Bibliografia di Manuela T. Raimondi

Articoli su rivista internazionale referata

1998

1. Pietrabissa R, Raimondi MT, Di Martino E. Wear of polyethylene cups in total hip arthroplasty: a parametric mathematical model. Medical Engineering & Physics. 1998; 20(3):199-210. ISSN: 1350-4533.

1999

2. Raimondi MT, Pietrabissa R. Modelling evaluation of the testing condition influence on the maximum stress induced in a hip prosthesis during ISO 7206 fatigue testing. Medical Engineering & Physics.1999; 21(5):353-359. ISSN: 1350-4533.

2000

3. Raimondi MT, Pietrabissa R. The in vivo wear performance of prosthetic femoral heads with titanium nitride coating. Biomaterials. 2000; 21(9): 907-913. ISSN: 0142-9612.
4. Raimondi MT, Sassi R, Pietrabissa R. A method for the evaluation of the change in volume of retrieved acetabular cups. Proceedings of the Institution of Mechanical Engineers Part H: Journal of Engineering in Medicine. 2000; 214(6): 577-587. ISSN: 0954-4119.

2001

5. Raimondi MT, Santambrogio C, Pietrabissa R, Raffelini F, Molfetta L. Improved mathematical model of the wear of the cup articular surface in hip joint prostheses and comparison with retrieved components. Proceedings of the Institution of Mechanical Engineers Part H: Journal of Engineering in Medicine. 2001; 215(4):377-91. ISSN: 0954-4119.
6. Raimondi MT, Vena P, Pietrabissa R. Quantitative evaluation of the prosthetic head damage induced by microscopic third-body particles in total hip replacement. Journal of Biomedical Materials research. (Applied Biomaterials), John Wiley & Sons, New York, USA, 2001; 58(4):436-48. ISSN: 1552-4973.

2002

7. Colombo M, Raimondi MT, Villa T, Quaglini V, Pietrabissa R. The biomechanics of intramedullary nailing: a protocol for laboratory testing. Journal of Mechanics in Medicine and Biology. World Scientific Publishing Company, Singapore, 2002, 2(1): 81-97. ISSN: 0219-5194.
8. Caserta S, La Maida GA, Misaggi B, Peroni D, Pietrabissa R, Raimondi MT, Redaelli A. Elastic stabilization alone or combined with rigid fusion in spinal surgery: a biomechanical study and clinical experience based on 82 cases. European Spine Journal. 2002, 11(Suppl.2): S192-S197. ISSN: 0940-6719.
9. Raimondi MT, Boschetti F, Falcone L, Fiore GB, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. Mechanobiology of engineered cartilage cultured under a quantified fluid-dynamic environment. Biomechanics and modeling in mechanobiology. 2002, 1: 69-82. ISSN: 1617-7959.

2004

10. Raimondi MT, Falcone L, Colombo M, Remuzzi A, Marinoni E, Marazzi M, Rapisarda V, Pietrabissa R. A comparative evaluation of chondrocyte/scaffold constructs for cartilage tissue engineering. Journal of Applied Biomaterials & Biomechanics, 2004; 2:55-64. ISSN: 1722-6899
11. Raimondi MT, Boschetti F, Falcone L, Migliavacca F, Remuzzi A, Dubini G. The effect of media perfusion on three-dimensional cultures of human chondrocytes: Integration of

experimental and computational approaches. Biorheology. 2004;41(3-4):401-10. ISSN: 0006-355X.

2005

12. Raimondi MT, Pietrabissa R. Contact pressures at grafted cartilage lesions in the knee. Knee Surgery, Sports Traumatology, Arthroscopy 2005; 13: 444–450. ISSN: 0942-2056. doi 10.1007/s00167-004-0529-1. Scopus 2-s2.0-25444455610
13. Cioffi M, Giordano C, Gusmeroli R, Raimondi MT, Spinelli A, Baranauskas G. Integrating live cells with semiconductor devices: a biocompatibility assay. Journal of Applied Biomaterials & Biomechanics 2005;3(2):112-116. ISSN: 1722-6899, scopus 2-s2.0-28244465011
14. Boschetti F, Cioffi M, Dubini G, Migliavacca F, Raimondi MT. New trends in tissue-engineered cartilage: micro fluid dynamics in 3D engineered cell systems. Journal of Mechanics in Medicine and Biology 2005; 5(3): 455-464. ISSN: 0219-5194. doi 10.1142/S0219519405001564. WOS:000208572900005

2006

15. Cioffi M, Boschetti F, Raimondi MT, Dubini G. Modelling evaluation of the fluid-dynamic microenvironment in tissue-engineered constructs: a micro-CT based model. Biotechnology and Bioengineering 2006; Feb 20;93(3):500-10. ISSN: 0006-3592.
16. Boschetti F, Raimondi MT, Migliavacca F, Dubini G. Prediction of the micro-fluid dynamic environment imposed to three-dimensional engineered cell systems in bioreactors. Journal of Biomechanics 2006; 39:418-25. ISSN: 0021-9290.
17. Galbusera F, Fantigrossi A, Raimondi MT, Sassi M, Fornari M and Assietti R. Biomechanics of the C5-C6 spinal unit before and after placement of a disc prosthesis. Biomechanics and modelling in mechanobiology 2006; Nov;5(4):253-61. ISSN: 1617-7959.
18. Galbusera F, Raimondi MT, Assietti R, Sassi M and Fornari M. Multibody modelling of the cervical spine in the simulation of flexion-extension after disc arthroplasty. Journal of Applied Biomaterials & Biomechanics 2006; 4(2): 110-119. ISSN: 1722-6899
19. Raimondi MT, Moretti M, Cioffi M, Giordano C, Boschetti F, Laganà K and Pietrabissa R. The effect of hydrodynamic shear on 3D engineered chondrocyte systems subject to direct perfusion. Biorheology. 2006;43(3-4):215-22. ISSN: 0006-355X.
20. (Invited review) Baranauskas G, Gusmeroli R, Spinelli AS, Giordano C, Raimondi MT. Cell-based biosensors - current trends of the development. Journal of Applied Biomaterials & Biomechanics. 2006; 4: 125 – 134. ISSN: 1722-6899
21. (Invited review) Raimondi MT. Engineered tissue as a model to study cell and tissue function from a biophysical perspective. Current Drug Discovery Technologies 2006 Dec;3(4):245-68. ISSN: 1570-1638.

2007

22. Fantigrossi A, Galbusera F, Raimondi MT, Sassi M, Fornari M. Biomechanical analysis of cages for posterior lumbar intebody fusion. Medical Engineering & Physics. 2007; Jan 29(1):101-9. ISSN: 1350-4533.
23. Bellini CM, Galbusera F, Giacometti Ceroni R, Raimondi MT. Loss in mechanical contact of cementless acetabular prostheses due to post-operative weight bearing: a biomechanical model. Medical Engineering & Physics 2007 Mar;29(2):175-81. ISSN: 1350-4533.
24. Bellini CM, Galbusera F, Raimondi MT, Mineo GV, Brayda-Bruno M. Biomechanics of the lumbar spine after dynamic stabilization. Journal of Spinal Disorders and Techniques. 2007 Aug;20(6):423-9. ISSN: 1536-0652.

25. Galbusera F, Cioffi M, Raimondi MT, Pietrabissa R. Computational modelling of combined cell population dynamics and oxygen transport in engineered tissue subject to interstitial perfusion. Computer Methods in Biomechanics and Biomedical Engineering. 2007 Aug;10(4):279-87. ISSN: 1025-5842.
26. Bellini CM, Raimondi MT, Grecchi G. Bi-directional distraction in the treatment of micro-orbitism: a case report. Journal of Craniomaxillofacial Surgery. 2007 Jun-Jul;35(4-5):234-40. ISSN: 1010-5182.
27. Bellini CM, Raimondi MT, Accetta R, Mineo G. Locked plating: biomechanics and biology. Techniques in Orthopaedics. 2007. 22(3):167–172. ISSN: 0885-9698.

2008

28. Vaga S, Raimondi MT, Caiani EG, Costa F, Giordano C, Perona F, Zerbi A, Fornari M. Quantitative assessment of intervertebral disc glycosaminoglycan distribution by Gadolinium-enhanced MRI in orthopaedic patients. Magnetic Resonance in Medicine. 2008 Jan; 59(1):85-95. ISSN: 0740-3194, DOI10.1002/mrm.21433
29. Candiani G, Raimondi MT, Aurora R, Laganà K, Dubini G. Chondrocyte response to high regimens of cyclic hydrostatic pressure in three-dimensional engineered constructs. International Journal of Artificial Organs. 2008 Jun;31(6):490-9. ISSN: 0391-3988.
30. Galbusera F, Cioffi M, Raimondi MT. An in silico bioreactor for simulating laboratory experiments in tissue engineering. Biomedical Microdevices. 2008 Aug;10(4):547-54. ISSN: 1387-2176.
31. Galbusera F, Bellini CM, Aziz HN, Raimondi MT, Brayda-Bruno M, Fornari M. Parametric FE mesh generation: application to the cervical spine. Journal of Applied Biomaterials and Biomechanics 2008;6(2): 95-103. ISSN: 1724-6024
32. Laganà K, Moretti M, Dubini G, Raimondi MT. A new bioreactor for controlled application of complex mechanical stimuli for cartilage tissue engineering. Proceedings of the Institution of Mechanical Engineers, Part H, Journal of Engineering in Medicine. 2008. 222(H5):705-715, ISSN 0954-4119, DOI10.1243/09544119JEIM383
33. Galbusera F, Bellini CM, Raimondi MT, Fornari M, Assietti R. Cervical spine biomechanics following implantation of a disc prosthesis. Medical Engineering and Physics. 2008; 30(9):1127-1133, ISSN 1350-4533
34. Raimondi MT, Candiani G, Cabras M, Cioffi M, Laganà K, Moretti M, Pietrabissa R. Engineered cartilage constructs subject to very low regimens of interstitial perfusion. Biorheology. 2008;45(3-4):471-8, ISSN 0006-355X
35. (Invited review) Galbusera F, Bellini CM, Zweig T, Ferguson S, Raimondi MT, Lamartina C, Brayda-Bruno M, Fornari M. Design concepts in lumbar total disc arthroplasty. European Spine Journal. 2008 Dec;17(12):1635-50, ISSN 0940-6719
36. Moretti M, Freed LE, Padera RF, Laganà K, Boschetti F, Raimondi MT. An integrated experimental–computational approach for the study of engineered cartilage constructs subjected to combined regimens of hydrostatic pressure and interstitial perfusion. Bio-Medical Materials and Engineering. 2008;18(4-5):273-8, ISSN 0959-2989

2009

37. Bellini CM, Romeo D, Galbusera F, Taschieri S, Raimondi MT, Zampelis A, Francetti L. Comparison of Tilted and Nontilted Implant-Supported Prosthetic Designs for the Restoration of the Edentulous Mandible: A Biomechanical Study. International Journal of Oral & Maxillofacial Implants. 2009 May-Jun;24(3):511-7, ISSN 0882-2786

38. Vaga S, Raimondi MT, Perona F, Fornari M, Caiani EG. Division scheme optimization for the molecular evaluation of the intervertebral disc by Gadolinium-Enhanced MRI. J Magn Reson Imaging. 2009 Jun;29(6):1443-9, ISSN 1053-1807
39. Vaga S, Brayda-Bruno M, Perona F, Fornari M, Raimondi MT, Petruzzi M, Grava G, Costa F, Caiani EG, Lamartina C. Molecular MR Imaging for the evaluation of the effect of dynamic stabilization on lumbar intervertebral discs. European Spine Journal. 2009 Jun;18 Suppl 1:40-8. ISSN 0940-6719
40. Asnaghi MA, Jungebluth P, Raimondi MT, Dickinson SC, Rees LE, Go T, Cogan TA, Dodson A, Parnigotto PP, Hollander AP, Birchall MA, Conconi MT, Macchiarini P, Mantero S. A double-chamber rotating bioreactor for the development of tissue-engineered hollow organs: From concept to clinical trial. Biomaterials. 2009 Oct;30(29):5260-9. ISSN 0142-9612

2010

41. Di Mascio V, Bellini CM, Galbusera F, Raimondi MT, Brayda-Bruno M, Assietti R. Lumbar total disc replacement: a numerical study. Journal of Applied Biomaterials and Biomechanics. 2010. 8(2):97-101 - ISSN 1722-6899

2011

42. Raimondi MT, Bonacina E, Candiani G, Laganà M, Rolando E, Talò G, Pezzoli D, D'Anchise R, Pietrabissa R, Moretti M. Comparative chondrogenesis of human cells in a 3D integrated experimental-computational mechanobiology model. Biomechanics and Modelling in Mechanobiology. Volume 10, Issue 2 (2011), Page 259-268 ISSN: 1617-7959
43. Sacco R, Causin P, Zunino P, Raimondi MT. A multiphysics/multiscale 2D numerical simulation of scaffold-based cartilage regeneration under interstitial perfusion in a bioreactor. Biomechanics and Modeling in Mechanobiology. Volume 10, Issue 4 (2011), Page 577-589 ISSN: 1617-7959
44. Raimondi MT, Causin P, Mara A, Nava M, Laganà M, Sacco R. Breakthroughs in Computational Modeling of Cartilage Regeneration in Perfused Bioreactors. IEEE Transactions on Biomedical Engineering. 2011. 58(12):3496-3499, ISSN 0018-9294, DOI10.1109/TBME.2011.2163405
45. (Invited review) Asnaghi MA, Candiani G, Farè S, Fiore GB, Petrini P, Raimondi MT, Soncini M, Mantero S. Trends in biomedical engineering: Focus on regenerative medicine . Journal of Applied Biomaterials and Biomechanics 2011; 9 May-Aug;9(2):73-86. ISSN 1722-6899, DOI10.5301/JABB.2011.8562

