 3,057].
22. Serbezeanu, D.; Vlad-Bubulac, T.; Rusu, D.; Grădişteanu Pircalabioru, G.; Samoilă, I.; Dinescu, S.; Aflori, M. 2019. *Functional Polyimide-Based Electrospun Fibers for Biomedical Application*. *Materials*, 12(19), 3201. [ISI 3,057].
23. Samoila, I.; Dinescu, S.; Pircalabioru, G.G.; Marutescu, L.; Fundueanu, G.; Aflori, M.; Constantin, M. 2019. *Pullulan/Poly(Vinyl Alcohol) Composite Hydrogels for Adipose Tissue Engineering*. *Materials*, 12(19), 3220. [ISI 3,057].
24. Dinescu S., Ionita M., Ignat S., Costache M., Hermenean A. 2019. *Graphene oxide enhances chitosan-based 3D scaffold properties for bone tissue engineering*. *International Journal of Molecular Sciences*, 20(20), 5077. [ISI 4.556].
25. Neagu M., Constantin C., Bostan M., Caruntu C., Ignat S.R., Dinescu S., Costache M. 2019. *Proteomic Technology “Lens” for Epithelial-Mesenchymal Transition Process Identification in Oncology*. *Analytical Cellular Pathology*, vol. 2019, article ID 3565970, 1-17. [ISI 2,052].
26. Vasile E., Pandele A., Andronescu C., Selaru A., Dinescu S., Costache M., Hanganu A., Raicopol M., Teodorescu M. 2019. *HEMA-functionalized graphene oxide: a versatile nanofiller for poly(propylene fumarate)-based hybrid materials*, *Scientific Reports*, 9(1), 1-15. [ISI 3.998].
27. Dobre G., Dinescu S., Costache M. 2019. *Telomeres and telomere dysfunctions*, *Rev. Biol. Biomed. Sci.*, 2(1), 19-28. [BDI]
28. Hudita A., Galateanu B., Dinescu S., Costache M., Dinischiotu A., Negrei C., Stan M., Tsatsakis A., Nikitovic D., Lupuliasa D., Balanescu A. 2020. *In Vitro Effects of Cetylated Fatty Acids Mixture from Celadrin on Chondrogenesis and Inflammation with Impact on Osteoarthritis, Cartilage (SAGE Publications)*; 11(1):88-97. [ISI 4,634].
29. Ghiţulică CD., Cucuruz A., Voicu G., Cucuruz AT., Dinescu S., Selaru A., Costache M. 2020. *Ceramics based on calcium phosphates substituted with magnesium ions for bone regeneration*, *International Journal of Applied Ceramic Technology*, 17 (1), 342-353. [ISI 1.968].
30. Lazar A.D., Dinescu S., Albu-Kaya M., Gharbia S., Hermenean A., Costache M. 2020. *Release of the Non-Steroid Anti-Inflammatory Drug Flufenamic Acid by Multiparticulate Delivery Systems Promotes Adipogenic Differentiation of Adipose-Derived Stem Cells*. *Materials*, 13(7), 1550. [ISI 3,623].
31. Ignat S.R., Dinescu S., Hermenean A., Costache M. 2020. *Cellular interplay as a consequence of inflammatory signals leading to liver fibrosis development*. *Cells*, 9(2), 461. [ISI 6.600].
32. Samoila I., Dinescu S., Costache M. 2020. *Interplay between Cellular and Molecular Mechanisms Underlying Inflammatory Bowel Diseases Development- A Focus on Ulcerative Colitis*, *Cells*, 9(7), 1647. [ISI 6.600].
33. Lazăr A.D., Dinescu S., Costache M. 2020. *Deciphering the Molecular Landscape of Cutaneous Squamous Cell Carcinoma for Better Diagnosis and Treatment*. *Journal of Clinical Medicine*, 9(7), 2228. [ISI 4,241].
34. Vlăsceanu G.M., Selaru A., Dinescu S., Balta C., Herman H., Gharbia S., Hermenean A., Ionita M., Costache M. 2020. *Comprehensive Appraisal of graphene-oxide ratio in porous biopolymer hybrids targeting bone tissue regeneration*, *Nanomaterials*, 10(8), 1444. [ISI 5,076].
