

## Listă de lucrări

### Publications (ISI)

1. Popescu D, Baci F, Amza C, Cotrut C M, Marinescu R: The effect of disinfectants absorption and medical decontamination on the mechanical performance of 3D-printed ABS parts, *polymers-1468109*, 2021
2. Popescu D, Marinescu R, Laptou D, Deac GC, Cotet CE. DICOM 3D viewers, virtual reality or 3D printing – a pilot usability study for assessing the preference of orthopedic surgeons. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*. 2021;235(9):1014-1024.
3. Popescu D, **Marinescu R**, Laptou D, Deac GC, Cotet CE. DICOM 3D viewers, virtual reality or 3D printing – a pilot usability study for assessing the preference of orthopedic surgeons. *Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine*. 2021;235(9):1014-1024- prim autor.
4. F Curti, IC Stancu, G Voicu, H Iovu, CI Dobrita, LT Ciocan, **R Marinescu**, Development of 3D bioactive scaffold through 3D printing using wollastonite-gelatin inks, *Polymers* 12(10), 2020-prim autor
5. **R Marinescu**, D Popescu, D Laptou, A Review on 3D-Printed Templates for Precontouring Fixation Plates in Orthopedic Surgery, *Journal of Clinical Medicine* 9 (9), 2019 prim autor
6. Popescu, D., Baci, F., Vlăsceanu, D., Cotruț, C.M. and **Marinescu, R.**, Effects of multiple sterilizations and natural aging on the mechanical behavior of 3D-printed ABS., *Mechanics of Materials*, p.103423. 2020-prim autor
7. Popescu, D., Zapciu, A., Amza, C., Baci, F. and **Marinescu, R.**, FDM process parameters influence over the mechanical properties of polymer specimens: A review. *Polymer Testing*, 69, pp.157-166. 2018-prim autor
8. Popescu, D., Laptou, D., **Marinescu, R.** and Botezatu, I., Design and 3D printing customized guides for orthopaedic surgery—lessons learned. *Rapid Prototyping Journal*. 2018 co-autor
9. **Marinescu, R.**, Lăptou, D., Botezatu, I., Ciumeica, S., Bunea, A., Ștefan, G., Denosumab Treatment in a Rare, Neglected Giant Cell Tumor (GCT) of the Femoral Neck: Case Report and Literature Review. *Romanian Journal of Orthopaedic Surgery and Traumatology*, 1(Supp), 63-63, (2018)-prim autor
10. Vlăsceanu, D., Baci, F., Popescu, D., Hadar, A. and **Marinescu, R.**, Development and 3D Printing of an ABS Ergonomic Handle for Medical Use. *Materiale Plastice*, 55(4), p.630, 2018.-prim autor