2012

46. Laganà M, Raimondi MT. A miniaturized, optically accessible bioreactor for systematic 3D tissue engineering research. Biomedical Microdevices. 2012. 14(1):225-234, ISSN 1387-2176, doi 10.1007/s10544-011-9600-0 U-gov 663263
47. Raimondi MT, Eaton SM, Nava MM, Laganà M, Cerullo G, Osellame R. Two-photon laser polymerization: from fundamentals to biomedical application in tissue engineering and regenerative medicine. J Appl Biomater Function Mater 2012, 10(1):55-65 doi 10.5301/JABFM.2012.9278, ISSN 1722-6899,U-gov 663283
48. (Invited Review) Nava MM, Raimondi MT, Pietrabissa R. Controlling self-renewal and differentiation of stem cells via mechanical cues. Journal of Biomedicine and Biotechnology. Epub 2012 Oct 2. 2012:797410, doi 10.1155/2012/797410. ISSN 1110-7243, eISSN 1110-7251

2013

49. Raimondi MT, Balconi G, Boschetti F, Di Metri A, Mohammed SAA, Quaglini V, Araneo L, Galvéz BG, Lupi M, Latini R, Remuzzi A. An opto-structural method to estimate the stress-strain field induced by cell contraction on substrates of controlled stiffness in vitro. J Appl

Biomater Funct Mater. 2013 Dec 16;11(3):e143-50. eISSN 2280-8000, doi 10.5301/JABFM.2012.9773, U-Gov 690822 2013, WOS:000329793600002, Scopus ID 2-s2.0-84891543300

50. Raimondi MT, Eaton SM, Laganà M, Aprile V, Nava MM, Cerullo G, Osellame R. Three-dimensional structural niches engineered via two-photon laser polymerization promote stem cell homing. Acta Biomater 2013, 9(1):4579–84. doi 10.1016/j.actbio.2012.08.022. ISSN 1742-7061. U-gov 679780 2013 PubMed ID: 22922332 Scopus ID 2-s2.0-84870239119 WOS:000313376900011
51. Nava MM, Raimondi MT, Pietrabissa R. A multiphysics 3D model of tissue growth under interstitial perfusion in a tissue-engineering bioreactor. Biomech Model Mechanobiol 2013. 12(6):1169-1179. doi 10.1007/s10237-013-0473-4, ISSN: 1617-7959 Scopus ID 2-s2.0-84896727503. WOS:000325815300008. U-gov ID 758313 (2013)

2014

52. Laganà M, Arrigoni C, Lopa S, Sansone V, Zagra L, Moretti M, Raimondi MT. Characterization of articular chondrocytes isolated from 211 osteoarthritic patients. Cell and Tissue Banking. 2014. 15:59-66. doi 10.1007/s10561-013-9371-3 U-gov 758314 (2014) pre-print ISSN: 1389-9333 Scopus ID 2-s2.0-84875501950, WOS: WOS:000332318700008
53. Nava MM, Raimondi MT, Pietrabissa R. Bio-chemo-mechanical models for nuclear deformation in adherent eukaryotic cells. Biomech Model Mechanobiol. 2014 Oct;13(5):929-43. Doi 10.1007/s10237-014-0558-8, ISSN: 1617-7959. Scopus ID 2-s2.0-84893855968, WOS:000341782900002. U-gov ID 935169 (2014)
54. Raimondi MT, Nava MM, Eaton SM, Bernasconi S, Vishnubhatla KC, Cerullo G, Osellame R. Optimization of femtosecond laser polymerized structural niches to control mesenchymal stromal cell fate in culture. Micromachines 2014, 5, 341-358; Doi 10.3390/mi5020341. ISSN 2072-666X, WOS:000338343700015, Scopus ID 2-s2.0-84902594840.

2015

55. Nava MM, Raimondi MT, Credi C, De Marco C, Turri S, Cerullo G, Osellame R. Interactions between structural and chemical biomimetism in synthetic stem cell niches. Biomedical Materials. 2015 Jan 16;10(1):015012. Doi 10.1088/1748-6041/10/1/015012. Scopus ID 2-s2.0-84924308474. WOS:000350975400013
56. Raimondi MT, Giordano C, Pietrabissa R. Oxygen measurement in interstitially-perfused cellularised constructs cultured in a miniaturized bioreactor. J Appl Biomater Funct Mater 2015; 13(4): e313 - e319. Doi 10.5301/jabfm.5000246. Open access. WOS:000375053900002. Scopus ID 2-s2.0-84951071639. Hdl:11311/972747

2016

57. Nava MM, Fedele R, Raimondi MT. Computational prediction of strain-dependent diffusion of transcription factors through the cell nucleus. Biomech Model Mechanobiol. 2016 Aug;15(4):983-93. doi 10.1007/s10237-015-0737-2. WOS:000380117900015. Scopus ID: 2-s2.0-84945206491. Hdl:11311/999194
58. Raimondi MT, Bertoldi S, Caddeo S, Farè S, Arrigoni C, Moretti M. The effect of polyurethane scaffold surface treatments on the adhesion of chondrocytes subjected to interstitial perfusion culture. Tissue Eng Reg Med. 1 Aug 2016, 13(4):364-374. doi 10.1007/s13770-016-9047-8 WOS:000381286500005 Scopus 2-s2.0-84982806070 Hdl:11311/999370
59. Credi C, De Marco C, Molena E, Nava MM, Raimondi MT, Levi M, Turri S. Direct photo-patterning of hyaluronic acid baits onto a fouling-release perfluoropolyether surface for selective cancer cells capture and immobilization. Mater Sci Eng C Mater Biol Appl. 2016 May; 62:414-

22. doi 10.1016/j.msec.2015.12.063 . Scopus 2-s2.0-84957596580. WOS:000372759100051. Hdl:11311/999204

60. Eghbali H, Nava MM, Mohebbi-Kalhori D, Raimondi MT. Hollow Fiber Bioreactor Technology for Tissue Engineering Applications. International Journal of Artificial Organs. Int J Artif Organs 2016 Jan; 39(1): 1-15. doi 10.5301/ijao.5000466. Scopus ID 2-s2.0-84959271372. WOS:000375382700001. Hdl:11311/999206
61. Tunesi M, Fusco F, Fiordaliso F, Corbelli A, Biella G, Raimondi M.T. Optimization of a 3D dynamic culturing system for in vitro modeling of Frontotemporal Neurodegeneration-relevant pathologic features. Frontiers in aging neuroscience. Front Aging Neurosci. 2016 Jun 22;8:146. doi 10.3389/fnagi.2016.00146. Scopus 2-s2.0-84980407645. WOS:000378534100001. Hdl:11311/999207.
62. Garcia B, Rodriguez Matas JF, Raimondi MT. Modeling of the mechano-chemical behavior of the nuclear pore complex: current research and perspectives. Integr. Biol. 2016, 8(10): 1011-1021 doi 10.1039/c6ib00153j. Scopus 2-s2.0-84991516906. WOS:000386215400001. Hdl:11311/999418
63. Nava MM, Piuma A, Figliuzzi M, Cattaneo I, Bonandrini B, Zandrini T, Cerullo G, Osellame R, Remuzzi A, Raimondi MT. Two-photon polymerized "nichoid" substrates maintain function of pluripotent stem cells when expanded under feeder-free conditions. Stem Cell Research and Therapy. Sept 9, 2016. 7:Article 132. doi 10.1186/s13287-016-0387-z. ISSN: 17576512 Scopus 2-s2.0-84986905981. WOS:000384596900005. Hdl:11311/999428
64. Iannetti L, D'Urso G, Conoscenti L, Cutrì E, Tuan R.S., Raimondi M.T., Gottardi R, Zunino P. Distributed and lumped parameter models for the characterization of high throughput bioreactors. PLOS ONE 11(9):e0162774. Sept 26, 2016. DOI10.1371/journal.pone.0162774. Scopus 2-s2.0-84992166490. WOS:000384167300011. Hdl:11311/1002486

2017

65. Nava MM, Di Maggio N, Zandrini T, Cerullo G, Osellame R, Martin I, Raimondi MT. Synthetic niche substrates engineered via two-photon laser polymerization for the expansion of human mesenchymal stromal cells. J Tissue Eng Reg Med. 2017; 11(10): 2836–2845. doi 10.1002/term.2187. Scopus 2-s2.0-84979076029. WOS:000414287300014. WILEY, 111 RIVER ST, HOBOKEN 07030-5774, NJ USA Hdl:11311/999424
66. Ricci D, Nava MM, Zandrini T, Cerullo G, Raimondi MT, Osellame R. Scaling-Up Techniques for the Nanofabrication of Cell Culture Substrates via Two-Photo Polymerization for Industrial-Scale Expansion of Stem Cells. Materials 2017, 10(1):Article 66. DOI10.3390/ma10010066. Scopus 2-s2.0-85011395294. WOS:000394838800065. ISSN 1996-1944 MDPI, Basel, Switzerland hdl:11311/1045211
67. Sacco R, Causin P, Lelli C, Raimondi MT. A Poroelastic Mixture Model of Mechanobiological Processes in Biomass Growth: Theory and Application to Tissue Engineering. Meccanica Nov 2017. 52(14): 3273:3297. doi 10.1007/s11012-017-0638-9. Scopus 2-s2.0-85013223121. WOS:000414398600002. ISSN: 0025-6455. SPRINGER, VAN GODEWIJCKSTRAAT 30, 3311 GZ DORDRECHT, NETHERLANDS hdl:11311/1045223
68. Eghbali H, Nava MM, Leonardi G, Mohebbi-Kalhori D, Sebastiano R, Samimi A, Raimondi MT. An Experimental-Numerical Investigation on the Effects of the Macroporous Scaffold Geometry on Cell Culture Parameters. Int J Artif Organs 2017; 40(4):185-195. doi 10.5301/ijao.5000554 Scopus 2-s2.0-85018892864 WOS:000401111700008 ISSN 0391-3988 WICHTIG PUBLISHING, 72/74 VIA FRIULI, 20135 MILAN, ITALY hdl:11311/1045237 NICHOID

69. Pavesi A, Tan AT, Koh S, Chia A, Colombo M, Antonecchia E, Miccolis C, Ceccarello E, Adriani G, Raimondi MT, Bertoletti A. A 3D microfluidic model for preclinical evaluation of TCR-engineered T cells against solid tumors. JCI Insight. Jun 2017;2(12):e89762. Doi 10.1172/jci.insight.89762. ISSN 2379-3708 AMER SOC CLINICAL INVESTIGATION INC, 2015 MANCHESTER RD, ANN ARBOR, MI 48104 USA WOS:000403495200002 hdl:11311/1045618
70. Frattini P, Villa C, De Santis F, Meregalli M, Belicchi M, Erratico S, Bella P, Raimondi MT, Lu Q, Torrente Y. Autologous intramuscular transplantation of engineered satellite cells induces exosome-mediated systemic expression of Fukutin-related protein and rescues disease phenotype in a murine model of limb-girdle muscular dystrophy type 2I. Hum Mol Genet. 2017 Oct 1; 26(19):3682-3698. doi 10.1093/hmg/ddx252. ISSN 0964-6906 Scopus 2-s2.0-85030689762 WOS:000411069400003 hdl:11311/1045627
71. Chierchia A, Chirico N, Boeri L, Raimondi I, Riva GA, Raimondi MT, Tunesi M, Giordano C, Forloni G, AlbaniD. Secretome released from hydrogel-embedded adipose mesenchymal stem cells protects against the Parkinson's disease related toxin 6-hydroxydopamine, European Journal of Pharmaceutics and Biopharmaceutics 121 (2017) 113–120, doi 10.1016 /j.ejpb.2017.09.014 WOS:000414621100012. Scopus 2-s2.0-85030665108. hdl:11311/1041836
72. Di Giancamillo A, Deponti D, Raimondi MT, Boschetti F, Gervaso F, Modina S, Mangiavini L, Peretti GM. Comparison between different cell sources and culture strategies for tendon tissue engineering. Journal of Biological Regulators and Homeostatic Agents. 2017 Oct-Dec, 31(4 suppl 1):61-66. ISSN: 0393-974X Wichtig Editore:Via Friuli 72 74, I 20135 Milan Italy Scopus 2-s2.0-85041052350 hdl:11311/1045635

