

Listă de publicații

Candidat: Ionela Cotfas (Movileanu)

1. Teză de doctorat

Generarea, precondiționarea in vitro și testarea in vivo de înlocuitori valvulari biologici derivați din matricea extracelulară, 2021, Conducător științific: Prof. Univ. Klara Brânzaniuc; Diploma de doctor eliberată de UMFST "GEP" în baza Ordinului Ministerului Educației nr 3324 din 02.03.2022, calificativ: "Excelent" - "Summa Cum Laude".

2. Cărți, Capitle

2.1 Carte:

M. Harpa, Klara Brinzaniuc, H. Suciu, Ovidiu Cotoi, **Movileanu Ionela**, Dan Simionescu, Studii experimentale de bioinginerie tisulara in chirurgia cardiaca valvulara, Editura University Press Tîrgu Mureș, 2017, 116 pg, ISBN 978-973-169-500-6, Cod CNCS 210.

2.2 Capitol:

Movileanu I. *A European Study on Decellularized Homografts for Pulmonary Valve Replacement: Initial Results from the Prospective Espoir Trial and Espoir Registry Data*, în Actualități în Cardiologie Ediția a III-a (sub redacția Dragoș Vinereanu, Ovidiu Chioncel, Sorina Mihăilă Baldea), Editura Media Med Publicis București, 2021, 4 pg, ISBN 978-606-8463-71-1, cod CNCS 343.

3. Articole publicate in extenso

3.1. Articole în reviste cotate ISI, cu factor de impact

1. **Movileanu Ionela**, Harpa M, Al Hussein H, Harceaga L, Chertes A, Al Hussein H, Lutter G, Puehler T, Preda T, Sircuta C, Cotoi O, Nistor D, Man A, Cordos B, Deac R, Suciu H, Branzaniuc K, Casco M, Sierad L, Bruce M, Simionescu D, Simionescu A. *Pre-clinical Testing of Living Tissue Engineered Heart Valves for Pediatric Patients; Challenges and Opportunities*. Frontiers in Cardiovascular Medicine 2021, 8:707892 doi:10.3389/fcvm. 2021.707892, ISSN 2297-055X, FI: 6.050.

2. **Movileanu Ionela**, Pepa M, Căndea M, Ureche C. *Heart valve mechanical prosthesis- the perfect match until it is not*. Experimental and Therapeutic Medicine 2020, 20(3):2481-3 doi:10.3892/etm.2020.8959, ISSN 1792-1015, FI: 1.448.

3. Al Hussein H, Al Hussein H, Sircuta C, Cotoi OS, **Movileanu Ionela**, Nistor D, Cordos B, Deac R, Branzaniuc K, Simionescu D, Harpa M. *Challenges in Perioperative Animal Care for Orthotopic Implantation of Tissue-Engineered Pulmonary Valves in the Ovine Model*. Tissue Engineering and Regenerative Medicine 2020, 17(6):847-62 doi: 10.1007/s13770-020-00285-1, ISSN 2212-5469, FI: 3.963.

4. Al Hussein H, Harpa M, **Movileanu Ionela**, Al Hussein H, Suciu H, Branzaniuc K, Simionescu D. *Minimally invasive surgical protocol for adipose derived stem cells collection and isolation—ovine model*. Revista de Chimie 2019, 5:1826-8 doi.org/10.37358/RC.19.5.7224, ISSN 2668-8212, FI: 1.605.

5. Harpa M, **Movileanu Ionela**, Sierad L, Cotoi O, Suciu H, Preda T, Nistor D, Sircuta C, Branzaniuc K, Deac R, Gurzu S, Harceaga L, Olah P, Simionescu D, Dandel M, Simionescu A. *In vivo testing of xenogeneic acellular aortic valves seeded with stem cells*. Revista Romana de Medicină de Laborator 2016, 24(3):343-6 doi: 10.1515/rrlm-2016-0031, ISSN 2284-5623, FI: 0.32.

6. Sierd L, Shaw E, Bina A, Brazile B, Rierson N, Patnaik SS, Kenamer A, Odum R, Cotoi O, Preda T, Branzaniuc K, Smallwood H, Deac R, Egyed I, Pavai Z, Szanto A, Harceaga L, Suciu H, Raicea V, Olah P, Simionescu A, Liao J, **Movileanu Ionela**, Harpa M, Simionescu D. *Functional Heart Valve Scaffolds Obtained by Complete Decellularization of Porcine Aortic Roots in a Novel Differential Pressure Gradient Perfusion System*. Tissue Engineering Part C Methods 2015, 21(12):1284-96 doi: 10.1089/ten.TEC.2015.0170, ISSN 1937-3384 FI: 4.44.