35. Fenyvesi, F., Nguyen, T.L.P., Haimhoffer, Á., Ruzsnyák, Á., Vasvári, G., Bácskay, I., Vecsernyés, M., Ignat, S.-R.; Dinescu, S., Costache, M., Ciceu, A., Hermenean, A., Váradi, J.

2020. *Cyclodextrin Complexation Improves the Solubility and Caco-2 Permeability of Chrysin. Materials*, 13, 3618. [ISI 3,623].
36. Balahura R., Selaru A., Dinescu S., Costache M. 2020. *Inflammation and Inflammasomes: Pros and Cons in Tumorigenesis, Journal of Immunology Research*, Volume 2020, Article ID 2549763, 1-15. [ISI 4,818].
37. Dobre, E.G.; Dinescu, S.; Costache, M. 2020. *Connecting the Missing Dots: ncRNAs as Critical Regulators of Therapeutic Susceptibility in Breast Cancer. Cancers*, 12(9), 2698. [ISI 6,639].
38. Ignat, S.R.; Dinescu, S.; Váradi, J.; Fenyvesi, F.; Nguyen, T.L.P.; Ciceu, A.; Hermenean, A.; Costache, M. 2020. *Complexation with Random Methyl- β -Cyclodextrin and (2-Hydroxypropyl)- β -Cyclodextrin Promotes Chrysin Effect and Potential for Liver Fibrosis Therapy. Materials*, 13, 5003. [ISI 3,623].
39. Chitoiu, L.; Dobranici, A.; Gherghiceanu, M.; Dinescu, S.; Costache, M. 2020. *Multi-Omics Data Integration in Extracellular Vesicle Biology- Utopia or Future Reality? International Journal of Molecular Sciences*, 21, 8550. [ISI 5,924].
40. Lazăr A.D., Dinescu S., Costache M. 2020. *Non-coding landscape of cutaneous malignant melanoma: A possible route to efficient targeted therapy. Cancers*, 12(11), 3378. [ISI 6,639].
41. Balahura L.R., Dinescu S., Costache M. 2020. *The interconnection between the inflammasome and breast cancer, Rev. Biol. Biomed. Sci*, 3(1), 43-54.
42. Lungu A., Cernencu A.I., Dinescu S., Balahura R., Mereuta P., Costache M., Syverud K., Stancu I.C., Iovu H. 2021. *Nanocellulose-enriched hydrocolloid-based hydrogels. Designed using a Ca²⁺ free strategy based on citric acid, Materials & Design (Elsevier)*, 197: 109200, [ISI 7,991].
43. Petre A., Balta C., Herman H., Gharbia S., Codreanu A., Onita B., Anghel-Zurbau N., Hermenean A., Ignat S., Dinescu S., Urzica I., Drafta S., Oancea L., Hermenean A. 2021. *A novel experimental approach to evaluate guided bone regeneration (GBR) in the rat femur using a 3D-printed CAD/CAM zirconia space-maintaining barrier, Journal of Advanced Research*, 28:221-229. [ISI 10,479].
44. Olăreș E., Drăgușin D-M., Serafim A., Lungu A., Șelaru A., Dobranici A., Dinescu S., Costache M., Boerașu I., Vasile B.Ș., Steinmüller-Nethl D., Iovu H., Stancu I-C. 2021. *Electrospinning Fabrication and Cytocompatibility Investigation of Nanodiamond Particles-Gelatin Fibrous Tubular Scaffolds for Nerve Regeneration. Polymers*; 13(3):407. [ISI 4,329].
45. Ciceu A., Balta C., Herman H., Gharbia S., Ignat S-R., Dinescu S., Váradi J., Fenyvesi F., Gyöngyösi S., Hermenean A., Costache M. 2021. *Complexation with Random Methyl- β -cyclodextrin and (2-Hydroxypropyl)- β -cyclodextrin Enhances In Vivo Anti-Fibrotic and Anti-Inflammatory Effects of Chrysin via the Inhibition of NF- κ B and TGF- β 1/Smad Signaling Pathways and Modulation of Hepatic Pro/Anti-Fibrotic miRNA. International Journal of Molecular Sciences*; 22(4):1869. [ISI 5,924].