11. DM Dragusin, F Curti, S Cecoltan, D Sarghiuta, LM Butac, E Vasile, **R Marinescu**, IC Stancu, Biocomposites Based on Biogenous Mineral for Inducing Biomimetic Mineralization, *Materiale Plastice* 54 (2), 207-213, 2017-prim autor
12. A Serafim, MO Constantinescu, FT Iordache, E Vasile, A Lungu, **R Marinescu**, IC Stancu; Bio-activation of Inert pHEMA Matrices with Phosphate Loaded Cellulose Fibers in Order to Induce Mineralization, *Materiale Plastice* 54 (2), 235-238, 2017-prim autor
13. **R Marinescu**, VI Antoniac, DI Stoia, D Lăptoiu, Clavicle anatomical osteosynthesis plate breakage–failure analysis report based on patient morphological parameters, *Rom J Morphol Embryol* 2017, 58(2):593–598, ISSN (print) 1220–0522-prim autor
14. S Dutulescu, C Socoliuc, L Nichita, C Popp, SA Jacob, G Pop, AI Dragusin, **R Marinescu**, E Gramada Importance of differential diagnosis in clear cell chondrosarcoma: A case report, *Virchows Archiv* 469, S333-S333, 2016-co-autor
15. D Lăptoiu, **R Marinescu**, C Balan, I Antoniac, Rheologic properties of some current hyaluronic acid products for viscosupplementation-new trends for amelioration, *Materiale Plastice* 52 (4), 500-503, 2015 co-autor
16. **R Marinescu**, I Antoniac, D Lăptoiu, A Antoniac, D Grecu, Complications related to biocomposite screw fixation in ACL reconstruction based on clinical experience and retrieval analysis *Materiale Plastice* 52 (3), 340-344, 2015-prim autor
17. Groseanu L, **Marinescu R**, Lăptoiu D, Botezatu I, Staniceanu F, Zurac S, Ionescu R. A late and difficult diagnosis of occhrosis, *J Med Life*. 2010 Oct-Dec;3(4):437-43. PubMed PMID: 21254745; ISSN 1844-122x Impact Factor Scopus 0,15-co-autor
18. Botezatu I, **Marinescu R**, Lăptoiu D, Minimally invasive-percutaneous surgery - recent developments of the foot surgery techniques. *J Med Life*. 2015;8 Spec Issue:87-93. ISSN 1844-3117 co-autor
19. **Marinescu R**, Lăptoiu D, Negrusoiu M. Outside-in meniscus suture technique - *Knee Surg Sports Traumatol Arthrosc*. 2003 May;11(3):167-72. Springer Verlag, prim autor
20. **R Marinescu**, D Lăptoiu, I Antoniac, C Petcu, Development of Modified Viscoelastic Solution with Magnetic Nanoparticles–Potential Method for Targeted Treatment of Chondral Injuries, *Key Engineering Materials* 583, 145-149, 2014 IF = 0.224
21. **R Marinescu**, D Lăptoiu, I Botezatu, Radiographic analysis of bone remodeling around hydroxyapatite coated femoral stems *Proceedings of BIOCERAMICS*, 2013 ISBN-13 978-3-03785-899-8, Vol.587 *Key Engineering Materials*(2013),pg.436-441. IF = 0.224
22. D Lăptoiu, **R Marinescu**, I Botezatu, Transfemoral fixation in soft tissue cruciate ligament reconstructions – composite versus crystalline implant analysis, *Proceedings of BIOCERAMICS*, 2013 ISBN-13 978-3-03785-899-8, Vol 587 *Key Engineering Material* (2013), pg.397-403 IF = 0.224

## **Publications (IDB)**

1. **R Marinescu**, D Popescu, 3D Prints are not a panacea but definitely support orthopedic surgery, 2020 International Conference on e-Health and Bioengineering (EHB), 1-4
2. **Marinescu, R.**, Socoliuc, C., Botezatu I, Laptoiu, D., Voinescu Metallosis-Literature Review and Particular Cases Presentation D in Key Engineering Materials ISSN 1662-9795 Vol 745 pp 77-90 doi: 10.4028/www.scientific.net/KEM.745.77. 2017
3. D Popescu, D Lăptoiu, **R Marinescu**, A Hadar, I Botezatu, Advanced Engineering in Orthopaedic Surgery Applications, Key Engineering Materials 752, 99-104 2017
4. **Marinescu, R.**, Laptoiu, D, Socoliuc, C, & Antoniac, I V, Pretibial Cyst Formation in ACL Reconstruction-a Case Report. (2016). Key Engineering Materials (Vol. 695, pp. 111-117). Trans Tech Publications 2016
5. S Cecoltan, DG Petre, EG Stan, E Vasile, HE Cioflan, M Istodorescu, Alginate Used to Develop Bio-inspired Composite Microparticles for Bone Regeneration, Key Engineering Materials 638, 20-26 2015
6. D.Laptoiu, **R. Marinescu**, R. Istrate, I.Antoniac, Titanium Versus Biodegradable Interference Screw Fixation: Surface Analysis And Literature Review, 3rd International Conference on Biomaterials and Medical Devices BiomMedD'2008, Pag 229- 30, ISBN 978- 606-521-1
7. **Marinescu R**, Botezatu I, Laptoiu D, Stefan G, Ionita B, Volvoreanu D, Late TKA periprosthetic infections: prevalence, difficulties, solutions/Infectiile tardive secundare artroplastiei totale de genunchi: incidenta, dificultati, solutii, Therapeutics, Pharmacology and Clinical toxicology, Vol XV, Supp 1, April 2011
8. **Marinescu R**, Laptoiu D, Negrusoiu M, Tratamentul artroscopic al sindromului de pintene calcanean, Rev de Ortopedie si Traumatologie ASORIS nr1(9), 106-109, 2007
9. **Marinescu R**, Elefterescu H, Ciobotaru E, Aspecte anatomopatologice ale repararii meniscale prin sutura- studio experimental, Revista de Ortopedie si Traumatologie 2001, vol11, nr3, 179-185.