7. Harpa M, **Movileanu Ionela**, Sierad L, Cotoi O, Suciu H, Sircuta C, Preda T, Nistor D, Branzaniuc C, Deac R, Dandel M, Gurzu S, Harceaga L, Olah P, Simionescu A, Simionescu D. *Pulmonary heart valve replacement using stabilized acellular xenogeneic scaffolds; effects of seeding with autologous stem cells*. Revista Romana de Medicina de Laborator 2015, 23(4):415-30 doi: doi.org/10.1515/rrlm-2015-0046, ISSN 2284-5623, FI: 0.32.

3.2. Articole în reviste cotate ISI fără factor de impact

1. Olah P, **Movileanu Ionela**, Suciu N, Muji M, Marusteri M, Simionescu D, Avram C. *Exploring Hierarchical Medical Data stored as Multi-trees in a Relational Database*. International Conference

on Advancements of Medicine and Health Care through Technology, MEDITECH 2016: 219-222, Springer International Publishing, ISBN: 978-3-319-52874-8, IFMBE Proceeding.

3.3. Article in reviste indexate BDI

1. **Ionela Movileanu**, Nistor D, Sierad L, Brinzaniuc K, Oprea C, Harpa M, Preda T, Cotoi O, Al Hussein H, Al Hussein H, Chertes A, Suciu H, Simionescu A, Simionescu D. *Developing the Tissue Engineered Heart Valve – a Descriptive Hemodynamic and Ultrasound in Vitro Characterization Study of Heart Valves in a Bioreactor*. Romanian Journal of Cardiology 2021, 31(3): 555-563 <https://doi.org/10.47803/rjc.2021.31.3.555>, ISSN 2734-6382, indexata SCOPUS, EBOSCO - <https://www.ebscohost.com/titleLists/a9h-journals.pdf>

2. Dan Simionescu, Marius Mihai Harpa, Agneta Simionescu, Codrut Oprea, **Ionela Movileanu**. *Tissue Engineering Heart Valves – a Review of More than Two Decades into Preclinical and Clinical Testing for Obtaining the Next Generation of Heart Valve Substitutes*. Romanian Journal of Cardiology 2021, 31(3): 501-510 <https://doi.org/10.47803/rjc.2021.31.3.501>, ISSN 2734-6382, indexata SCOPUS, EBSCO - <https://www.ebscohost.com/titleLists/a9h-journals.pdf>

3. **Ionela Movileanu**, Brinzaniuc K, Chertes A, Preda T, Cotoi O, Harpa M, Al Hussein H, Suciu H, Deac R, Portilla M, Simionescu D. *A novel manufactured system designed to ensure consistent conditions in mechanical preconditioning of ovine adipose derived stem cells differentiation towards endothelial cell lineage*. Acta Medica Transilvanica 2019, 24(3):18-21, ISSN 2285-7079, indexata EBSCO, DR J I - <https://www.ebscohost.com/titleLists/a9h-journals.htm>.

4. **Ionela Movileanu**, Brinzaniuc K, Harpa M, Nistor D, Cotoi O, Preda T, Al Hussein H, Moldovan O, Man A, Harceaga L, Sierad L, Simionescu D. *Pressurized Perfusion System for Obtaining Completely Acellular Pulmonary Valve Scaffolds for Tissue Engineering*. ARS Medica Tomitana 2019, 25(4):149-156 <https://doi.org/10.2478/arsm-2019-0030>, ISSN 1841-4036, indexata EBSCO, Index Copernicus - <https://www.ebscohost.com/titleLists/a9h-journals.htm>.

5. **Ionela Movileanu**, Brinzaniuc K, Harpa M, Cotoi OS, Preda T, A Hussein H, Al Hussein H, Suciu H, Simionescu D. *Cryopreservation Increases Availability and Usability of Ovine Adipose-tissue Derived Stem Cells for Regenerative Medicine Research*. Revista de Chimie 2020, 71(3):178-84 doi.org/10.37358/Rev. Chim.1949, ISSN 2668-8212, indexata in SRJ, EVISA - <https://speciation.net/Database/Journals/Revista-de-Chimie-;i568>.

6. **Ionela Movileanu**, Harpa M, Branzaniuc K, Suciu H, Cotoi OS, Olah P, Simionescu D. *A Standardized Dissection Protocol to Generate Aortic Valvular Scaffolds from Porcine Hearts*. Acta

Medica Marisiensis 2017; 63(3):133-5 doi: 10.1515/amma-2017-0029, ISSN 2247-6113. Indexata Scopus, EBSCO - <https://www.scopus.com/sourceid/21101023830>.