46. Ocando C., Dinescu S., Samoila I., Ghitulica C.D., Cucuruz A., Costache M., Averous L. 2021. *Fabrication and properties of alginate-hydroxyapatite biocomposites as efficient biomaterials for bone regeneration. European Polymer Journal*; 151: 110444. [ISI 4,598].
47. Bužarovska A., Blazevska-Gilev J., Pérez-Martnez B.T., Balahura L.R., Gradisteanu G., Dinescu S., Costache M. 2021. *Poly(l-lactic acid)/alkali lignin composites: properties, biocompatibility, cytotoxicity and antimicrobial behavior. Journal of Materials Science*; 56, 13785–13800. [ISI 4,220].
48. Stavarache CE, Ghebaur A, Dinescu S, Samoilă I, Vasile E, Vlasceanu GM, Iovu H, Gârea SA. 2021. *5-Aminosalicylic Acid Loaded Chitosan-Carrageenan Hydrogel Beads with Potential Application for the Treatment of Inflammatory Bowel Disease. Polymers*; 13(15):2463. [ISI 4,329]
49. Balahura L-R, Dinescu S, Balaș M, Cernencu A, Lungu A, Vlăsceanu GM, Iovu H, Costache M. 2021. *Cellulose Nanofiber-Based Hydrogels Embedding 5-FU Promote Pyroptosis Activation in Breast Cancer Cells and Support Human Adipose-Derived Stem Cell Proliferation, Opening New Perspectives for Breast Tissue Engineering. Pharmaceutics*; 13(8):1189. [ISI 6,321].

50. Cernencu AI, Lungu A, Dragusin DM, Stancu IC, Dinescu S, Balahura LR, Mereuta P, Costache M, Iovu H. 2021. *3D Bioprinting of Biosynthetic Nanocellulose-Filled GelMA Inks Highly Reliable for Soft Tissue-Oriented Constructs*. *Materials*.; 14(17):4891. [ISI 3,623].
51. Şelaru A., Costache M., Dinescu S. 2021. *Epitranscriptomic signatures in stem cell differentiation to the neuronal lineage*, *RNA Biology*; 18:sup1, 51-60. [ISI 4,652].
52. Nazarie S-R., Gharbia S., Hermenean A., Dinescu S., Costache M. 2021. *Regenerative Potential of Mesenchymal Stem Cells' (MSCs) Secretome for Liver Fibrosis Therapies*. *International Journal of Molecular Sciences*; 22(24):13292. [ISI 5,924].
53. Wendels S., Balahura R., Dinescu S., Costache M., Averous L. 2021. *Influence of the Macromolecular Architecture on the Properties of Biobased Polyurethane Tissue Adhesives*, *European Polymer Journal*; 110968. [ISI 4,598].
54. Dobranici A.E., Dinescu S., Costache M. 2021. *Neural stem cells-from quiescence to differentiation and potential clinical uses*, *Rev. Biol. Biomed. Sci.*, 4(1), 23-41. [BDI]
55. Sleiman L., Lazar A., Dinescu S., Costache M. 2021. *Extracellular vesicles – biogenesis and role in cancer treatment*, *Rev. Biol. Biomed. Sci.*, 4(1), 69-77. [BDI]
56. Şelaru A., Herman H., Vlăsceanu G.M., Dinescu S., Gharbia S., Baltă C., Roşu M., Mihali C.V., Ioniţă M., Serafim A., Iovu H., Hermenean A., Costache M. 2022. *Graphene–Oxide Porous Biopolymer Hybrids Enhance In Vitro Osteogenic Differentiation and Promote Ectopic Osteogenesis In Vivo*. *International Journal of Molecular Sciences*.; 23(1):491. [ISI 5,924].
57. Şerban MV, Nazarie S-R, Dinescu S, Radu I-C, Zaharia C, Istrătoiu E-A, Tănasă E, Herman H, Gharbia S, Baltă C, Hermenean A, Costache M. 2022. *Silk Proteins Enriched Nanocomposite Hydrogels Based on Modified MMT Clay and Poly (2-hydroxyethyl methacrylate-co-2-acrylamido-2-methylpropane Sulfonic Acid) Display Favorable Properties for Soft Tissue Engineering*. *Nanomaterials*.; 12(3):503. [ISI 5,076].