## **Patents:**

1. Orthosis with magnets for knee, Antoniac I, Petcu C, **Marinescu Rodica**, Laptoiu D 128699 29/11/2017
2. Procedure for obtaining hydrated bionanocomposite substrates for cell growth and tissue regeneration / modeling, Stancu I.C., Cecoltan S., **Marinescu Rodica.**, Salageanu A, 132544 from 29/05/2020
3. Dynamometric dispositive for acetabular cup insertion devices in cementing total hip arthroplasty, **Rodica Marinescu**, Diana Popescu, A00862/2018

## International Congress Presentations

1. The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021: Additively Manufactured Customized Implant for Severe Acetabular Bone Defect – A Case Report, **Rodica Marinescu**, Diana Popescu
2. The 9th IEEE International Conference on E-Health and Bioengineering - EHB 2021: Upper Limbs Orthoses Production in 3D Printing Points-of-Care, Diana Popescu, **Rodica Marinescu**, Ștefan Octavian Sandache
3. The 8th IEEE International Conference on E-Health and Bioengineering - EHB 2020: 3D Prints are not a Panacea, but Definitely Support Orthopaedic Surgery, **Rodica Marinescu**, Diana Popescu
4. ISAKOS 2019, Cancun, Transphyseal ACL Reconstruction in Skeletally Immature Patients: Medium Term Follow-Up with Focus on Gender and Return to Competitive Sports, **Rodica Marinescu**, Iozefina Botezatu, Dan Laptoiu, Andrei Bunea
5. ISAKOS 2019, Cancun, Medial Tibial Reduction Osteotomy for Advanced varus: Is There a Release Algorithm?, **Rodica Marinescu**, Iozefina Botezatu, Dan Laptoiu
6. SICOT 2019, Oman, Biocomposite Screws Fixation in Soft Tissue ACL Reconstruction - retrieval analysis after tibial cyst; case series, **Rodica Marinescu**, Iozefina Botezatu, Alina Benescu, Dan Laptoiu
7. SICOT 2019 Clinical and Radiographic Outcomes of Impaction Bone Grafting Technique for Femoral Component Loosening in Revision Hip Arthroplasty, **Rodica Marinescu**, Dan Laptoiu, Iozefina Botezatu, Andrei Bunea, Stefan Ciumeica
8. 37<sup>th</sup> SICOT Orthopedic World Congress, Rome 2016, D Laptoiu, I Botezatu, **R Marinescu**, I Antoniac, DI Stoia: Minimally invasive techniques associated with midfoot fusion bolts in Charcot foot: case series and biomechanical results
9. SRATS 2018, Marinescu R: Outside-in meniscus suture-short history-invited lecture
10. SRATS 2016, **Marinescu R**: Transphyseal reconstruction of the anterior cruciate ligament in skeletally immature patients- a preliminary report-invited lecture
11. SRATS 2016, **Marinescu R**: The anatomy of the paediatric patient and risk for growth plate injury, Conference Round Table
12. SRATS 2016, **Marinescu R**: Meniscus Allograft transplantation - clinical outcomes and complications, Conference Round Table
13. 7<sup>th</sup> International Conference Biomaterials, Tissue Engineering & Medical Devices, BIOMMED 2016, Constanta, **Rodica Marinescu**: Metallosis-a challenge for orthopaedic surgeon

14. 28-th European Congress of Pathology, .Dutulescu, C. Socoliuc, L. Nichita, C. Popp, S.A. Iacob, G Pop, A.-I.Dragusin, **R. Marinescu**, E.Gramadă, A.E.Bastian: Importance of differential diagnosis in clear cell chondrosarcoma: a case report,Koln 2016.