2018

73. Marturano-Kruik A, A.Villasante, K.Yaeger, S. Ambati, A. Chramiec, M.T. Raimondi, G. Vunjak-Novakovic. Biomechanical regulation of drug sensitivity in an engineered model of human tumor. Biomaterials. 2018 Jan;150:150-161. doi 10.1016/j.biomaterials.2017.10.020. ISSN 0142-9612 Elsevier Science Limited:Oxford Fulfillment Center, PO Box 800, Kidlington Oxford OX5 1DX United Kingdom WOS:000415781900012 hdl:11311/1045665
74. Marturano-Kruik A, Nava MM, Yaeger K, Chramiec A, Hao L, Robinson ST, Guo XE, Raimondi MT, Vunjak-Novakovic G. Human bone perivascular niche-on-a-chip for studying metastatic colonization. Proc Natl Acad Sci U S A. 2018 Feb 6;115(6):1256-1261. doi 10.1073/pnas.1714282115. Epub 2018 Jan 23. ISSN: 0027-8424 NATL ACAD SCIENCES, 2101 CONSTITUTION AVE NW, WASHINGTON, DC 20418 USA WOS:000424191300054 Scopus 2-s2.0-85041538504 Cred18-19
75. Raimondi MT, Laganà M, Conci C, Crestani M, Di Giancamillo A, Gervaso F, Deponti D, Boschetti F, Nava MM, Scandone C, Domeneghini C, Sannino A, Peretti GM. Development and biological validation of a cyclic stretch culture system for the ex vivo engineering of tendons. Int J Artif Organs. 2018 Jul;41(7):400-412. doi 10.1177/0391398818774496. Epub 2018 May 20. Cred18-19
76. Garcia A, Jacchetti E, Marotta R, Tunesi M, Rodriguez Matas JF, Raimondi MT. The Effect of Cell Morphology on the Permeability of the Nuclear Envelope to Diffusive Factors. Frontiers in Physiology. Front Physiol. 2018 Jul 13;9:925. doi 10.3389/fphys.2018.00925.
77. D'Amore A, Nasello G, Luketich SK, Denisenko D, Jacobs DL, Hoff R, Gibson G, Bruno A, Raimondi MT and Wagner WR. Meso-scale topological cues influence extracellular matrix production in a large deformation, elastomeric scaffold model. Soft Matter, Oct 2018, 14, 8483. doi 10.1039/c8sm01352g Scopus 2-s2.0-85055833197 WOS:000448948800002 hdl:11311/1128909 Cred18-19

2019

78. Izzo L, Tunesi M, Boeri L, Laganà M, Giordano C, Raimondi MT. Influence of the static magnetic field on cell response in a miniaturized optically accessible bioreactor for 3D cell culture. Biomedical Microdevices (2019) 21:29. https://doi.org/10.1007/s10544-019-0387-8 hdl:11311/1077874
79. Donnaloja F, Jacchetti E, Soncini M and Raimondi MT (2019). Mechanosensing at the Nuclear Envelope by Nuclear Pore Complex Stretch Activation and Its Effect in Physiology and Pathology. Front. Physiol. 10:896. doi 10.3389/fphys.2019. hdl:11311/1094683
80. Zandrini T, Shan O, Parodi V, Cerullo G, Raimondi MT, Osellame R. Multi-foci laser microfabrication of 3D polymeric scaffolds for stem cell expansion in regenerative medicine. Sci Rep. 2019 Aug 13;9(1):11761. doi 10.1038/s41598-019-48080-w. hdl:11311/1099972
81. Raimondi MT, Albani D and Giordano C. An Organ-On-A-Chip Engineered Platform to Study the Microbiota–Gut–Brain Axis in Neurodegeneration. Trends in Molecular Medicine Trends Mol Med. 2019 Sep;25(9):737-740. doi 10.1016/j.molmed.2019.07.006. Epub 2019 Aug 14.
82. Boeri L, Albani D, Raimondi MT and Jacchetti E. Mechanical regulation of nucleocytoplasmic translocation in mesenchymal stem cells: characterization and methods for investigation. Biophysical Reviews. Biophys Rev. 2019 Oct;11(5):817-831. https://doi.org/10.1007/s12551-019-00594-3. Epub 2019 Oct 18. Review. hdl:11311/1111359

2020

83. Conci C, Bennati L, Bregoli C, Buccino F, Danielli F, Gallan M, Gjini E, Raimondi MT. Tissue engineering and regenerative medicine strategies for the female breast. J Tissue Eng Regen Med. 2020 Feb;14(2):369-387. doi: 10.1002/term.2999 Review. hdl:11311/1145018
84. Steimberg N, Bertero A, Chiono V, Dell'Era P, Di Angelantonio S, Hartung T, Perego S, Raimondi MT, Xinaris C, Caloni F, De Angelis I, Alloisio S, Baderna D. iPS, organoids and 3D models as advanced tools for in vitro toxicology. ALTEX. 2020;37(1):136-140. doi 10.14573/altex.1911071 hdl:11311/1146728
85. Boeri L, Jacchetti E, Soncini M, Negro A, Albani D, Raimondi MT. Advantages and limitations of a supernegative GFP in facilitating MyoD intracellular tracking. Methods Appl Fluoresc. 2020 Mar 13;8(2):025007. doi: 10.1088/2050-6120/ab797c. hdl:11311/1136879
86. Donnaloja F, Jacchetti E, Soncini M, Raimondi MT. Natural and Synthetic Polymers for Bone Scaffolds Optimization. Polymers 2020, 12, 905; doi:10.3390/polym12040905. hdl:11311/1134979
87. Raimondi MT, Donnaloja F, Barzaghini B, Bocconi A, Conci C, Parodi V, Jacchetti E, Carelli S. Bioengineering tools to speed up the discovery and preclinical testing of vaccines for SARS-CoV-2 and therapeutic agents for COVID-19. Theranostics. 2020 May 27;10(16):7034-7052. doi: 10.7150/thno.47406. hdl:11311/1137195
88. Rey F, Barzaghini B, Nardini A, Bordoni M, Zuccotti GV, Cereda C, Raimondi MT, Carelli S. Advances in Tissue Engineering and Innovative Fabrication Techniques for 3-D-Structures: Translational Applications in Neurodegenerative Diseases. Cells. 2020 Jul 7;9(7):E1636. doi: 10.3390/cells9071636 hdl:11311/1145027
89. Remuzzi A, Bonandrini B, Tironi M, Longaretti L, Figliuzzi M, Conti S, Zandrini T, Osellame R, Cerullo G, Raimondi MT. Effect of the 3D artificial Nichoid on the morphology and mechanobiological response of mesenchymal stem cells cultured in vitro. Cells 2020, 9, 1873; doi:10.3390/cells9081873. hdl:11311/1144553
90. Rey F, Pandini C, Barzaghini B, Messa L, Giallongo T, Pansarasa O, Gagliardi S, Brilli M, Zuccotti GV, Cereda C, Raimondi MT, Carelli S. Dissecting the Effect of a 3D Microscaffold on the Transcriptome of Neural Stem Cells with Computational Approaches: A Focus on

Mechanotransduction. Int J Mol Sci. 2020 Sep 15;21(18):E6775. doi: 10.3390/ijms21186775. hdl:11311/1146645

91. Parodi V, Jacchetti E, Osellame R, Cerullo G, Polli D and Raimondi MT. (2020) Nonlinear Optical Microscopy: From Fundamentals to Applications in Live Bioimaging. Front. Bioeng. Biotechnol. 8:585363. https://doi.org/10.3389/fbioe.2020.585363 hdl:11311/1147795
92. Parodi V, Jacchetti E, Bresci A. Talone B, Valensise CM, Osellame R, Cerullo G, Polli D and Raimondi MT. Characterization of Mesenchymal Stem Cell Differentiation within Miniaturized 3D Scaffolds through Advanced Microscopy Techniques. Int. J. Mol. Sci. 2020, 21, 8498; doi:10.3390/ijms21228498. MOAB, BEYOND hdl:11311/1151803
93. Donnaloja F, Carnevali F, Jacchetti E, Raimondi MT. Lamin A/C Mechanotransduction in Laminopathies. Cells. 2020 May 24;9(5):1306. doi: 10.3390/cells9051306. hdl:11311/1137194

2021

94. Carelli S, Giallongo T, Rey F, Barzaghini B, Zandrini T, Pulcinelli A, Nardomarino R, Cerullo G, Osellame R, Cereda C, Zuccotti GV, Raimondi MT. Neural precursors cells expanded in a 3D micro-engineered niche present enhanced therapeutic efficacy in vivo. Nanotheranostics 2021; 5(1):8-26. doi:10.7150/ntno.50633. Available from http://www.ntno.org/v05p0008.htm.
95. Jacchetti E, Nasehi R, Boeri L, Parodi V, Negro A, Albani D, Osellame R, Cerullo G, Rodriguez Matas JF, Raimondi MT. The nuclear import of the transcription factor MyoD is reduced in mesenchymal stem cells grown in a 3D micro-engineered niche. Sci Rep 11, 3021 (2021). https://doi.org/10.1038/s41598-021-81920-2 Available from www.nature.com/articles/s41598-021-81920-2 hdl:11311/1161918
96. Perottoni S, Neto NGB, Di Nitto C, Dmitriev RI, Raimondi MT, Monaghan MG. Intracellular label-free detection of mesenchymal stem cell metabolism within a perivascular niche-on-a-chip. Lab on a Chip. Feb 2020. Doi:10.1039/d0lc01034k. hdl:11311/1172862
97. Messa L, Barzaghini B, Rey F, Pandini C, Zuccotti GV, Cereda C, Carelli S, Raimondi MT. Neural Precursor Cells Expanded Inside the 3D Micro-Scaffold Nichoid Present Different Non-Coding RNAs Profiles and Transcript Isoforms Expression: Possible Epigenetic Modulation by 3D Growth. Biomedicines. 2021 Aug 31;9(9):1120. doi: 10.3390/biomedicines9091120. hdl:11311/1187375
98. Rey F, Messa L, Pandini C, Barzaghini B, Micheletto G, Raimondi MT, Bertoli S, Cereda C, Zuccotti GV, Cancello R, Carelli S. Transcriptional characterization of subcutaneous adipose tissue in obesity affected women highlights metabolic dysfunction and implications for lncRNAs. Genomics. 2021 Sep 21;113(6):3919-3934. doi: 10.1016/j.ygeno.2021.09.014. Epub ahead of print. PMID: 34555498.
99. Rey F, Messa L, Pandini C, Maghraby E, Barzaghini B, Garofalo M, Micheletto G, Raimondi MT, Bertoli S, Cereda C, Zuccotti GV, Cancello R, Carelli S. RNA-seq Characterization of Sex-Differences in Adipose Tissue of Obesity Affected Patients: Computational Analysis of Differentially Expressed Coding and Non-Coding RNAs. J Pers Med. 2021 Apr 28;11(5):352. doi: 10.3390/jpm11050352. PMID: 33924951; PMCID: PMC8145808.
100. Rey F, Messa L, Pandini C, Launi R, Barzaghini B, Micheletto G, Raimondi MT, Bertoli S, Cereda C, Zuccotti GV, Cancello R, Carelli S. Transcriptome Analysis of Subcutaneous Adipose Tissue from Severely Obese Patients Highlights Deregulation Profiles in Coding and Non-Coding Oncogenes. Int J Mol Sci. 2021 Feb 17;22(4):1989. doi: 10.3390/ijms22041989. PMID: 33671464; PMCID: PMC7922682.
101. Rey F, Pandini C, Messa L, Launi R, Barzaghini B, Zangaglia R, Raimondi MT, Gagliardi S, Cereda C, Zuccotti GV, Carelli S. α-Synuclein antisense transcript SNCA-AS1 regulates

synapses- and aging-related genes suggesting its implication in Parkinson's disease. Aging Cell. 2021 Dec;20(12):e13504. doi: 10.1111/acel.13504. Epub 2021 Nov 19.

102. Talone B, Bazzarelli M, Schirato A, Dello Vicario F, Viola D, Jacchetti E, Bregonzio M, Raimondi MT, Cerullo G, Polli D. Phototoxicity induced in living HeLa cells by focused femtosecond laser pulses: a data-driven approach. Biomed Opt Express. 2021 Dec 1;12(12):7886-7905. doi: 10.1364/BOE.441225.

103. Ene-Iordache B, Campiglio CE, Raimondi MT, Remuzzi A. Characterization of the Microflow Through 3D Synthetic Niche Microenvironments Hosted in a Millifluidic Bioreactor. Front Bioeng Biotechnol. 2021 Dec 17;9:799594. doi: 10.3389/fbioe.2021.799594.

104. Messa L, Rey F, Pandini C, Barzaghini B, Micheletto G, Raimondi MT, Bertoli S, Cereda C, Zuccotti G, Cancello R, Carelli S. RNA-seq dataset of subcutaneous adipose tissue: Transcriptional differences between obesity and healthy women. Data Brief. 2021 Nov 27;39:107647. doi: 10.1016/j.dib.2021.107647.

2022

105. Giacometti M, Monticelli M, Piola M, Milesi F, Coppadoro LP, Giuliani E, Jacchetti E, Raimondi MT, Ferrari G, Antinori S, Fiore GB, Bertacco R. On-chip magnetophoretic capture in a model of malaria-infected red blood cells. Biotechnol Bioeng. 2022 Jan 5; 119:1129:1141. doi: 10.1002/bit.28030.

106. Lee SWL, Rogosic R, Venturi C, Raimondi MT, Pavesi A, Adriani G. A Human Neurovascular Unit On-a-Chip. Methods Mol Biol. 2022;2373:107-119. doi: 10.1007/978-1-0716-1693-2_7.