58. Leu Alexa R, Cucuruz A, Ghiţulică C-D, Voicu G, Stamat L-R, Dinescu S, Vlasceanu GM, Stavarache C, Ianchis R, Iovu H, Costache M. 2022. *3D Printable Composite Biomaterials Based on GelMA and Hydroxyapatite Powders Doped with Cerium Ions for Bone Tissue Regeneration*. *International Journal of Molecular Sciences*.; 23(3):1841. [ISI 5,924].
59. Leu Alexa R, Cucuruz A, Ghiţulică C-D, Voicu G, Stamat L-R, Dinescu S, Vlasceanu GM, Iovu H, Serafim A, Ianchis R, Ciocan L-T, Costache M. 2022. *3D Printed Composite Scaffolds of GelMA and Hydroxyapatite Nanopowders Doped with Mg/Zn Ions to Evaluate the Expression of Genes and Proteins of Osteogenic Markers*. *Nanomaterials*. 12(19):3420. [ISI 5,3]
60. Gharbia S, Nazarie S-R, Dinescu S, Balta C, Herman H, Peteu VE, Gherghiceanu M, Hermenean A, Costache M. 2022. *Adipose-Derived Stem Cells (ADSCs) Supplemented with Hepatocyte Growth Factor (HGF) Attenuate Hepatic Stellate Cell Activation and Liver Fibrosis by Inhibiting the TGF- β /Smad Signaling Pathway in Chemical-Induced Liver Fibrosis Associated with Diabetes*. *Cells*. 11(21):3338 [ISI 6,0]
61. Curti F, Serafim A, Olaret E, Dinescu S, Samoila I, Vasile BS, Iovu H, Lungu A, Stancu IC, Marinescu R. 2022. *Development of Biocomposite Alginate-Cuttlebone-Gelatin 3D Printing Inks Designed for Scaffolds with Bone Regeneration Potential*. *Marine Drugs*. 20(11):670, [ISI 5,4]
62. Wendels S., Balahura R., Dinescu S., Costache M., Averous L. 2022. *Synthesis and properties of biobased polyurethane tissue adhesives from bacterial polyester*. *Sustainable Materials and Technologies*, 34:e00515 [ISI 9,6]
63. Cernencu AI, Dinu AI, Dinescu S, Truşcă R, Istodorescu M, Lungu A, Stancu IC, Iovu H. 2022. *Inorganic/Biopolymers Hybrid Hydrogels Dual Cross-Linked for Bone Tissue Regeneration*. *Gels*. 8(12):762. [ISI 4,6]
64. Şelaru A, Mocanu-Dobranici A-E, Olăreţ E, Ginghină R-E, Stancu I-C, Costache M, Dinescu S. 2023. *Gelatin Meshes Enriched with Graphene Oxide and Magnetic Nanoparticles Support and Enhance the Proliferation and Neuronal Differentiation of Human Adipose-Derived Stem Cells*. *International Journal of Molecular Sciences*. 24(1):555. [ISI 4.9]
65. Mocanu-Dobranici A-E, Costache M, Dinescu S. 2023. *Insights into the Molecular Mechanisms Regulating Cell Behavior in Response to Magnetic Materials and Magnetic Stimulation in Stem*

- Cell (Neurogenic) Differentiation. International Journal of Molecular Sciences.*; 24(3):2028. [ISI 4.9].
66. Balahura (Stămat) L-R, Dinescu S, Costache M. 2023. *Regulation of Inflammasome by microRNAs in Triple-Negative Breast Cancer: New Opportunities for Therapy. International Journal of Molecular Sciences.* 24(4):3245. [ISI 4.9]
 67. Lazăr AD, Dinescu S, Sleiman L, Dumitru AV, Costache M, Costache M. 2023. *Comparative Expression Profiling Reveals Molecular Markers Involved in the Progression of Cutaneous Melanoma towards Metastasis. International Journal of Molecular Sciences.*; 24(7):6565. [ISI 4.9]
 68. Sougrati L., Wendels S., Dinescu S., Balahura (Stamat) L.R., Sleiman L., Averous L. 2023. *Renewable adhesives based on oleo-chemistry: From green synthesis to biomedical applications. Sustainable Materials and Technologies,* 37, e00656, [ISI 8,6].