15. European Conference on Orthopaedic Biomaterials ECOB 2015, Bucharest, 20-21 October 2015 **Rodica Marinescu**, Iulian Antoniac, Dan Laptoiu, Dan Ioan Stoia, Botezatu Iozefina: CLAVICLE PLATE BREAKAGE - FAILURE ANALYSIS REPORT, **Rodica Marinescu**, Iulian Antoniac, Dan Laptoiu, Dan Ioan Stoia, Botezatu Iozefina

16. EFFORT 2014, Simple reconstruction technique of patella during total knee arthroplasty in patelectomised patient,**Rodica Marinescu**, Iozefina Botezatu, Dan Laptoiu

17. International Seminar on Biomaterials and Regenerative Medicine BIOREMED 2015, Pretibial cyst formation in ACL reconstruction, **Marinescu Rodica**

18. 25<sup>th</sup> Symposium and Annual Meeting of the International Society for Ceramics in Medicine,Bucharest 2013, **Rodica Marinescu**Transfemoral fixation in soft tissue cruciate ligament reconstruction-composite versus polymeric implant analysis

19. International Conference on „Biomaterials and Medical Devices” (BiomMedDPreoperative planning of multi-planar femur osteotomy using 3D printed customized surgical guides **Rodica Marinescu (Coordonator)**,2014

20. ESSKA 10<sup>th</sup> Congress:Outside-in meniscus suture-5 years follow up, **Marinescu R**,Laptoiu D, Negrusoiu M, 2002 Rome

21. ESSKA 11<sup>th</sup> Congress:High tibial osteotomy is association with operative arthroscopy in the treatment of painful varus knee,**Marinescu R**, Laptoiu D, Negrusoiu M, Simion I, Athens 2004

22. 11<sup>th</sup> ESSKA Congress, Athens 2004, **Marinescu R**, Laptoiu D, Negrusoiu M, Simion I, Arthroscopically assisted ankle arthrodesis

### **National Congress Presentations:**

1. SOROT 2015 **Rodica Marinescu**, Iozefina Botezatu, Dan Lăptoiu, Ștefan Ciumeica, Gilbertina Ștefan. Pitfalls in the therapeutic management of bone tumors associating pathologic fractures SOROT Congress, Bucharest, Romania, October 2015

2. ROMTRANSPLANT 2016 Iozefina Botezatu, Dan Laptoiu, **Rodica Marinescu**, Ștefan Ciumeica, Bogdan Ionita, Andrei Nica Colentina Clinical Hospital Bucharest - **The need for bone allograft in arthroplastic revisions of the hip with bone loss significantly**

3. ROMTRANSPLANT 2020 Dan Laptoiu, F. Tatu, **R Marinescu**, S. Paun, A. Nica - Colentina Clinical Hospital; - **Surgical management of joint knee instability - the role of ligament grafts**

4. ROMTRANSPLANT 2020 Iozefina Botezatu, D. Laptoiu, A. Bunea, **R Marinescu**, M. Sava, A. Nica - Colentina Clinical Hospital; **The role of bone grafts in reconstructive techniques for chronic diabetic foot /**