7. Harpa M, Branzaniuc K, **Ionela Movileanu**, Cotoi O, Suciu H, Deac R, Harceaga L, Simionescu A, Olah P, Simionescu D. *Implantation of valvular collagen biomaterials seeded with autologous stem cells – intraoperative hemodynamic measurements in an animal model*. Acta Medica Transilvanica 2015;20(2):38-39 ISSN 2285-7079, indexata EBSCO, DR J I - <https://www.ebscohost.com/titleLists/a9h-journals.htm>.

4. Articole publicate în rezumat în reviste și volumele unor manifestări științifice, indexate ISI - de la ultima promovare

1. **Movileanu Ionela**, Nistor D, Brinzaniuc K, Harpa M, Preda T, Cotoi OS, Al Hussein H, Sierad L, Simionescu D. *The VALVE REGEN project. Developing an innovative tissue engineered heart valve, in vitro and in vivo testing—preliminary results*. Congresul European de Cardiologie - ESC Congress - The Digital Experience, 29 August-1 Septembrie 2020, European Heart Journal Vol 41(2), ISSN 1522-9645.

5. Articole publicate în rezumat în reviste și volumele unor manifestări științifice – de la ultima promovare

1. **Movileanu Ionela**, Harpa M, Al Hussein H, Al Hussein H, Truta R, Kovacs O, Preda T, et al. - *Anatomia (...et histologia) clavus et clavis medicinae est – a new paradigm of cardiovascular diseases treatment using tissue engineering*. The 22th National Congress of the Society of Anatomy, Brașov, 12-14 Mai 2022, Volum de Rezumate, ISSN 2668-3105.

2. **Movileanu Ionela**, Harpa M, Al Hussein H, Preda T, Cotoi O, Al Hussein H, Chertes A, Simionescu D, Brinzaniuc K. *The next generation of heart valve substitutes are the tissue engineered heart valves*. The 21st National Congress of the Society of Anatomy, Sovata, 24-26 Septembrie 2021, Acta Marisiensis Seria Medica Vol 67, supp 2, ISSN 2668-7755.

3. **Movileanu Ionela**, D Nistor, C Deac, M Dinesch, M. Opris. *Recurrent thrombosis of mechanical prosthesis in mitral position - a shortcoming of the patient or of current therapeutic options?*. Al 59-lea Congres Național de Cardiologie, Sinaia, 16-19 Septembrie 2020, Romanian Journal of Cardiology Vol 30, supp 2020, ISSN 1220-658X.

4. **Movileanu Ionela**, Nistor D, Opreș M. *The surgical journey of a posterior mitral leaflet flail*. Al 58-lea Congres Național de Cardiologie, Sinaia, 18-21 Septembrie 2019, Romanian Journal of Cardiology Vol 29, supp 2019, ISSN 1220-658X.

5. **Movileanu Ionela**, Brinzaniuc K, Harpa M, Nistor D, Cotoi O, Preda T, Al Hussein H, Simionescu D. *The ideal heart valve substitute is a living tissue engineered heart valve; preliminary in vitro and in vivo testing*. Al 58-lea Congres Național de Cardiologie, Sinaia, 18-21 Septembrie 2019, Romanian Journal of Cardiology Vol 29, supp 2019, ISSN 1220-658X.

6. **Movileanu Ionela**, Brinzaniuc K, Harpa M, Nistor D, Cotoi OS, Preda T, Al Hussein H, Moldovan O, Simionescu D. *Obtaining the completely acellular pulmonary valve – how?*. Al 57-lea Congres Național de Cardiologie, Sinaia, 19-22 Septembrie 2019, Romanian Journal of Cardiology Vol 28, supp 208, ISSN 1220-658X.

6. Prezentări în cadrul manifestărilor științifice internaționale și naționale în calitate de prim autor/co-autor

1. **Movileanu Ionela**. The PEDIAVALVE project, a glance into the next generation of tissue engineered pediatric heart valves substitutes, preclinical in vitro performances assessment. Al 17-lea Congres Național al Societății Române de Chirurgie Cardiovasculară, Poiana Brașov, 27-29 Octombrie 2022.

2. **Movileanu Ionela**, Brinzaniuc K, Harpa M, Cotoi OS, Preda T, Al Hussein H, Simionescu D. *Cryopreservation – a time buyer solution for stem cells in regenerative medicine research*. The 10 Conference of PhD Students, Târgu Mureș, 13-14 Decembrie 2017.

3. **Movileanu Ionela**, Branzaniuc K, Moldovan O, Harpa M, Suciu H. *Rebirth of a child in the cardiovascular surgery operating room*. International Congress for Students, Young Physicians and Pharmacists, Marisiensis, Tîrgu Mureș, 28 Martie – 2 aprilie 2017.

4. **Movileanu Ionela**, Harpa M, Preda T, Cotoi O, Simionescu A, Simionescu D. *Tomorrow's valvular substitute - transformation of a porcine heart valve into a tissue engineered heart valve in under a week*. International Congress for Students, Young Physicians and Pharmacists, Marisiensis, Tîrgu Mureș, 2017, 28 Martie – 2 aprilie 2017.