 69. Pandele A.M., Selaru A., Dinescu S., Costache M., Vasile E., Dascalu C., Raicopol M., Teodorescu M. 2023. *Synthesis and evaluation of poly(propylene fumarate)-grafted graphene oxide as nanofiller for porous scaffolds. Journal of Materials Chemistry B,* [ISI 6.1].
 70. Gheorghe R-O., Grosu AV., Magercu M., Ghenghea M-S., Zbarcea CE., Tanase A., Negres S., Filippi A., Chiritoiu G., Gherghiceanu M., Dinescu S., Gaina G., Sapunar D., Ristoiu V. 2023. *Switching Rat Resident Macrophages from M1 to M2 Phenotype by Iba1 Silencing Has Analgesic Effects in SNL-Induced Neuropathic Pain. International Journal of Molecular Sciences.*; 24(21):15831. [ISI 4.9].
 71. Buzarovska A., Selaru A., Serban M., Pircalabioru G., Costache M., Cocca M., Gentile G., Averous L., Dinescu S. 2023. *Biobased multiphase foams with ZnO for wound dressing applications. Journal of Materials Science (Springer),* 58(46):17594-17609, [ISI 3,5]
 72. Olaret E., Dinescu S., Dobranici A-E., Ginghina R-E., Voicu G., Mihailescu M., Curti F., Banciu D., Sava B., Amarie S., Lungu A., Stancu I-C. 2024. *Osteoblast responsive biosilica-enriched gelatin microfibrillar microenvironments. Biomaterials Advances,* 161: 213894 [ISI 5.5].
 73. Sleiman L, Lazăr A-D, Albu-Kaya M, Marin MM, Kaya DA, Vasile O-R, Dinescu S. 2024. *Development and Investigation of an Innovative 3D Biohybrid Based on Collagen and Silk Sericin Enriched with Flavonoids for Potential Wound Healing Applications. Polymers;* 16(12):1627. [ISI 4,7]
 74. Csorba AB., Dinescu S., Pircalabioru GG., Fora CG., Balint J., Loxdale HD., Balog A. 2024. *Aphid adaptation in a changing environment through their bacterial endosymbionts: an overview, including a new major cereal pest (Rhopalosiphum maidis (Fitch) scenario. Symbiosis,* 1-14. [ISI2.1].
 75. Balahura Stămat LR., Dinescu S. 2024. *Inhibition of NLRP3 inflammasome contributes to paclitaxel efficacy in triple negative breast cancer treatment. Scientific Reports* 14, 24753 [ISI3.8]
 76. Raicopol MD., Hanganu A., Samoilă I, Dinescu S, Costache M, Balas M, Chiriță C, Șeremet O.C., Olaru O.T., Nicolescu F., Nicolescu T.O., Garea S. A., Ghebaur A. 2024. *PEGylated 5-aminosalicylic acid phospholipid bioconjugate: A novel prodrug designed for colon-targeted delivery, Journal of Drug Delivery Science and Technology.*101(A):106188. [ISI 4.5]
 77. Fora C.G., Dinescu S., Pircalabioru G.G. 2024. *Oak aphids Tuberculatus annulatus (Hartig, 1841) and Thelaxes dryophila (Schrank, 1801) (Hemiptera: Aphididae) endosymbiont microbiome diversity alters between natural and artificial oak forest regeneration. Symbiosis* 94, 179–190 [ISI 2.1]
 78. Bužarovska A., Stanoeva J.P., Karamanolevski P., Popa A.D., Dinescu S., Avérous L. 2025, *Thermoplastic Polyurethane/Poly(lactic Acid) Blend Foams Loaded With Curcuma longa L. and Hypericum perforatum Extracts Towards Wound Dressing Applications. Journal of Applied Polymer Science,* 142: e56708. [ISI 2.7]
 79. Lungu A, Dobrișan MR, Cernencu AI, Iovu H, Stancu IC, Olăreț E, Baltă C, Roșu M, Ciceu A, Hermenean A, Balahura R, Dinescu S. 2025. *GelMA–pectin–polyhedral silsesquioxane nanocomposites for 3D bioprinting of osteogenesis-stimulating scaffolds loaded with BMP-2. International Journal of Bioprinting* 6571 [ISI 6.8]

80. Balahura L-R, Dinu AI, Lungu A, Herman H, Balta C, Hermenean A, Şerban AI, Dinescu S. 2025. *Implantable Polymer Scaffolds Loaded with Paclitaxel–Cyclodextrin Complexes for Post-Breast Cancer Tissue Reconstruction*. *Polymers.*; 17(3):402. [ISI 4.7]