107. Garofalo M, Pandini C, Bordoni M, Jacchetti E, Diamanti L, Carelli S, Raimondi MT, Sproviero D, Crippa V, Carra S, Poletti A, Pansarasa O, Gagliardi S, Cereda C. RNA Molecular Signature Profiling in PBMCs of Sporadic ALS Patients: HSP70 Overexpression Is Associated with Nuclear SOD1. Cells. 2022 Jan 15;11(2):293. doi: 10.3390/cells11020293.

108. Conci C, Jacchetti E, Sironi L, Gentili L, Cerullo G, Osellame R, Chirico G, Raimondi MT. A miniaturized imaging window to quantify intravital tissue regeneration within a 3D micro scaffold in longitudinal studies. Adv. Optical Mater. 2022, 2101103. https://doi.org/10.1002/adom.202101103 .

109. Scarian E, Bordoni M, Fantini V, Jacchetti E, Raimondi MT, Diamanti L, Carelli S, Cereda C, Pansarasa O. Patients' Stem Cells Differentiation in a 3D Environment as a Promising Experimental Tool for the Study of Amyotrophic Lateral Sclerosis. Int J Mol Sci. 2022 May 11;23(10):5344. doi: 10.3390/ijms23105344.

110. Musi CA, Colnaghi L, Giani A, Priori EC, Marchini G, Tironi M, Conci C, Cerullo G, Osellame R, Raimondi MT, Remuzzi A, Borsello T. Effect of 3D Synthetic Microscaffold Nichoid on the Morphology of Cultured Hippocampal Neurons and Astrocytes. Cells. 2022 Jun 23;11(13):2008. doi: 10.3390/cells11132008.

111. Merli M, Sardelli L, Baranzini N, Grimaldi A, Jacchetti E, Raimondi MT, Briatico-Vangosa F, Petrini P and Tunesi M (2022), Pectin-based bioinks for 3D models of neural tissue produced by a pH-controlled kinetics. Front. Bioeng. Biotechnol. 10:1032542. doi: 10.3389/fbioe.2022.1032542

2023

112. Rey F, Messa L, Maghraby E, Casili G, Ottolenghi S, Barzaghini B, Raimondi MT, Cereda C, Cuzzocrea S, Zuccotti G, Esposito E, Paterniti I, Carelli S. Oxygen Sensing in Neurodegenerative Diseases: Current Mechanisms, Implication of Transcriptional Response, and Pharmacological Modulation. Antioxid Redox Signal. 2023 Jan;38(1-3):160-182. doi: 10.1089/ars.2022.0046. PMID: 35793106.

113. Testa C, Oliveto S, Jacchetti E, Donnaloja F, Martinelli C, Pinoli P, Osellame R, Cerullo G, Ceri S, Biffo S and Raimondi MT (2023), Whole transcriptomic analysis of mesenchymal stem cells cultured in Nichoid micro-scaffolds. Front. Bioeng. Biotechnol. 10:945474. doi: 10.3389/fbioe.2022.945474. Repository link: https://hdl.handle.net/11311/1228347
114. Rey F, Maghraby E, Messa L, Esposito L, Barzaghini B, Pandini C, Bordoni M, Gagliardi S, Diamanti L, Raimondi MT, Mazza M, Zuccotti G, Carelli S, Cereda C. Identification of a novel pathway in sporadic Amyotrophic Lateral Sclerosis mediated by the long non-coding RNA ZEB1-AS1. Neurobiol Dis. 2023 Jan 31:106030. doi: 10.1016/j.nbd.2023.106030. Epub ahead of print. PMID: 36736597.
115. Marini, M., Nardini, A., Martínez Vázquez, R., Conci, C., Bouzin, M., Collini, M., Osellame, R., Cerullo, G., Kariman, B. S., Farsari, M., Kabouraki, E., Raimondi, M. T., Chirico, G., Microlenses Fabricated by Two-Photon Laser Polymerization for Cell Imaging with Non-Linear Excitation Microscopy. Adv. Funct. Mater. 2023, 2213926. https://doi.org/10.1063/5.0153215
116. Barzaghini B, Carelli S, Messa L, Rey F, Avanzini MA, Jacchetti E, Maghraby E, Berardo C, Zuccotti G, Raimondi MT, Cereda C, Calcaterra V, Pelizzo G. Bone Marrow Mesenchymal Stem Cells Expanded Inside the Nichoid Micro-Scaffold: a Focus on Anti-Inflammatory Response. Regen Eng Transl Med. 2023 Mar 20:1-12. doi: 10.1007/s40883-023-00296-z. Epub ahead of print. PMID: 37363698; PMCID: PMC10027280.
117. Donnaloja F, Limonta E, Mancosu C, Morandi F, Boeri L, Albani D, Raimondi MT. Unravelling the mechanotransduction pathways in Alzheimer's disease. J Biol Eng. 2023 Mar 28;17(1):22. doi: 10.1186/s13036-023-00336-w. PMID: 36978103; PMCID: PMC10045049. Repository link: https://hdl.handle.net/11311/1235086
118. Donnaloja F, Raimond MT, Messa L, Barzaghini B, Carnevali F, Colombo E, Mazza D, Martinelli C, Boeri L, Rey F, Cereda C, Osellame R, Cerullo G, Carelli S, Soncini M, Jacchetti E. 3D photopolymerized microstructured scaffolds influence nuclear deformation, nucleo/cytoskeletal protein organization, and gene regulation in mesenchymal stem cells. APL Bioeng. 1 September 2023; 7 (3): 036112. https://doi.org/10.1063/5.0153215 Repository link: https://hdl.handle.net/11311/1249577
119. Donnaloja F, Izzo L, Campanile M, Perottoni S, Boeri L, Fanizza F, Sardelli L, Jacchetti E, Raimondi MT, Rito LD, Craparotta I, Bolis M, Giordano C, Albani D. Human gut epithelium features recapitulated in MINERVA 2.0 millifluidic organ-on-a-chip device. APL Bioeng. 2023 Sep 19;7(3):036117. doi: 10.1063/5.0144862. PMID: 37736017; PMCID: PMC10511260.

2024

120. Conci C, Sironi L, Jacchetti E, Panzeri D, Inverso D, Martinez Vasquez R, Osellame R, Collini M, Cerullo G, Chirico G, Raimondi MT. In vivo label-free tissue histology through a microstructured imaging window. APL Bioeng. 8, 016102 (2024). https://doi.org/10.1063/5.0165411. Repository link: https://re.public.polimi.it/handle/11311/1258496
121. Oliveto S, Ritter P, Deroma G, Miluzio A, Cordiglieri C, Benvenuti MR, Mutti L, Raimondi MT, Biffo S. The Impact of 3D Nichoids and Matrix Stiffness on Primary Malignant Mesothelioma Cells. Genes (Basel). 2024 Feb 1;15(2):199. doi: 10.3390/genes15020199. PMID: 38397189; PMCID: PMC10887956.
122. Colli C, Masi I, Jacchetti E, Santoni S, Sponchioni M, Colosimo BM, Rosanò L, Raimondi MT, Mauri E, Moscatelli D. Zwitterionic nanoparticles for thermally activated drug delivery in hyperthermia cancer treatment. Nanoscale. 2024 Jul 4;16(26):12635-12649. doi: 10.1039/d4nr00723a. PMID: 38884523; PMCID: PMC11223588.

123. Buccioli G, Testa C, Jacchetti E, Pinoli P, Carelli S, Ceri S, Raimondi MT. The molecular basis of the anticancer effect of statins. Sci Rep. 2024 Aug 31;14(1):20298. doi: 10.1038/s41598-024-71240-6. PMID: 39217242. Repository link: https://re.public.polimi.it/handle/11311/1272229
124. Messa L, Testa C, Carelli S, Rey F, Jacchetti E, Cereda C, Raimondi MT, Ceri S, Pinoli P. Non-Negative Matrix Tri-Factorization for Representation Learning in Multi-Omics Datasets with Applications to Drug Repurposing and Selection. Int J Mol Sci. 2024 Sep 4;25(17):9576. doi: 10.3390/ijms25179576.
125. Ritter P, Oliveto S, Cordiglieri C, Fasciani A, Di Buduo CA, Della Volpe L, Bocconi A, Conci C, Miguel CP, Di Micco R, Balduini A, Raimondi MT, Biffo S. A millifluidic bioreactor allows the long term culture of primary lymphocytes or $CD34^{+}$ hematopoietic cells while allowing the detection of tumorigenic expansion. Front Bioeng Biotechnol. 2024 Oct 2;12:1388312. doi: 10.3389/fbioe.2024.1388312. Repository link: https://hdl.handle.net/11311/1275603
126. Behjat S. Kariman, Alessandra Nardini, Mario Marini, Pablo Roldán-Varona, Claudio Conci, Manuela T. Raimondi, Roberto Osellame, Giulio Cerullo, Giuseppe Chirico, and Rebeca Martínez Vázquez. High dioptric power micro-lenses fabricated by two-photon polymerization. Opt. Express 32(27), 48114-48131 (2024) Repository link: https://hdl.handle.net/11311/1279546

2025

127. Martinelli C, Bocconi A, Milone S, Baldissera T, Cherubin L, Buccioli G, Perottoni S, Conci C, Cerullo G, Osellame R, Chirico G, Jacchetti E, Raimondi MT. A 3D millifluidic model of a dermal perivascular microenvironment on a chip. Lab Chip. 2025 Jan 6. doi: 10.1039/d4lc00898g. Epub ahead of print. PMID: 39757968. https://re.public.polimi.it/handle/11311/1280315
128. Genchi GG, Conci C, Şen Ö, Nardini A, Bartolucci M, Marino A, Martinez Vazquez R, Cerullo G, Osellame R, Petretto A, Raimondi MT, Ciofani G. Two-photon polymerization of miniaturized 3D scaffolds optimized for studies on glioblastoma multiforme in spaceflight-like microgravity conditions. Biofabrication. 2025 Feb 27. doi: 10.1088/1758-5090/adbb21. Epub ahead of print. PMID: 40014921.
129. Nardini, A., Kariman, B. S., Marini, M., Conci, C., Grassi, M., Bouzin, M., Collini, M., Osellame, R., Cerullo, G., Raimondi, M. T., Chirico, G., Martínez Vázquez, R. Microfabrication of Implantable Optics Integrated in a Microstructured Imaging Window for Advanced In Vivo Imaging. J. Vis. Exp. (218), e67975, doi:10.3791/67975 (2025).
130. Jang SY, Hong E, Jo Y, Kim J, Kim JH, Na Y, Yeom CH, Yang YJ, Jacchetti E, Raimondi MT, Park S. Estrogen receptor α regulates SVCT2 protein level in human breast cancer cells. Sci Rep. 2025 Jul 29;15(1):27629. doi: 10.1038/s41598-025-11758-5. PMID: 40731045; PMCID: PMC12307803. https://re.public.polimi.it/handle/11311/1295625
131. Matining V., Colli C., Jacchetti E., Nicoletti G., Rosanò L., Raimondi M.T., Colosimo B.M., Mauri E., Moscatelli D. Droplet-Based Synthesis of Nanogels for Controlled Drug Delivery via Two Photon Polymerization-3D Printed Microfluidic Device. (2025) Advanced Materials Technologies. doi: 10.1002/admt.202500108

Libri (con ISBN)

132. Mantero S, Remuzzi A, Raimondi MT, Ahluwalia A. Fondamenti di ingegneria dei tessuti per la medicina rigenerativa. Pàtron Editore, Bologna, Italia, 2009. ISBN: 9788855530392.
133. Tanzi MC, Bianchi A, Farè S, Mantero S, Raimondi M.T., Visai L. Approccio integrato per la medicina rigenerativa. Ed. da Pàtron Editore, Bologna, Italia, 2013, p.131-151. ISBN: 978-88-555-3241-9.