5. **Movileanu Ionela**, Harpa M, Cotoi O, PredaT, Simionescu A, Simionescu D. *Adipose tissue derived stem cells - the medicine of the future?*. International Congress for Students, Young Physicians and Pharmacists, Marisiensis, Tîrgu Mureș, 30 Martie- 2 Aprilie 2016.

6. **Movileanu Ionela**, Harpa M, Bancos R, Ciortianu LE, Vulea DM, Pasca MD. *A psycho-social perspective on organ donation among medical personnel*. International Congress for Students, Young Physicians and Pharmacists Marisiensis, Tîrgu Mureş, 22-16 Aprilie 2015.
7. **Movileanu Ionela**, Harpa M, Deac R, Suciu H, Olah P, Simionescu D. *Testing of valvular xenografts seeded with stem cells on animal model*. The 19 International Scientific Congress for Students, Young Physicians and Pharmacists, Marisiensis, Tîrgu Mureş, 22-16 Aprilie 2015.
8. Al Hussein H, Harpa M, Al Hussein H, **Movileanu I**, Brînzaniuc K, Simionescu D, Suciu H. *Tissue engineering in experimental cardiac valvular surgery – the ovine model*. Al 16-lea Congres National al Societății Române de Chirurgie Cardiovasculară, online, 28-31 Octombrie 2021.
9. Simionescu D, Harpa M, Deac R...., **Movileanu Ionela**... Simionescu A. *The VALVE-REGEN project; extracellular matrix scaffolds, adult stem cells and bioreactors for cardiac valve tissue regeneration*. Anniversary Symposium, "An incredible 40-year journey to understand cell's secrets for the benefit of human health", Bucuresti, 2019.
10. Harpa M, Suciu H, Al-Hussein H, **Movileanu Ionela**, Sircuta C, Brânzaniuc K, Simionescu D. *Tissue engineered heart valve: our experimental progress*. Sesiunea Cadrelor Didactice Medicină. Medicină Dentară. Farmacie, UMFSTGEP de Tîrgu Mures – University Days, Tîrgu Mures 2019.
11. Harpa M, **Movileanu Ionela**, Sierad L.. Simionescu D. *Regenerative Potential of Autologous Stem Cell Seeded, Polyphenol-Stabilized Acellular Valve Scaffolds in the Juvenile Sheep Model*. ISACB, 15 Biennial meeting, Banff, Alberta, Canada, 7-10 Septembrie 2016.
12. Harpa M, **Movileanu Ionela**, Kennamer A.... Simionescu D. *How Close Are We to Fully Engineering a Living Heart Valve? A Tale of Scaffolds, Stem Cells, Bioreactors and Sheep*. Heart Valve Society, 2016 Annual Scientific Meeting, New York City, USA 2016.
13. Simionescu D, Sierad L, Shaw EL... **Movileanu Ionela**, Harpa M. *Adult stem cell-based cardiac valve tissue regeneration*. The First International Society of Regenerative Medicine and Surgery CONGRESS, Bucureşti 15-16 Mai 2015.
14. Harpa M, **Movileanu Ionela**, Branzaniuc K, Suciu H, Nistor D, Deac R, et al. *Model animal ovin pentru testarea valvelor cardiace obtinute prin inginerie tisulara*. National Congress of the Society of Anatomy, Bucureşti, 2015.
15. Harpa M, Suciu H, Deac R, **Movileanu Ionela**, Olah P, Sircuta C, Brinzaniuc K, Simionescu D. *A xenograft heart valvular conduit – intraoperative hemodynamic parameters measurement*. Annual Conference of the PhD and Post-Doc Students, Tîrgu Mureş, 2014.

16. Harpa M, Suci H, Deac R, Raicea V, **Movileanu Ionela**, Sircuta C, et al. *Decellularized pulmonary valve xenografts with promising functional and morphological characteristics after 6 months of in vivo testing*. Romanian Society of Cardiac and Vascular Surgery, Iași, 2014.
17. Harpa M, Preda T, **Movileanu Ionela**, Cotoi O, Simionescu DT. *Adipose Tissue-Derived Stem Cell Sourcing for Heart Valve Tissue Regeneration; Selection of the Optimal Anatomical Site and Harvesting Procedure in Sheep*. 6 Biennial Meeting on Heart Valve Biology & Tissue Engineering, Londra, Anglia, 2014.
18. Szántó A, Pávai Z, Harpa M... **Movileanu Ionela**, Simionescu DT. *An immunohistological study of cell-seeded acellular valves*, Al XII-lea Simpozion Național de Morfopatologie Microscopică, Craiova, 2014.