81. Radu I-C, Tanasa E, Dinescu S, Vlasceanu G, Zaharia C. 2025. *Advanced Nanobiocomposite Hydrogels Incorporating Organofunctionalized LDH for Soft Tissue Engineering Applications*. *Polymers*. 17(4):536. [ISI 4.7]
82. Maximov MV, Maximov OC, Motelica L, Fikai D, Oprea OC, Truşcă RD, Balahura L-R, Pericleanu R, Dumbravă AŞ, Corbu VM, Surdu V.A., Vasilievici G., Fikai A., Dinescu S., Gheorghe-Barbu I. 2025. *Comprehensive Evaluation of 45S5 Bioactive Glass Doped with Samarium: From Synthesis and Physical Properties to Biocompatibility and Antimicrobial Activity*. *Coatings*, 15(4):404. [ISI 2.8]
83. Sleiman L, Dinescu S. 2025. *Role of Non-Coding RNAs in White and Brown Adipose Tissue Differentiation and Development*. *Non-Coding RNA*. 11(3):30. [ISI 3.0]
84. Balog A., Dinescu S., Gradisteanu G., Csorba AB., Loxdale HD., Fora CG. 2025. *Corn leaf aphid, Rhopalosiphum maidis (Fitch) (Hemiptera: Aphididae) population expansion influenced by endosymbiotic bacterial diversity along a gradient of maize management and climate conditions*. *Symbiosis*. 95, 363–374. [ISI 2.0]
85. Dragomir L-N, Ghiţulică C-D, Cucuruz A, Lazar A, Voicu G, Dinescu S. 2025. *Bioactive Calcium Silico-Phosphate Glasses Doped with Mg²⁺ and/or Zn²⁺: Biocompatibility, Bioactivity and Antibacterial Activity*. *Antibiotics*. 14(6):534. [ISI 4.6]
86. Lazăr A-I, Şelaru A, Croitoru A-M, Motelica L, Oprea O-C, Truşcă R-D, Fikai D, Văireanu D-I, Fikai A, Dinescu S. 2025. *Conductive Chitosan–Graphene Oxide Scaffold with Applications in Peripheral Nerve Tissue Engineering*. *Polymers*. 17(17):2398. [ISI 4.9]
87. Nicolae C-V, Kadousaraei MJ, Olăreţ E, Serafim A, Aydin MS, Bogdan I-T, Bratu AE, Ginghină R-E, Dobranici A, Dinescu S, Mustafa K., Stancu I.C. 2025. *Enhancing Cellular Interactions Through Bioactivation and Local Nanomechanical Reinforcement in Nanodiamond-Loaded 3D-Printed Gellan Gum Scaffolds*. *Materials*. 18(17):4131. [ISI 3.2]
88. Olăreţ E, Ghibu E, Şelaru A, Dinescu S, Vasile BŞ, Jerca VV, Stancu IC, Jerca FA. 2025. *Electrospinning and Cross-Linking of Gelatin-Poly(2-Isopropenyl-2-Oxazoline) Nanofibers: A Route to Stable Hybrid Biomaterials*. *Macromol Rapid Communications*: e00576. [ISI 4.3]
89. Maximov MV, Sleiman L, Maximov OC, Truşcă RD, Motelica L, Spoială A, Fikai D, Fikai A, Dinescu S. 2025. *Synthesis and Characterization of Bioactive Coatings with Bone Regeneration Potential and Anti-Resorptive Effect*. *Coatings*. 15(10):1120. [ISI 2.8]
90. Lazăr A-I, Şelaru A, Croitoru A-M, Motelica L, Truşcă R-D, Fikai D, Oprea O-C, Văireanu D-I, Fikai A, Dinescu S. 2026. *Neuroregenerative Potential of Conductive Alginate-Graphene Oxide Scaffolds*. *Polysaccharides* 7(1):33. [ISI 5.5]
91. Buţarovska A., Lazar A. D., Şelaru A., Dinescu S. 2026. *Modified Poly(Lactic Acid) and Poly(Lactic Acid)/ZnO Nanocomposite Foams as Potential Scaffolds for Alveolar Bone Tissue Engineering*, *Journal of Applied Polymer Science* e70677 [ISI 2.8]

D. Lucrări publicate în ultimii 10 ani în reviste și volume de conferințe cu referenți (neindexate) Reviste

-

E. Selecție cu maximum 20 lucrări în volume de conferințe

1. Dinescu S., Ignat S., Jianu D., Codrici E., Mihai S., Costache M., 2017, Interrelation between age and platelet-rich plasma composition (in growth factors and exosomal miRNAs) for personalized regeneration therapies, *FEBS Journal* 284(1):359.