Capitoli di libri (con ISBN) e Contributi a convegni pubblicati su Atti (con ISBN, >3 pagine)

134. Pietrabissa R, Raimondi MT, Quaglini V, Contro R. Evaluation of acetabular wear in hip joint prostheses. In: Computer Methods in Biomechanics & Biomedical Engineering 2. Ed. da J. Middleton, G.N. Pande, M.L. Jones. Gordon and Breach Science Publishers, 1998, p. 131-8. ISBN: 90-5699-206-6.
135. Colombo M, Quaglini V, Raimondi MT, Levi M, Falcone L, Marazzi M, Marinoni E, Remuzzi A Pietrabissa R. Effects of in vitro culture techniques on the mechanical properties of tissue-engineered cartilage: a rheological study. In: Computer Methods in Biomechanics & Biomedical Engineering 4. Ed. da Middleton J, Shrive NG, Jones ML. University of Wales College of Medicine, UK, 2002, ISBN: 1-903847-09-5.
136. Redaelli A, Soncini M, Vesentini S, Votta E, Vena P, Raimondi MT, Colombo M, Boschetti F. Caratterizzazione biomeccanica dei tessuti. In: Ingegneria dei tessuti biologici. Ed. da R. Pietrabissa, R. Cancedda. Pàtron Editore, Bologna, Italia, 2002, p. 157-182. ISBN: 88-555-2664-2.
137. Raimondi MT, Boschetti F, Migliavacca F, Cioffi M, Dubini G. Micro fluid dynamics in three-dimensional engineered cell systems in bioreactors. In (e-book): Topics in Tissue Engineering, vol.2. Eds. N.Ashammakhi & R.L. Reis. 2005. Pag. 1-26.
138. Boschetti F, Raimondi MT, Migliavacca F, Cioffi M, Pietrabissa R,. Microfuid-dynamics in three-dimensional Engineered cell Systems. In: Mechanics of Biological Tissue, Gerhard A. Holzapfel and Ray W. Ogden (Eds.), Springer, Heidelberg, Germany. 2006. Pag. 153-164. ISBN 978-3-540-25194-1.
139. Raimondi MT, Bridgen DT, Laganà M, Tonnarelli B, Cioffi M, Boschetti F, Wendt D. Integration of experimental and computational microfluidics in 3D tissue engineering. In: Methods in Bioengineering 3D Tissue Engineering. Berthiaume F and. Morgan J Eds. Book series: Methods in Bioengineering (MIB), Yarmush ML and Langer RS Eds, Artech House (Boston, London). 2010. Chapter 14. Pag. 237-242. ISBN 978-1-59693-458-0.
140. Raimondi MT, Causin P, Laganà M, Zunino P, Sacco R. Multiphysics Computational Modeling in Cartilage Tissue Engineering. In: Studies in Mechanobiology, Tissue Engineering and Biomaterials (SMTEB), Gefen A, Ramat A Eds. Volume 10: Computational Modeling in Tissue Enginering. Geris L Ed. Springer Heidelberg New York Dorddrecht London, 2013, Chapter 112, Pag. 267-285, ISSN 1868-2006, ISBN 978-3-642-32562-5, DOI10.1007/8415_2011_112. U-gov 665535 (inserito per 2012 come rivista Stud Mechanobiol Tissue Eng Biomater con ISSN 1868-2006)
141. Raimondi MT, Nava MM, Pietrabissa R. Meccanobiologia in medicina rigenerativa. In: Approccio integrato per la medicina rigenerativa. Ed. da Tanzi MC, Bianchi A, Farè S, Mantero S, Raimondi M.T., Visai L. Pàtron Editore, Bologna, Italia, 2013, p.131-151. ISBN: 978-88-555-3241-9.

2015

142. Nava MM, Fedele R, Raimondi MT. A strain-dependent diffusivity model to study the nuclear import of mechanobiological transcription factors. Proc. 37th Annual International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC). Milan, Italy, 25-29 August 2015. Pag. 1857-1860. ISBN 978-1-4244-9270-1 Hdl:11311/972798 (2015)
143. Nava MM, Fedele R, Raimondi MT. Un modello accoppiato di trasporto passivo di fattori trascrizionali nella cellula eucariota. In: AIMETA 2015 Memorie Estese XXII Congresso dell'Associazione Italiana di Meccanica Teorica e Applicata. A cura di: Gambarotta L, Morro A. ISBN 978-88-97752-55-4. Pag. 357-362. Hdl:11311/972795 (2015)

2016

144. Nava MM, Piuma A, Figliuzzi M, Cattaneo I, Bonandrini B, Zandrini T, Cerullo G, Osellame R, Remuzzi A, Raimondi MT. The effect of physical constraints on the function of cultured embryonic stem cells. In: Abstract eBook, V Congresso Gruppo Nazionale di Bioingegneria, 20-22 Giugno 2016. ISBN 978-88-941906-0-1. Pag. 580-583 Hdl:11311/1015614
145. Boeri L, Tunesi M, Giordano C, Albani D, Raimondi MT. A miniaturized in vitro 3D model to assess the neuroprotective effect of mesenchymal stromal cell secretome on neuroblastoma cells exposed to oxidative stress. In: Abstract eBook, V Congresso Gruppo Nazionale di Bioingegneria, 20-22 Giugno 2016. ISBN 978-88-941906-0-1. Pag. 645-647. Hdl: 11311/1017541
146. Garcia A, Jacchetti E, Rodriguez Matas JF, Raimondi MT. Multiscale numerical model of the strain-based permeability of the nuclear envelope. Proc. of the XIII biannual congress of SIMAI, 13-16 September 2016, Milano, Italy. Eds: Bonaventura L, Formaggia L, Miglio E, Parolini N, Scotti A and Vergara C. ISBN 978-88-6493-035-0. Pag. 737-739. hdl:11311/999411

2017

147. Nava MM, Zandrini T, Cerullo G, Osellame R, Raimondi MT. 3D Stem Cell Niche Engineering via Two-Photon Laser Polymerization. Zuzana Koledova (ed.), 3D Cell Culture: Methods and Protocols, Series: Methods in Molecular Biology, vol. 1612, Part III, Series ISSN 1064-3745 Pages 253-266 © Springer Science+Business Media LLC 2017. Print ISBN 978-1-4939-7019-3. Online ISBN 978-1-4939-7021-6. doi 10.1007/978-1-4939-7021-6_19 . Scopus 2-s2.0-85021365043 No WOS hdl:11311/1045683
148. Iannetti L, D'Urso G, Conoscenti G, Cutrì E, Tuan RS, Raimondi MT, Gottardi R, Zunino P. Distributed and lumped parameter models for the characterization of high throughput bioreactors. Proc. 5th International Conference on Computational and Mathematical Biomedical Engineering (CMBE2017), 10-12 April 2017, Pittsburgh, United States. P. Nithiarasu, A.M. Robertson (Eds.). Zeta Computational Resources Ltd., United States of America. Print ISSN 2227-3085, electronic ISSN 2227-9385, ISBN 978-0-9562914-4-8. Page 1178-1181. No Scopus No WOS hdl:11311/1045705

2022

149. Lee SWL, Rogosic R, Venturi C, Raimondi MT, Pavesi A, Adriani G. A Human Neurovascular Unit On-a-Chip. Methods Mol Biol. 2022; 2373:107-119. doi: 10.1007/978-1-0716-1693-2_7. PMID: 34520009. hdl:11311/1187373

2023

150. Carolina Testa, Sara Pidò, Emanuela Jacchetti, Manuela T. Raimondi, Stefano Ceri, and Pietro Pinoli. 2023. Inference of Synthetically Lethal Pairs of Genes Involved in Metastatic Processes via Non-Negative Matrix Tri-Factorization. In 2023 15th International Conference on Bioinformatics and Biomedical Technology (ICBBT 23), May 26–26, 2023, Xi'an, China. ACM, New York, NY, USA, 7 pages. https://doi.org/10.1145/3473258.3473290 IRIS https://hdl.handle.net/11311/1264717

2024

151. Messa, Letizia; Testa, Carolina; Carelli, Stephana; Rey, Federica; Cereda, Cristina; Raimondi, Manuela Teresa, Ceri Stefano, Pinoli Pietro. Leveraging Non-negative Matrix Tri-Factorization and Knowledge-Based Embeddings for Drug Repurposing: an Application to Parkinson's Disease. In ICBBE'23: Proceedings of the 2023 10th International Conference on Biomedical and Bioinformatics Engineering (ICBBE 23) November 09–12, 2023, Kyoto, Japan. ACM ISBN979-8-4007-0834-3/23/11. https://doi.org/10.1145/3637732.3637783

Contributi a convegni pubblicati su Atti (senza ISBN, oppure con ISBN ma <=3 pagine)

1999

152. Raimondi MT, Pietrabissa R. Finite element investigation on the repeatability of ISO 7206 fatigue testing. In: Proceedings of the 1999 ASME Bioengineering Conference. Ed. da V.K. Goel, R.L. Spilker, G.A. Ateshian, L.J. Soslowski. ASME Publications, New York, USA, 1999, Vol.42, p. 235-6.

2001

153. Raimondi MT, Vena P., Pietrabissa R. A study on the third-body induced roughening of the prosthetic head in total hip replacement. Proceedings of the 2001 ASME Bioengineering Conference. Ed. Da Kamm RD, Schmid-Schonbein GW, Athesian GA, Hefzy MS. ASME Publications, New York, USA, 2001, p.35-36; ISBN: 0-7918-1668-0.

154. Raimondi MT, Vena P., Pietrabissa R. Third-body damage of prosthetic heads in total hip replacement: combined experimental and computational study. Proc. Int. Society of Biomechanics XVIIIth Congress, Int. Society of Biomechanics, 2001; (cd-rom).

155. Raimondi MT, Vena P., Pietrabissa R. Third-body damage of prosthetic heads in total hip replacement: combined experimental and computational study. Proc. Int. Society of Biomechanics XVIIIth Congress, Ed. da Muller R, Gerber H, Stacoff A. Interrepro AG, Munchenstein, CH, 2001, p. 380.

2002

156. Raimondi MT, Boschetti F, Fiore GB, Dubini G, Falcone L, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. Integration of computational and experimental methods in the study of cartilage mechanobiology. Proc. IEEE-EMBS Special Topic Conference on Molecular Cellular and Tissue Engineering, 2002, p.152-153; ISBN: 0-7803-7557-2.

157. Raimondi MT, Colombo M, Quaglini V, Falcone L, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. The potential of fibrin glue to build a biomechanically reliable cartilage graft. Proc. 4th Symp. International Cartilage Repair Society, International Cartilage Repair Society, Belp, CH, 2002. (cd-rom).

158. Boschetti F, Raimondi MT, Fiore GB, Dubini G, Falcone L, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. Computation of the fluid-induced shear stress on bioreactor-cultured 3D cell systems. Proc. IEEE-EMBS-BMES, 2002, p. 845-6; ISBN: 0-7803-7612-9.

159. Raimondi MT, Falcone L, Boschetti F, Fiore GB, Remuzzi A, Marazzi M, Marinoni E, Pietrabissa R. Mechanobiology of engineered cartilage: control of the mechanical environment. Trans. 28th annual meeting, Society for Biomaterials, Minneapolis, MN, USA, 2002, p. 649.

2003

160. Raimondi MT, Colombo M, Falcone L, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. Biomechanical evaluation of chondrocyte-seeded scaffolds for cartilage tissue engineering. Proc. of the 2003 ASME Bioengineering Conference. ASME Publications, New York, USA, 2003; (cd-rom).

161. Raimondi MT. Control and quantification of the mechanobiology of engineered cartilage. Proc. 3rd International Symposium on Mechanobiology of Cartilage and Chondrocyte, European Society on Cell and Tissue Engineering and Therapy, Nancy, France, 2003, p.84-85.

162. Raimondi M.T. A comparative evaluation of chondrocyte-seeded scaffolds for cartilage engineering. Trans. 2nd International Conference on New Biomedical Materials, Cardiff, Wales, UK, April 2003.

163. Boschetti F, Migliavacca F, Raimondi MT, Dubini G. Computation of the shear stress imposed to chondrocytes cultured under dynamic conditions. Tissue Engineering, Mary Ann Liebert Inc., Larchmont, NY, USA, 2003, 9(4):796. ISSN: 1937-3341.

164. Raimondi MT, Falcone L, Remuzzi A, Marinoni E, Marazzi M, Pietrabissa R. The effect of perfusion on three-dimensional cultures of human chondrocytes. Tissue Engineering, Mary Ann Liebert Inc., Larchmont, NY, USA, 2003, 9(4):802. ISSN: 1937-3341.

2004

165. Boschetti F, Raimondi MT, Migliavacca F, Pietrabissa R. Microfluid-dynamics in three dimensional engineered cell systems. Proc. of the IUTAM Symposium on Mechanics of Biological Tissue. 27 June-2 July 2004. Graz (A), pag.58, 2004.

166. Moretti M, Laganà K, Raimondi MT. Experimental studies on the effects of controlled fluid-dynamics on tissue-engineered cartilage using a new perfusion bioreactor. Proc. ETES-TESI, Lausanne, CH, October 2004, pag.28.

167. Cioffi M, Giordano C, Gusmeroli R, Raimondi MT and Spinelli A. Towards integrating the functions of cells with electrical processes. In Proc. The Joint Meeting of Tissue Engineering Society International and European Tissue Engineering Society, Lausanne, Switzerland, 10-13 October 2004, Poster Session p.123.

168. Laganà K, Moretti M, Dubini G, Valentini V and Raimondi MT. Design of a bioreactor for controlled application of complex mechanical stimuli during culture of engineered cartilage. Proc. ETES-TESI, Lausanne, CH, October 2004, pag.124.

169. Cioffi M, Dubini G, Migliavacca F, Boschetti F and Raimondi MT. Modelling evaluation of the fluid-dynamic microenvironment in 3D engineered cell systems. Proc. ETES-TESI, Lausanne, CH, October 2004, pag.189.

2005

170. Boschetti F, Cioffi M, Raimondi MT, Migliavacca F, Dubini G. Computation of the microfluidynamic environment in thickness-perfused scaffolds for cartilage in vitro regeneration. Proc. 51st Annual Meeting of the Orthopaedic Research Society. 2005. P1799 (cd-rom).

171. Raimondi MT, Moretti M, Cioffi M, Laganà K, Boschetti F and Migliavacca F. The effect of fluid-dynamic shear on 3D engineered chondrocyte-cell systems. Proc. 4th international symposium on mechanobiology of cartilage and chondrocyte, Budapest, Hungary - 20th - 22th May 2005. Pag.11.

172. Galbusera F, Fantigrossi A, Raimondi MT, Sassi M, Fornari M, Assetti R. Finite element modeling of the c5-c6 functional spinal unit after arthroplasty. Proc. 21st annual meeting of the cervical spine research society European section. Rome, June 2005. Pag. 27.