5. Congres Clubul Regal al Medicilor, **Rodica Marinescu**: 1. History and actual trend in unicompartmental knee replacement; 2. Failures modes in unicompartmental knee and revision difficulties, Bucharest 2019
6. Al IV-lea Congres al Clubului Regal al Medicilor, **Rodica Marinescu**: Optimal placement of tibial component in TKA, Bucharest, 2018
7. SOROT XVI Congres, Dan Laptouiu, **Rodica Marinescu**, Iozefina Botezatu, Gram negative arthritis after knee arthroscopy - case series presentation and literature analysis, Bucharest, October 2016
8. XVI SOROT Congres, **Rodica Marinescu**, Iozefina Botezatu, Dan Laptouiu, Stefan Ciumeica, Gilbertina Stefan, Pitfalls in the therapeutic management of bone tumours associating pathological fractures, Bucharest, October 2016
9. Botezatu I, **Marinescu R**: Arthroereisis technique - current materials and implant design, International Seminar on Biomaterials and Regenerative Medicine BIOREMED 2015, Oradea, September 2015 2457-7758
10. XVIIIth SOROT Congres, Laptouiu D, Botezatu I, Bunea A, **Marinescu R**: Unicompartmental Knee Arthroplasty: Current Indications, Technical Issues and First-Years Results, Bucharest 2019
11. XVIIth SOROT Congres, Two-stage Revision Total Hip Arthroplasty due to Salmonella Infection in a patient with Myasthenia Gravis, 2017
12. Actualitati si perspective in Medicina de calatorie, **Marinescu R**, Botezatu I, Laptouiu D, Stefan G, Ionita B, Volvoreanu D.: Late TKA periprosthetic infections: prevalence, difficulties, solutions, Actualitati si perspective in Bolile infectioase-Medicina de calatorie, 2011, Bucuresti
13. Zilele Stiintifice ale Institutului Matei Bals, Editia a 12-a, Victoria A, Streinu-Cercel A, Rafila A, Predescu V, Negru AR, Munteanu DI, Mihăilescu R, **Marinescu R**, Lupescu O, Dorobăț O, Catana RV, Talapan D, -a 2016: Anaerobes an underdiagnosed cause of prosthesis joint infection,
14. Preoperative planning of multi-planar femur osteotomy using 3D printed customized surgical guides **Rodica Marinescu** (Coordonator), International Conference on „Biomaterials and Medical Devices” (BiomMedD)
15. Total Knee Arthroplasty Revision with Trabecular Tantalum Cones-Review of clinical cases with therapeutic protocol and results, **Rodica Marinescu**, CGabara, A Bunea, D Laptouiu, SOROT National Conference, Sibiu 2018
16. Simpozionul national de Biomateriale”Biomateriale si Aplicatii Medico-Chirurgicale, SNB 2009, Resorbable implant design using medical imaging, D Laptouiu, **R Marinescu**, IAntoniac, M Tarcolea, D Vlasceanu, R Istrate,
17. ROMTRANSPLANT VI 2008, **Marinescu R**, Laptouiu D, Botezatu I, Nica A: The role of osteotendinos allograft in reconstructive knee surgery, Bucharest, 2008

18. ROMTRANSPLANT 2012, **Marinescu R**, Nica A, Laptoiu D, Botezatu I, Ionita B: Cotiloiditis with acetabular protrusion-place of bone allograft, Bucharest 2012

19. The 10th Edition of the Scientific Days of the National Institute for Infectious Diseases "Prof Dr Matei Bals", **Rodica Marinescu.**, Sonication – further progress in the microbiological diagnosis in implant-associated infections, Bucharest 2014

### **Carti publicate:**

- Rodica Marinescu: Chirurgia reparatorie a meniscului-tehnici artroscopice, Editura Universitara Carol Davila, 2003, ISBN 973-7918-32-0.
- Rodica Marinescu, Dan Laptoiu: Chirurgia reparatorie a ligamentului incrucisat anterior-tehnici artroscopice, Editura Universitara Carol Davila, 2004, ISBN 973-7918-95-9

### **Capitole in carti publicate:**

- Clinical Limitations of the Biodegradable Implants Used in Arthroscopy R Marinescu, I Antoniac, in Handbook of Bioceramics and Biocomposites, 1-31, 2014, ISBN 978-3-319-12459-9, Springer Reference
- Ortopedie-Traumatologie, Editura Universitara Carol Davila Bucuresti, 2019- Capitolul: Fracturile membrului inferior, ISBN 978-606-011-064-4

### **Alte activitati:**

European Conference on Orthopedic Biomaterials, ECOB 2015, Bucharest- Rodica Marinescu-Conference Co-Chair

25th Symposium and Annual Meeting of the International Society for Ceramics in Medicine, Bucharets 2013, Rodica Marinescu- member in local Scientific Committte

First SRATS Congress 2016-member of Scientific Committee

Second SRATS Congress 2018-Vice-Chairman of Scientific Committee

Third SRATS Congress 2020-Vice-Chairman of Scientific Committee

Reviewer pentru KSSTA-2020-2021

Reviewer pentru Revista Materiale Plastice-2018-2020

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