2. Dinescu S., Ignat S. R., Ionita M., Radu E., Jianu D., Costache M., 2017, Carbon nanotubes, graphene oxide and platelet-rich plasma enhance the versatility of biomaterials between adipose and bone tissue engineering, *FEBS Journal* 284(1):380.
3. Dinescu S., Selaru A., Balahura R., Dragusin-Zakman D., Tanasa E., Radu E., Stancu I. C., Costache M., 2019, Human adipose-derived stem cells behaviour and cytoskeleton development

in contact with electrospun fibrous gelatin materials enriched with magnetic nanoparticles, *FEBS OpenBio*, 9(1):212.

4. Serban M. V., Lazar A., Dinescu S., Gradisteanu Pircalabioru G., Averous L., Gualandi C., Buzarovska A., Costache M., Novel thermoplastic polyurethane foams enriched with ZnO nanoparticles exhibit antibacterial effect for wound healing applications, *FEBS OpenBio*, 9(1):213.
5. Selaru A., Dinescu S., Becheru D., Ignat S., Lazar A., Samoila I., Radu E., Ionita M., Costache M., Graphene oxide actively supports bone regeneration in biocompatible 3D scaffolds based on chitosan and gelatin, *FEBS OpenBio*, 9(1):239.
6. Ignat S. R., Dinescu S., Samoila I., Balahura R., Fenyvesi F., Hermenean A., Costache M., Chrysin complexed with cyclodextrins as a novel regenerative therapy for liver fibrosis, *FEBS OpenBio*, 9(1):239.
7. Lazar A. D.; Samoila I.; Dinescu S.; Costache M. Differential expression of key adhesion markers and apoptotic regulators influences the malignant progression of cutaneous melanoma, *FEBS OpenBio*, 11(1):436.
8. Ignat S. R.; Gharbia S.; Dinescu S.; Balahura R.; Fenyvesi F.; Hermenean A.; Costache M. Human adipose-derived stem cells secretome and hepatocyte growth factor (HGF) exhibit a beneficial effect on hepatic fibrosis reversion, *FEBS OpenBio*, 11(1):346.
9. Dinescu S.; Selaru A.; Dobranici A. E.; Olaret E.; Stancu I.; Costache M. Human-adipose derived stem cells interaction with natural-based composites for peripheral nerve regeneration, *FEBS OpenBio*, 11(1):345.
10. Balahura L. R.; Dinescu S.; Lazar A. D.; Cernencu A.; Lungu A.; Costache M. 5-Fluorouracil-enriched nanocellulose and pectin biomaterials determined inflammasome complex activation and ROS production in breast cancer cells, *FEBS OpenBio*, 11(1):240.
11. Samoila I.; Dinescu S.; Costache M. Correlation between the modified expression of autophagy and endoplasmic reticulum stress markers and the continuous inflammation of the colon in ulcerative colitis, *FEBS OpenBio*, 11(1):160-161.
12. Selaru A, Olaret E, Costache M, Dinescu S. Molecular characterization of adipose-derived stem cells trans-differentiation to the neuronal lineage in the presence of graphene-oxide, *FEBS OpenBio*, 12:218-218.
13. Samoila I, Gradisteanu G, Dinescu S, Costache M. MUC2 expression as a trigger of intestinal epithelium dysregulation and microbiome dysbiosis in the context of ulcerative colitis. *FEBS OpenBio*, 12:300-300.