173. K. Laganà, M. Moretti, M.T. Raimondi, V. Valentini, C. Giordano, G. Dubini. Development of bioreactors to investigate the mechanobiology of engineered cartilage. Proc. European Society of Biomechanics, Leuven, Belgium, August 2005. Pag. 72-3.

174. Moretti M, Laganà K, Raimondi MT, Valentini V, Giordano C, Dubini G. Mechanical Stimulation of Tissue Engineered Cartilage. Proc. 19th European Conference on Biomaterials, September 11-15, 2005, Sorrento (I). T51 (cd-rom).

175. Giordano C, Raimondi MT, Spinelli A, Cioffi M, Gusmeroli R, Baranauskas G. Biocompatibility of semiconductor chip surface materials. Proc. 19th European Conference on Biomaterials, September 11-15, 2005, Sorrento (I). P393 (cd-rom).

176. Moretti M, Lagana K, Raimondi MT, Giordano C, Valentini V, Dubini G. Bioreactor technology in cartilage tissue engineering. Tissue Engineering, Mary Ann Liebert Inc., Larchmont, NY, USA, 2006, 12 (4): 1011-1011. ISSN: 1937-3341.

2006

177. Cioffi M, Galbusera F, Raimondi MT, Boschetti F, Dubini G. Computational modelling of the mechanical environment within tissue engineered cartilage. III European Conference on

Computational Mechanics. Solids, Structures and Coupled Problems in Engineering. Lisbon, Portugal, 5–8 June 2006 . C.A. Mota Soares , J.A.C. Martins, H.C. Rodriguez, J.A.C. Ambrosio, C.A.B. Pina, C.M. Mota Soares, E.B.R. Pereira, J. Folgado Eds. Springer, The Netherlands, 2006, Pag. 552.ISBN 1-4020-4994-3

178. Raimondi MT, Boschetti F, Cioffi M, Galbusera F, Laganà K, Moretti M, Draghi L, Giordano C, Candiani G, Migliavacca F, Dubini G, Pietrabissa R. Design of micro-structured scaffolds for tissue regeneration in advanced culture systems. Proc. International Conference on Advances in Biomaterials for Drug Delivery and Regenerative Medicine, June 11 – 16, 2006, Capri (I), Pag.52.
179. Pietrabissa R, Boschetti F, Cioffi M, Dubini G, Galbusera F, Gervaso F, Laganà K, Migliavacca F, Pennati G, Raimondi MT and Vena P. Numerical modelling of culture systems for tissue engineering. Proc. International Conference on Advances in Biomaterials for Drug Delivery and Regenerative Medicine, June 11 – 16, 2006, Capri, (I), Pag.62.
180. Vaga S, Raimondi MT, Caiani EG, Costa F, Perona F, Zerbi A, Fornari M. Clinical application of the dGEMRIC protocol for the quantitative assessment of lumbar disc degeneration. E-poster. Proc. IMAST 13th Int. Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006, pag.231.
181. Bellini CM, Galbusera F, Raimodi MT, Brayda-Bruno M. Modeling evaluation of lumbar dynamic stabilisation. E-poster. Proc. IMAST 13th Int. Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006, pag.301.
182. Galbusera F, Raimondi MT, Sassi M, Ortolina A, Fornari M. Lumbar microarthrodesis. A newly developed computer-assisted minimally invasive spinal surgery system (MISS-C). E-poster. Proc. IMAST 13th Int. Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006, P386.
183. Galbusera F., Fantigrossi A., Raimondi MT, Sassi M, Fornari M. Biomechanical analysis of posterior lumbar interbody fusion with stand alone cages. E-poster. Proc. IMAST 13th Int. Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006, P552.
184. Galbusera F, Raimondi MT, Sassi M, Assietti R., Fornari M Cervical total disc replacement as an alternative to fusion: a biomechanical study. E-poster. Proc. IMAST 13th Int. Meeting on Advanced Spine Techniques, Athens, Greece, July 12-15, 2006, P554.
185. Galbusera F, Raimondi MT, Sassi M, Fornari M, Assietti R. Biomechanics of the cervical spine after fusion and arthroplasty. Journal of Biomechanics 2006; Vol.39 Suppl.1, pag.S370. ISSN: 0021-9290.
186. Cioffi M, Galbusera F, Raimondi MT, Boschetti F, Dubini G. Computational modelling of microfluidynamics in bioreactor-cultured cellular constructs. Journal of Biomechanics 2006; Vol.39 Suppl.1, pag.S225. ISSN: 0021-9290.
187. Bellini CM, Galbusera F, Colombini A, Ceroni RG, Raimondi MT. Loss in mechanical contact of cementless acetabular prostheses due to post-operative weight bearing: a biomechanical study. Journal of Biomechanics 2006; Vol.39 Suppl.1, pag.S123. ISSN: 0021-9290.
188. Laganà K, Moretti, M, Raimondi MT, Dubini G. Tissue engineered cartilage development in a perfused high pressure bioreactor. Journal of Biomechanics 2006; Vol.39 Suppl.1, pag.S577. ISSN: 0021-9290.
189. Bellini CM, Galbusera F, Raimondi MT, Brayda-Bruno M. Understanding the lumbar spine dynamic stabilization. Journal of Biomechanics 2006; Vol.39 Suppl.1, pag.S173. ISSN: 0021-9290.

190. Cioffi M, Raimondi MT, Boschetti F, Migliavacca F and Dubini G. 3-D computational micro fluid dynamics in engineered constructs cultured in bioreactors. CELLutions 2006, Aug. 14-17, 2006, Boston, MA (cd-rom).

2007

191. Moretti M, Freed LE, Padera RF, Laganà K, Boschetti F, Raimondi MT. An integrated experimental-computational approach for the study of engineered cartilage constructs subjected to combined regimens of hydrostatic pressare and interstitial perfusion. Proc. of the 4th Symposium on Lorraine program on Cartilage engineering, Nancy, September 26-28, 2007 (cd-rom).

192. Bellini CM, Galbusera F, Lovi A, Grava G, Raimondi MT, Brayda-Bruno M. Posterior interspinous dynamic stabilization of the lumbar spine: a biomechanical study. Regenerative Medicine 2007, 2(5): 593. ISSN: 1746-0751.

193. Galbusera F, Cioffi M, Raimondi MT. Cell population dynamics and oxygen transport in engineered tissue: a coupled Lattice-Boltzmann cellular automata model. Regenerative Medicine 2007, 2(5): 615. ISSN: 1746-0751.

194. Raimondi MT, Candiani G, Cabras MS, Cioffi M, Laganà K, Moretti M. The effect of low regimens of interstitial perfusion on the development of engineered cartilage. Regenerative Medicine 2007, 2(5): 668. ISSN: 1746-0751.

195. Vaga S, Raimondi MT, Caiani EG, Costa F, Fornari M, Perona F. Delayed gadolinium-enhanced magnetic resonance imaging (dGEMRIC) for the quantification of glycosaminoglycan depletion and regeneration in human intervertebral discs. Regenerative Medicine 2007, 2(5): 702. ISSN: 1746-0751

2008

196. Moretti M, Freed LE, Padera RF, Laganà K, Raimondi MT. Test and validation of a bioreactor for the stimulation of engineered cartilage constructs with combined regimens of hydrostatic pressure and interstitial perfusion. Tissue Engineering A 2008, 14(5): 797. ISSN 1937-3341

197. Raimondi MT, Boschetti M, Cioffi M, Galbusera F, Laganà K, Moretti M, Dubini G. Tissue engineering through simulation and experiments. Proc. 8th. World Congress on Computational Mechanics (WCCM8), 5th. European Congress on Computational Methods in Applied Sciences and Engineering (ECCOMAS 2008) June 30 – July 5, 2008 Venezia (I) (cd-rom)

198. Vaga S, Raimondi MT, Caiani EG, Perona F, Fornari M,. Delayed gadolinium-enhanced magnetic resonance imaging (dGEMRIC) for the quantification of glycosaminoglycan depletion and regeneration in human intervertebral discs. March 7-11 Vienna. ECR Book of abstracts, an issue of the European Radiology Supplements 2008: 170. ISSN: 1613-3749

199. E.G. Caiani; S. Vaga; M.T. Raimondi; M. Fornari; F. Perona. Quantitative molecular evaluation of intervertebral disc by gadolinium-enhanced magnetic resonance imaging in orthopedic patients. Proc. Computer Assisted Radiology and Surgery (CARS) 2008. Barcellona, Spagna. 25/6/2008-28/6/2008. Internationanal Journal of computer assisted radiology and surgery 2008; 3(Suppl.1): S284-S285. ISSN: 1861-6410

200. Galbusera F, Cioffi M, Raimondi MT. In silico simulation of tissue engineering experiments. In: Atti del I Congresso Nazionale di Bioingegneria. A cura di Burattini R, Contro R, Dario P, Landini L. Pàtron Editore, Bologna, 2008, p. 413-14. ISBN: 978-88-555-2983-9

201. Moretti M, Freed LE, Padera RF, Laganà K, Raimondi MT. An experimental approach for the study of engineered cartilage constructs subjected to combined regimens of hydrostatic pressure and interstitial perfusion. In: Atti del I Congresso Nazionale di Bioingegneria. A cura di Burattini R, Contro R, Dario P, Landini L. Pàtron Editore, Bologna, 2008, p. 415-16. ISBN: 978-88-555-2983-9

202. Bellini CM, Galbusera F, Raimondi MT, Mineo GV, Brayda-Bruno M. Finite element study of a dynamic stabilization device. In: Atti del I Congresso Nazionale di Bioingegneria. A cura di Burattini R, Contro R, Dario P, Landini L. Pàtron Editore, Bologna, 2008, p. 489-90. ISBN: 978-88-555-2983-9.

2009

203. Raimondi MT, Sacco R, Zunino P, Causin P, Boschetti F, Pietrabissa R. Interpretation of engineered tissue growth observations by means of a multi-physics numerical simulation. Tissue Engineering and Regenerative Medicine 2009: 6(12):S33. ISSN: 1738-2696

204. Talò G, Cecini P, Bonacina E, Raimondi M.T., Moretti M. A new bioreactor concept for an effective screening of the effects of complex biomechanical stimuli on engineered cartilage. Tissue Engineering and Regenerative Medicine 2009: 6(12):S124. ISSN: 1738-2696

205. M.A. Asnaghi, M.T. Raimondi, A.P. Hollander, M.T. Conconi, M.A. Birchall, P. Macchiarini, S. Mantero. Double-chamber rotating bioreactor for hollow organs tissue engineering. Proc. World Congress on Regenerative Medicine. Leipzig 2009. Regenerative Medicine 4(6) Suppl. 2 (2009) S68-69 ISSN 1746-0751

2010

206. P. Causin, M.T. Raimondi, R. Sacco, P. Zunino. Multiscale computational modelling in bioreactor tissue engineering: the biosynthetic response of cartilage cells to nutrient supply and fluid–induced shear stress. ECCM 2010 - IV European Conference on Computational Mechanics, Palais des Congrès, Paris, France, May 16-21, 2010. (cd-rom)

207. Raimondi MT, Bonacina E, Candiani G, Laganà M, Rolando E, Talò G, Pezzoli D, D'Anchise R, Pietrabissa R, Moretti M. Comparative chondrogenesis of human cells in a 3D integrated experimental/computational mechanobiology model. Tissue Engineering and Regenerative Medicine International Society (TERMIS)– EU Meeting -June 2010, Galway, Ireland (cd-rom) ISBN 978-0-9564492-0-7

208. Mantero S., Asnaghi M.A., Candiani G., Farè S., Fiore G.B., Petrini P., Raimondi M.T., Soncini M. Trends in Regenerative Medicine. BioMed@POLIMI Proc 1st Workshop on the Life Sciences at Politecnico di Milano. 2010. Pag. 189-199. ISBN 97888-6493-008-4

209. Raimondi MT, Laganà M, Bridgen D, Wendt D. Development of Enabling Technologies for Regenerative Medicine. BioMed@POLIMI Proc 1st Workshop on the Life Sciences at Politecnico di Milano. 2010. Pag.220-225. ISBN 97888-6493-008-4

2011

210. Laganà M, Mara A, Nava M, Raimondi MT. A 3D Multiphysic Model for the Prediction of Engineered Tissue Growth in Perfused Bioreactors. Annual meeting of the European Chapter of the Tissue Engineering and Regenerative Medicine International Society (TERMIS), Granada (Spain), 6-11 June 2011. Abstract published on Histology and Histopathology 2011. 26(Suppl 1):123. ISSN 0213-3911. Oral presentation. U-Gov ID 633687

211. Raimondi MT. Mechanobiology of cartilage tissue engineering. Annual meeting of the European Chapter of the Tissue Engineering and Regenerative Medicine International Society (TERMIS), Granada (Spain), 6-11 June 2011. Abstract published on Histology and Histopathology 2011. 26(Suppl 1):175. ISSN 0213-3911. Keynote lecture. U-Gov ID 633688

212. Raimondi MT, Balconi G, Di Metri A, Guardiani JA, Boschetti F, Quaglini V, Araneo L, Latini R, Cossu G, Remuzzi A. Effect of matrix stiffness on in vitro differentiation of mesoangioblast stem cells towards the myocardial contractile phenotype. Annual meeting of the European Chapter of the Tissue Engineering and Regenerative Medicine International Society (TERMIS), Granada (Spain), 6-11 June 2011. Abstract published on Histology and Histopathology 2011. 26(Suppl 1):207. ISSN 0213-3911. U-Gov ID 633690

2012

213. V. Aprile; S. M. Eaton; M. Lagana; G. Cerullo; M.T. Raimondi; R. Osellame. Femtosecond laser two-photon polymerization of three-dimensional scaffolds for tissue engineering and regenerative medicine applications. Heisterkamp A; Meunier M; Nolte S. Eds. Frontiers in ultrafast optics: biomedical, scientific, and industrial applications XII. Book Series: Proceedings of SPIE San Francisco, CA Date: JAN 22-25, 2012. 2012 Volume: 8247. Article Number 824708 ISBN 9780819488909 DOI10.1117/12.907847

214. Credi C, De Marco C, Eaton SM, Laganà M, Raimondi MT, Cerullo G, Osellame R, Levi M, Turri S. A microfluidic approach to graft hyaluronic acid onto micrometric scaffold surfaces for engineering stem-cell niches. In: Gyarmati Benjámin Sándor, Sudár András, Szilágyi András (Eds.) Advanced Macromolecular Systems Across the Length Scales: "Smart, Nanostructured Systems for Controlled Molecular Release and Biological Interfaces". Siófok, Hungary, 03/06/2012-06/06/2012. Budapest. Poster-33, pag. 131, ISBN 978-963-313-056-8

215. Raimondi MT, Mechanobiology in the fourth dimension, In: Atti Terzo Congresso del Gruppo Nazionale di Bioingegneria (GNB2012), Roma, 26-29 Giugno 2012, a cura di Cappozzo A, D'Alessio T, Guglielmelli E, Pennestrì E, Salinari S. Pàtron Editore, Bologna 2012, Pag. 1-2. ISBN: 978 88 555 3182-5

216. Lagana M, Nava MM, Raimondi MT. Coupling in vitro and in silico models for systematic 3D tissue engineering research. In: Atti Terzo Congresso del Gruppo Nazionale di Bioingegneria (GNB2012), Roma, 26-29 Giugno 2012, a cura di Cappozzo A, D'Alessio T, Guglielmelli E, Pennestrì E, Salinari S. Pàtron Editore, Bologna 2012, Pag. 1-2. ISBN: 978 88 555 3182-5

217. Nava MM, Lagana M, Raimondi MT, Aprile V, Eaton SM, Cerullo G, Osellame R. Two-photon polymerization for osteo-chondral tissue engineering. In: Atti Terzo Congresso del Gruppo Nazionale di Bioingegneria (GNB2012), Roma, 26-29 Giugno 2012, a cura di Cappozzo A, D'Alessio T, Guglielmelli E, Pennestrì E, Salinari S. Pàtron Editore, Bologna 2012, Pag. 1-2. ISBN: 978 88 555 3182-5

218. Nava MM, Lagana M, Raimondi MT, Aprile V, Eaton SM, Cerullo G, Osellame R. Two-photon polymerization for engineering stem cell niches. In: Atti Terzo Congresso del Gruppo Nazionale di Bioingegneria (GNB2012), Roma, 26-29 Giugno 2012, a cura di Cappozzo A, D'Alessio T, Guglielmelli E, Pennestrì E, Salinari S. Pàtron Editore, Bologna 2012, Pag. 1-2. ISBN: 978 88 555 3182-5

2013

219. M. T. Raimondi, M. M. Nava, R. Bertozzi, A. Bernasconi, S. M. Eaton, G. Cerullo, R. Osellame. Control of Mesenchymal Stromal Cell Colonization Using Synthetic Micro-Niches Engineered Via Two-photon Laser Polymerization. TERMIS-EU 2013, Istambul, Turkey. Abstract Book pag. 486. No ISBN

220. M. M. Nava1, M. T. Raimondi. A Microfluidic Platform for Drug Testing in the Fourth Dimension. TERMIS-EU 2013, Istambul, Turkey. Abstract Book pag. 576. No ISBN

2014

221. Raimondi MT. Bioengineered microenvironments for mesenchymal stem cells. J Tissue Eng Regen Med 2014; 8 (Suppl. 1): 7–8. doi 10.1002/term.1930.

222. Tunesi M, Nava MM, Caterina F, Giordano C, Albani D, Raimondi MT. Microfluidic testing of the neuroprotective effect of mesenchymal stromal cells using a 3D model of Parkinson's disease. J Tissue Eng Regen Med 2014; 8 (Suppl. 1): 68. doi 10.1002/term.1930.

223. Nava MM, Raimondi MT, Cerullo R, Osellame R. Three-dimensional structural niches for studying mesenchymal stromal cell colonization. J Tissue Eng Regen Med 2014; 8 (Suppl. 1): 108. doi 10.1002/term.1930.

224. Tunesi M, Nava MM, Caterina F, Giordano C, Albani D, Raimondi MT. Neuroprotective effect of mesenchymal stromal cells in a 3D model of Parkinson's disease. Proc. GNB 2014, June 25th-28t7th 2014, Pavia Italy. Patron Ed. Bologna. e-book: pag 1-3. ISBN 9788855532754.
225. Nava MM, Raimondi MT, Cerullo R, Osellame R. Synthetic three-dimensional niches to control mesenchymal stromal cell colonization in vitro. Proc. GNB 2014, June 25th-28t7th 2014, Pavia Italy. Patron Ed. Bologna. e-book: pag 1-2. ISBN 9788855532754.

2015

226. Nava MM, Fedele R, Raimondi MT. A strain-dependent diffusion numerical model of transcription factors through the cell nucleus. In: Program & Book of Abstracts. EMBO workshop Stem cell mechanobiology in development and disease. 2015 Ischia, p. 88
227. M Tunesi, A Chierchia, C Giordano, D Albani, MT Raimondi. In Vitro Testing of the Neuroprotective Effect of Mesenchymal Stromal Cells in a 3D Model of Parkinson's Disease TISSUE ENGINEERING PART A (2015) 21, S295-S296
228. Nava MM, Raimondi MT, Fedele R. A strain-dependent cmputational model for the diffusion of transcription factors through the cell nucleus. TISSUE ENGINEERING PART A (2015) 21, S355
229. Raimondi MT, Nava MM, Piuma A, Di Maggio N, Figliuzzi M, Cattaneo I, Zandrini T, Osellame R, Cerullo G, Martin I, Remuzzi A. Structural Nichoids Fabricated by Two-Photon Laser Polymerization Promote Maintenance of Pluripotency During In Vitro Expansion of Adult and Embryonic Stem Cells. TISSUE ENGINEERING PART A (2105) 21, S356-S356 WOS:000360205202486

2016

230. Raimondi MT. Geometric control of cell reprogramming. In: Abstract eBook, V Congresso Gruppo Nazionale di Bioingegneria, 20-22 Giugno 2016. ISBN 978-88-941906-0-1. Pag. 21-22.
231. Garcia A, Marotta R, Tunesi M, Nava MM, Fedele R, Jacchetti E, Rodriguez Matas JF, Raimondi MT. Experimental/computational approach of the nuclear pore complex mechanics. In: Abstract eBook, V Congresso Gruppo Nazionale di Bioingegneria, 20-22 Giugno 2016. ISBN 978-88-941906-0-1. Pag. 688-689.
232. Garcia A, Marotta R, Tunesi M, Nava MM, Fedele R, Jacchetti E, Rodriguez Matas JF, Raimondi MT. Integrated experimental/computational approach of the nuclear pore complex. European Cells and Materials. 2016. 31(Suppl. 1):P232. ISSN 1473-2262
233. Boeri L, Tunesi M, Giordano C, Albani D, Raimondi MT. Engineered in vitro model to assess the neuroprotective effect of mesenchymal stem cell secretome on SH-SY5Y neuroblastoma cells exposed to 6-hydroxydopamine. European Cells and Materials. 2016. 31(Suppl. 1):P50. ISSN 1473-2262
234. Raimondi MT, Nava MM, Di Maggio N, Bonandrini B, Figliuzzi M, Zandrini T, Osellame R, Cerullo G, Remuzzi A, Martin I. Nichoid substrates fabricated by two-photon laser polymerization promote maintenance of function during expansion of adult and embryonic stem cells. European Cells and Materials. 2016. 31(Suppl. 1):P117. ISSN 1473-2262
235. Garcia A, Tunesi M, Nava MM, Jacchetti E, Rodriguez Matas JF, Fedele R, Marotta R, Raimondi MT. Mechanobiological modeling of the nuclear pore complex. Abstract accepted for oral presentation at the World Congress of Computational Mechanics, Seoul, Korea, July 2016.

2017

236. Boeri L, Jacchetti E, Negro A, Albani D, Raimondi MT. Fluorescence live detection of protein nuclear import in mesenchymal stem cells adhering to the “nichoid” nanoengineered culture substrate. European Cells and Materials Vol. 33 Suppl. 2, 2017 (0062). ISSN 1473-2262 (1 page)

237. Boeri L, Chierchia A, Chirico N, Raimondi MT, Giordano C, Forloni G, Albani D. Secretome released from adipose mesenchymal stem cells protects SH-SY5Y cells from oxidative stress and increases sirtuin 3 expression. Clinical Neuropathology, Vol. 36 No. 3/2017: 123. ISSN 0722-5091 (1 page)
238. De Riccardis G, Alexander PG, Raimondi MT, Tuan RS, Gottardi R. A 3D Printed Microfluidic Bioreactor to Engineering Biphasic Construct. TISSUE ENGINEERING PART A (2107) Vol. 23, Issue S1: S6-S7. doi 10.1089/ten.tea.2017.29003.abstracts (1 page)
239. Bonandrini B, Ricci D, Figliuzzi M, Osellame R, Cerullo G, Raimondi MT. Nichoid substrates promote expansion of adult stem cells in the absence of animal-derived components. European Cells and Materials Vol. 33 Suppl. 2, 2017 (P080). ISSN 1473-2262 (1 page)
240. Marturano-Kruik A, Nava MM, Khramiec A, Yeager K, Hao L, Robinson S, Vunjak-Novakovic G. Raimondi MT. Introducing interstitial fluid flow in a bioengineered breast cancer perivascular niche. European Cells and Materials Vol. 33 Suppl. 2, 2017 (P084) ISSN 1473-2262 (1 page)
241. Nava MM, Fedele R, Raimondi MT. computational model of spreading stem cells, coupling mechanical deformation to nuclear membrane permeability to small solutes. European Cells and Materials Vol. 33 Suppl. 2, 2017 (P085) ISSN 1473-2262 (1 page)

2018

242. B. Bonandrini, M. Figliuzzi, S. Conti, T. Zandrini, R. Osellame, G. Cerullo, A. Remuzzi and M.T. Raimondi. Effect of the nichoid substrate on mesenchymal stem cell structure and function. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9.
243. Conci, C.; Jacchetti, E.; Zandrini, T.; Sironi, L.; Collini, M.; Chirico, G.; Cerullo, G.; Osellame, R.; Raimondi, M. T. Miniaturized Imaging Window for Intravital Nonlinear Microscopy: Preliminary Results. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
244. E. Jacchetti; R. Osellame; G. Cerullo; M. T. Raimondi. Effect of nichoid substrates on the morphology of adhering mesenchymal stem cells. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
245. L. Boeri; E. Jacchetti; A. Negro; D. Albani; M. T. Raimondi. An engineered supernegative GFP to track the nuclear import of transcription factors in mesenchymal stem cells. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
246. T. Zandrini; E. Jacchetti; C. Conci; R. Osellame; G. Cerullo; M. T. Raimondi. Nanotechnological challenges in application of two-photon polymerization to biology, pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
247. F. Donnaloja; E. Jacchetti; M. Soncini; M. T. Raimondi. Structure and mechanosensing response of the nuclear pore complex. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
248. V. Parodi; E. Jacchetti; T. Zandrini; R. Osellame; G. Cerullo; M. T. Raimondi. Nuclear internalization kinetics of a permeable fluorescent dye in cell nuclei of different shape. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9
249. Izzo, L.; Tunesi, M.; Marturano-Kruik, A.; Laganà, M.; Giordano, C.; Raimondi, M. T. Organ-on-chip platform based on a Miniaturized Optically Accessible Bioreactor: magnetic characterization of the culture chambers. pp.1-4. In VI Convegno Gruppo Nazionale di Bioingegneria, Milano, June 25-27 2018. Abstract e-book - ISBN:978-88-555342-1-9