14. Nazarie SR, Dinescu S, Fenyvesi F, Olah N, Costache M, Hermenean A. Gemmotherapeutic extract from *Corylus avellana* potentiates the chrysin effect on activated hepatic stellate cells reversion. *FEBS OpenBio*, 12:219-219.
15. Lazar AD, Dinescu S, Costache M. Expression profiling reveals dysregulated microRNAs involved in the progression of melanocytes to primary and metastatic melanoma. *FEBS OpenBio*, 12:103-104.
16. Balahura (Stamat), L., Costache M, Dinescu S. Dynamic influence of paclitaxel on inflammasome components and pyroptosis in breast cancer cells. *FEBS OpenBio*, 12:103-103.
17. Dobranici A, Olaret E, Costache M, Dinescu S. Correlation between epigenetic changes and cytoskeletal fibers distribution in human adipose-derived stem cells exposed to magnetic materials. *FEBS OpenBio*, 12:218-218.
18. Selaru A, Dinescu S, Dobranici A, Olaret E, Stancu I, Costache M. Neural differentiation of human adipose-derived stem cells in response to electrospun fibrous gelatin materials enriched with magnetic nanoparticles and graphene oxide. *Tissue Engineering Part A* 2022, 28: S223-S223.
19. Dobranici A.E., Olaret E., Costache M., Dinescu S. Molecular regulation during mesenchymal stem cells neuronal differentiation in contact with magnetic gelatin-based scaffolds. *FEBS OpenBio*, 13:152-153.
20. Balahura (Stamat) L.R., Dinescu S., Costache M., Modulation of NLRP3 inflammasome assembly, cytokine production and pyroptosis cell death: implications for a potential therapy of breast cancer. *FEBS OpenBio*, 13:60.

F. Brevete obținute în întreaga activitate

1. Anton L., Costache M., Dimonie D., Dinescu S., Gabor R., Nicolae C., Petrache M., Trandafir I. 2014. *Compoziție și procedeu pentru obținerea unor hidrogeluri pH și termosensibile destinate ingineriei tisulare*, OSIM, RO129557-A2/2014
2. Cerere de brevet: Hermenean A., Ardelean A., Cotoraci C., Olah N.K., Fenyvesi F., Balta C., Rosu M., Herman H., Ciceu A.L., Gharbia S., Costache M., Ignat S. R., Dinescu S. 2018. *Sisteme drug delivery Crisină - Random methyl-beta cyclodextrin (RAMEB) cu potențial anti-fibrotic ridicat în prevenția/regenerarea leziunilor fibrotice hepatice*, cerere de brevet înregistrată la OSIM în 05.12.2018 cu nr. A/01052.
3. Cerere de brevet Galateanu B., Hudita A., Ginghina O., Dinescu S., Costache M., Radu I.C., Zaharia C. 2021. *Model de cuantificare a cantității de 5FU internalizată în celulele tumorale de adenocarcinom colorectal după administrare prin nanosisteme polimerice etichetate cu secvențe AND*. OSIM, nr. A/00023/ 26.01.2021.
4. Cerere de brevet: Olaret E., Stancu IC, Iovu H., Dinescu S., Costache M. 2021. *Procedeu pentru obținerea de structuri tubulare fibroase multilumen pentru regenerarea nervilor periferici* OSIM nr. A/00555 / 15.09.2021.
5. Cerere de brevet: Zaharia C., Radu IC, Istratou EA, Costache M., Ignat SR, Serban MV, Dinescu S. *Procedeu de obținere de noi bionanocompozite pe bază de argile modificate și polimeri destinate ingineriei țesutului moale*. OSIM nr. A/00550/ 15.09.2021.
6. Cerere de brevet: Hermenean A., Balta C., Olah N.K., Costache M., Dinischiotu A., Dinescu S., Nazarie S., Lazar A., Selaru A., Samoila I., Balahura R., Serban M.V, Voicu S.N., Badea A., Ion C., Cotoraci C., Fenyvesi F., Rosu M., Gharbia S., Herman H., Ciceu A., Mladin B., Burtescu R., Pripon F. *Compoziție fitoterapeutică pe bază de extract gemoterapic de corylus avellana îmbogățit cu nanocomplexe de crisină/ciclodextrine destinat fibrozei hepatice în diabetul zaharat și metodă de obținere a acesteia*. OSIM nr. 136022 A/00328/28.10.2022.

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