250. Izzo, L.; Tunesi, M.; Laganà, M.; Giordano, C.; Raimondi, M. T. A new Miniaturized Optically Accessible Bioreactor to investigate the microbiota-gut-brain axis: magnetic characterization of the chambers. TERMIS World Congress, Kyoto, Japan 2018. Pp1.
251. L. Boeri, E. Jacchetti, A. Negro, D. Albani, M.T. Raimondi. Live Detection of a Fluorescent Myogenic Factor to estimate its Nuclear Import Flow in Mesenchymal Stem Cells growing in the 3D "nichoid" culture substrate. TERMIS World Congress, Kyoto, Japan 2018. Pp1
252. B. Bonandrini, L. Longaretti, M. Figliuzzi, S. Conti, T. Zandrini, R. Osellame, G. Cerullo, A. Remuzzi and M.T. Raimondi. The nichoid culture substrate modulates mesenchymal stromal cell structure and function. TERMIS World Congress, Kyoto (Japan) 2018. Pp1
253. C. Conci, E. Jacchetti, T. Zandrini, M. Tunesi, G. Chirico, G. Cerullo, R. Osellame, M.T. Raimondi. Design and Development of a Miniaturized Imaging Window for Intravital Nonlinear Microscopy. TERMIS World Congress, Kyoto, Japan 2018. Pp1 (ne mancano altri 5)
254. Barbara Bonandrini, Lorena Longaretti, Marina Figliuzzi, Sara Conti, Tommaso Zandrini, Roberto Osellame, Giulio Cerullo, Andrea Remuzzi, Manuela Teresa Raimondi. Effect of the nichoid culture substrate on mesenchymal stromal cell structure and gene expression. Proc. 8th World Congress of Biomechanics, Dublin, Ireland. pp.1-2
255. Gottardi, R., De Riccardis, G., Avolio, M., Nichols, D., Pirosa, A., Alexander, P., Raimondi, M., Tuan, R. A 3D printed microfluidic bioreactor to engineer biphasic construct (Conference Paper). Food, Pharmaceutical and Bioengineering Division 2018 - Core Programming Area at the 2018 AIChE Annual MeetingVolume 2, 2018, Pages 980-981

2019

256. Donnaloja, F.; Jacchetti, E.; Rigoldi, F.; Raimondi, M. T.; Soncini, M. Mechanotransduction at the nuclear pore complex investigated at the molecular level: The role of SUN1. pp.672-672. In eCM Periodical 2019, Collection 3, 2019 TERMIS-EU Abstract
257. Conci C, Jacchetti E, Zandrini T, Sironi L, Collini M, Chirico G, Cerullo G, Osellame R, Raimondi MT. Quantification of the foreign body reaction by means of a miniaturized imaging window for intravital nonlinear microscopy. Biomed Sci and Eng. 2019; 3:106. doi:10.4081/bse.2019.106

2020

258. Jacchetti E, Colombo E, Zandrini T, Osellame R, Cerullo G, Mazza D and Raimondi MT. 3D nichoid substrates affect mesenchymal stem cell morphology and euchromatin organization. Proc VII National conference of bioengineering, 9-11 giugno 2021 Trieste, Pàtron Editore, Bologna, 2020, ISSN 2724-2129

2021

259. Manuela T. Raimondi, Bianca Barzaghini, Alberto Bocconi, Claudio Conci, Chiara Martinelli, Alessandra Nardini, Carolina Testa, Stephana Carelli, Giulio Cerullo, Giberto Chirico, Riccardo Gottardi, Roberto Osellame, Andrea Remuzzi, Matteo Laganà, and Emanuela Jacchetti "Micro structured tools for cell modeling in the fourth dimension", Proc. SPIE 11786, Optical Methods for Inspection, Characterization, and Imaging of Biomaterials V, 117861T (20 June 2021); https://doi.org/10.1117/12.2593332
260. C. Conci, E. Jacchetti, L. Sironi, M. Collini, G. Chirico, G. Cerullo, R. Osellame, M.T. Raimondi. Tissue regeneration imaged in vivo using a miniaturized window for intravital nonlinear microscopy. 26th Congress of the European Society of Biomechanics (ESB), 2021
261. A. Nardini, C. Conci, E. Jacchetti, G. Cerullo, R. Martinez, R. Osellame, G. Ciofani, M.T. Raimondi. Two-photon polymerization of synthetic scaffolds on deformable substrates for microgravity applications. 26th Congress of the European Society of Biomechanics (ESB), 2021.

262. C. Conci, E. Jacchetti, L. Sironi, M. Collini, G. Chirico, G. Cerullo, R. Osellame, M.T. Raimondi. Tissue regeneration imaged in vivo using a Miniaturized Window for Intravital Nonlinear Microscopy. World Chapter of Congress of the Tissue Engineering and Regenerative Medicine (TERMIS), 2021.
263. A. Nardini, C. Conci, E. Jacchetti, G. Cerullo, R. Martinez, R. Osellame, G. Ciofani, M.T. Raimondi. Two-photon polymerization of synthetic scaffolds for microgravity applications by means on deformable substrate. World Chapter of Congress of the Tissue Engineering and Regenerative Medicine (TERMIS), 2021.
264. C.A. Musi, L. Colnaghi, C. Conci, M. Tironi, G. Cerullo, R. Osellame, M.T. Raimondi, A. Remuzzi and T. Borsello. Effect of 3D synthetic microscaffold Nichoid on hippocampal neurons morphology. 3rd annual EUROoCS meeting, 2021.

2022

265. C. Conci, L. Cherubin, M. Laganà, E. Jacchetti, G. Cerullo, R. Osellame, M. T. Raimondi. Computational model of a living chicken embryo to test synthetic eggshell substitutes for innovative vascular drug screening. 9th WORLD CONGRESS OF BIOMECHANICS, 2022.
266. C. Martinelli, C. Conci, E. Jacchetti, G. Cerullo, R. Osellame, G. Chirico, M.T. Raimondi. Development of a combined experimental/computational model of tissue regeneration in the miniaturized optically accessible bioreactor (MOAB). 9th WORLD CONGRESS OF BIOMECHANICS, 2022.
267. C. Conci, L. Sironi, E. Jacchetti, M. Collini, M. Marini, M. Bouzin ,G. Chirico, A. Nardini, G. Cerullo, R. Osellame, M.T. Raimondi. Tissue regeneration imaged in vivo using a miniaturized window for intravital nonlinear microscopy. Focus on Microscopy (FOM), 2022.

2023

268. Martinelli C., Baldissera T., Chirico G., Jacchetti E., Raimondi M.T. - "Modulation of macrophage polarization induced in vitro by 3D microscaffolds" - Tissue Engineering: Part A. Volume 29, Numbers 13,14, 2023 Mary Ann Liebert, Inc.
269. Martinelli C., Grezzi L., Baldissera T., Chirico G., Conci C., Jacchetti E., Raimondi M.T. - "Generation of 3D models of vascularized tissue in a millifluidic optically-accessible bioreactor." - Tissue Engineering: Part A. Volume 29, Numbers 13,14, 2023 Mary Ann Liebert, Inc.
270. Testa C., Jacchetti E., Martinelli C., Pinoli P., Carelli S., Ceri S., Raimondi M.T. - The nichoid micro scaffold as a tool for repurposing "migrastatic" drugs exploiting synthetic lethality - Tissue Engineering: Part A. Volume 29, Numbers 13,14, 2023 Mary Ann Liebert, Inc.
271. E. Jacchetti, T. Baldissera, B. Barzaghini, L. Messa, C. Cereda, S. Carelli, M.T. Raimondi. 3D MICROSTRUCTURED SCAFFOLD GEOMETRY DRIVES MESENCHIMAL STEM CELL PHENOTYPE. Event: ESB-ITA. XII Annual Meeting of the European Society of Biomechanics (ESB-ITA2024) - Torino (Italy) - September 18th – 19th, 2023.
272. Paolo Ritter, Stefania Oliveto, Claudio Conci, Emanuela Jacchetti, Stefano Biffo, Manuela Teresa Raimondi. DESIGN AND VALIDATION OF AN IN VITRO PLATFORM FOR LYMPHOCYTES RECIRCULATION IN CANCER IMMUNOTHERAPY APPLICATIONS. Event: XII Annual Meeting of the Italian Chapter of the European Society of Biomechanics September 18-19, 2023, Turin, Italy.
273. E. Jacchetti, T. Baldissera, B. Barzaghini, L. Messa, C. Cereda, S. Carelli, M.T. Raimondi. 3D PHOTOPOLYMERIZED SCAFFOLD PORE SIZE REGULATES MESENCHYMAL STEM CELL PHENOTYPE. Event: ESBiomech23, 28th Congress of the European Society of Biomechanics (ESB2023) – Maastricht (The Nederlands) July 9th – 12th, 2023.
274. Martinelli C., Grezzi L., Baldissera T., Chirico G., Conci C., Jacchetti E., Raimondi M.T. Development of a computational/experimental model of 3D vascularized tissues. Event:

ESBiomech23, 28th Congress of the European Society of Biomechanics (ESB) – Maastricht (The Nederlands) July 9th – 12th, 2023.

275. Claudio Conci, Leonardo Cherubin, Matteo Laganà, Emanuela Jacchetti, Manuela T. Raimondi. COMPUTATIONAL MODELING of OXYGEN TRANSPORT in A SYNTHETIC EGGSHELL TO optimize the avian embryo model for drug development. Event: ESBiomech23, 28th Congress of the European Society of Biomechanics (ESB) – Maastricht (The Nederlands) July 9th – 12th, 2023.
276. Claudio Conci, Laura Sironi, Emanuela Jacchetti, Davide Panzeri, Donato Inverso, Rebeca Martínez Vázquez, Giulio Cerullo, Roberto Osellame, Maddalena Collini, Giuseppe Chirico, Manuela T. Raimondi. ImagING foreign body reactions in vivo WITH A MINI INVASIVE imaging window.Event: ESBiomech23, 28th Congress of the European Society of Biomechanics (ESB) – Maastricht (The Nederlands) July 9th – 12th, 2023.
277. Raimondi M.T., Bocconi A., Conci C., Jacchetti E., Martinelli C., Nardini A., Testa C. Mechanobiology of cancer progression. Event: First International Conference Math 2 Product (M2P 2023) Emerging Technologies in Computational Science for Industry, Sustainability and Innovation – Taormina (Italy) May 30th - June 1st, 2023.
278. Claudio Conci & Laura Sironi, Emanuela Jacchetti, Davide Panzeri, Donato Inverso, Rebeca Martinez-Vazquez, Giulio Cerullo, Roberto Osellame, Maddalena Collini, Giuseppe Chirico & Manuela Teresa Raimondi. A miniaturised imaging window to guide and image foreign body reactions in vivo. Event: Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting 2023 - Manchester (United Kingdom) March 28th-31st, 2023
279. C. Conci, L. Cherubin, M. Laganà, E. Jacchetti, M. T. Raimondi. Design and prototyping of a synthetic eggshell for the ex ovo engineering of frontier models of microvascular physiopathology and advanced therapeutics. Event: Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting 2023 - Manchester (United Kingdom) March 28th-31st, 2023.
280. E. Jacchetti, M.T. Raimondi. 3D micro-scaffolds as a frontier tool to model the EMT phenotype in cancer cells. Event: issue Engineering and Regenerative Medicine International Society (TERMIS2023) European Chapter Meeting 2023 - Manchester (United Kingdom) March 28th-31st, 2023.
281. Martinelli C., Grezzi L., Baldissera T., Chirico G., Conci C., Jacchetti E., Raimondi M.T. Generation of 3D models of vascularized tissue in a millifluidic optically-accessible bioreactor. Event: Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting 2023 - Manchester (United Kingdom) March 28th-31st, 2023.
282. Martinelli C., Baldissera T., Chirico G., Jacchetti E., Raimondi M.T. Modulation of macrophage polarization induced in vitro by 3D microscaffolds. Event: Tissue Engineering and Regenerative Medicine International Society (TERMIS) European Chapter Meeting 2023 - Manchester (United Kingdom) March 28th-31st, 2023.

2024

283. Claudio Conci, Leonardo Cherubin, Matteo Laganà, Chiara Martinelli, Emanuela Jacchetti, Manuela T. Raimondi. REAL-TIME ANALYSIS OF ANGIOGENESIS IN AVIAN EMBRYOS USING A SYNTHETIC EGGSHELL. doi: 10.1063/5.0165411. Event: XIII Annual Meeting of the Italian Chapter of the European Society of Biomechanics October 3-4, 2024, Pescara, Italy.
284. Bonanno, C., Serpelloni, M., Arricca, M., McMeeking, R. M., & Salvadori, A., "Actin based motility unveiled: How chemical energy is converted into motion," Journal of Mechanics Physics

of Solids, vol. 175, (2023). Event: National congress of the Italian association of theoretical and applied engineering (AIMETA 2024). Naples (Italy), 3 th-5th September, 2024.

285. Claudio Conci, Laura Sironi, Davide Panzeri, Emanuela Jacchetti, Donato Inverso, Rebeca Martinez-Vazquez, Giulio Cerullo, Roberto Osellame, Maddalena Collini, Giuseppe Chirico, Manuela Teresa Raimondi1.AN IMPLANTABLE IMAGING WINDOW FOR GUIDING AND OBSERVING IN VIVO RESPONSES TO FOREIGN BODIES. Event:29th Congress of the European Society of Biomechanics, June 30 – July 3, 2024, Edinburgh, Scotland.

286. C. Conci, L. Cherubin, M. Laganà, C. Martinelli, E. Jacchetti, M.T. Raimondi. A SYNTHETIC EGGSHELL TO STUDY ANGIOGENESIS IN AVIAN EMBRYOS IN REAL TIME., DOI: 10.1063/5.0165411 Event: Focus on Microscopy, Geona, March 24th – 27th, 2024.

287. M.T. Raimondi, G. Cerullo, R. Osellame, E. Jacchetti. Epithelial to Mesenchymal Transition modulation in breast cancer cells: a frontier for new investigation approaches. Event: International conference on Nanoengineering for Mechanobiology (N4M2024). Camogli (Italy),3 rd-7th March, 2024.