

GABRIELE CECCARELLI: Birth 06.08.1982, in Aosta, Italy.

PROFESSIONAL EXPERIENCE: he is actually (from 2012) a **post-doc researcher** at the University of Pavia, at the **Department of Public Health, Experimental Medicine and Forensic, Human Anatomy section Unit**. He obtained the PhD in Bioengineering and Bioinformatic, (2011) with a thesis titled: "In vivo" and "in vitro" analysis of low amplitude, high frequency vibration on murine muscle tissue". He received the degree "cum laude" in Medic and Pharmaceutical Biotechnology at the University of Pavia in 2006. Since April 2011, he is a Lecturer in Human Anatomy for Master degree in Biotechnology and in Motor and Sport activities Science.

RESEARCH AND SCIENTIFIC ACTIVITIES: Basic and translational research • Stem cell research • Tissue engineering • Cell biology • Molecular biology • Scaffolds and biomaterials in maxillo-facial area • Biochemistry • Animal handling • Scientific analysis • Project management • Research & development • Team building • Cross-functional collaboration • Laboratory operations • Presentations • Communications.

TECHNICAL COMPETENCIES: adult stem cell culture • cell-biomaterial interactions • Satellite cell isolation • Eukaryotic cell-line culture • Immunohistochemistry and immunofluorescence • Transgene expression • RNA and DNA extraction • PCR • RT-PCR • Real Time PCR • Protein Extraction and quantification • Western Blot analysis • Co-immunoprecipitation assays • ELISA • Animal handling

h-index: 9 (Google Scholar), 6 (Web Of Science)

REFERENCES

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Total number of Publications: 26 papers in peer Review Journals and 2 book Chapters

1. **Ceccarelli G**, Presta R, Lupi SM, Giarratana N, Bloise N, Benedetti L, Cusella De Angelis, MG, Rodriguez Y Baena R. "Evaluation of Poly(Lactic-co-glycolic) Acid Alone or in Combination with Hydroxyapatite on Human-Periosteal Cells Bone Differentiation and in Sinus Lift Treatment". *Molecules* 2017 Dec 2;22(12). pii: E2109. doi: 10.3390/molecules22122109.IF= 2.8
2. Rodriguez Y Baena R, D'Aquino R, Graziano A, Trovato L, Aloise AC, **Ceccarelli G**, Cusella De Angelis MG, Pelegri AA, Lupi SM. "Autologous Periosteum-Derived Micrografts and PLGA/HA Enhance the Bone Formation in Sinus Lift Augmentation". *Front Cell Dev Biol.* 2017 Sep 27;5:87. doi: 10.3389/fcell.2017.00087. eCollection 2017.
3. **Ceccarelli G**, Benedetti L, Arcari ML, Carubbi C, Galli D. "Muscle Stem Cell and Physical Activity: What Point is the Debate at? *Open Med (Wars).* 2017 Jul 24; 12:144-156. doi: 10.1515/med-2017-0022. IF= 0.294
4. **Ceccarelli G**, Gentile P, Marcarelli M, Balli M, Ronzoni FL, Benedetti L, Cusella De Angelis MG. "In Vitro and In Vivo Studies of Alar-Nasal Cartilage Using Autologous Micro-Grafts: The Use of the

- Rigenera® Protocol in the Treatment of an Osteochondral Lesion of the Nose”. *Pharmaceuticals* (Basel). **2017** Jun 13;10(2). pii: E53. doi: 10.3390/ph10020053.
5. Cova E, Inghilleri S, Pandolfi L, Morosini M, Magni S, Colombo M, Piloni D, Finetti C, **Ceccarelli G**, Benedetti L, Cusella MG, Agozzino M, Corsi F, Allevi R, Mrakic-Sposta S, Moretti S, De Gregori S, Prosperi D, Meloni F. “Bioengineered gold nanoparticles targeted to mesenchymal cells from patients with bronchiolitis obliterans syndrome does not rise the inflammatory response and can be safely inhaled by rodents”. *Nanotoxicology*. 2017 Apr 27:1-12. doi: 10.1080/17435390.2017.1317862. **IF= 7.9**
 6. **Ceccarelli G**, Presta R, Benedetti L, Cusella De Angelis GM, Lupi SM, Y Baena RR. “Emerging Perspectives in Scaffold for Tissue Engineering in Oral Surgery”. *Stem Cells International*, Volume 2017 (2017), Article ID 4585401, <https://doi.org/10.1155/2017/4585401>. **IF= 3.687**
 7. Ronzoni F, **Ceccarelli G**, Perini I, Benedetti L, Galli D, Mulas F, Balli M, Magenes G, Bellazzi R, Angelis GC, Sampaolesi M. Met-Activating Genetically Improved Chimeric Factor-1 Promotes Angiogenesis and Hypertrophy in Adult Myogenesis. *Curr Pharm Biotechnol*. 2017 Feb 1. **IF= 1.8**
 8. De Francesco F, Graziano A, Trovato L, **Ceccarelli G**, Romano M, Marcarelli M, Cusella De Angelis GM, Cillo U, Riccio M, Ferraro GA. A Regenerative Approach with Dermal Micrografts in the Treatment of Chronic Ulcers. *Stem Cell Rev*. 2016 Oct 13. DOI:10.1007/s12015-016-9692-2. **IF= 3.11**
 9. Vercellino M, **Ceccarelli G***, Cristofaro F, Balli M, Bertoglio F, Bruni G, Benedetti L, Avanzini M.A, Imbriani M, Visai L. Nanostructured TiO₂ Surfaces Promote Human Bone Marrow Mesenchymal Stem Cells Differentiation to Osteoblasts. *Nanomaterials* 2016, 6(7), 124; doi: 10.3390/nano6070124. **IF= 2.690.**
 10. D’Aquino R, Trovato L, Graziano A, **Ceccarelli G**, de Angelis GC, et al. Periosteum-derived micro-grafts for tissue regeneration of human maxillary bone. *J TranslSci*, 2016: doi: 10.15761/JTS.1000128.
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 12. Quattrocchi M, Swinnen M, Giacomazzi G, Camps J, Barthélemy I, **Ceccarelli G**, Caluwé E, Grosemans H, Thorrez L, Pelizzo G, Muijtjens M, Verfaillie CM, Blot S, Janssens S, Sampaolesi M. Mesodermal iPSC-derived progenitor cells functionally regenerate cardiac and skeletal muscle. *J Clin Invest*. 2015 Dec 1;125(12):4463-4482. doi: 10.1172/JCI82735. Epub 2015 Nov 16. **IF= 13.2**
 13. **Ceccarelli G**, Graziano A, Benedetti L, Imbriani M, Romano F, Ferrarotti F, Aimetti M, Cusella De Angelis GM. Osteogenic Potential of Human Oral-Periosteal Cells (PCs) Isolated from Different Oral Origin: An In Vitro Study. *J Cell Physiol*. 2015 Jul 23. doi: 10.1002/jcp.25104. **IF= 3.8**
 14. Costamagna D, Berardi E, **Ceccarelli G**, Sampaolesi M. Adult stem cells and skeletal muscle regeneration. *Curr Gene Ther*. 2015 Jun 30. **IF= 2.5**
 15. **Ceccarelli G**, Pozzo E, Scorletti F, Benedetti L, Cusella G, Ronzoni FL, Sahakyan V, Zambaiti E, Mimmi MC, Calcaterra V, Deprest J, Sampaolesi M, Pelizzo G. *J Pediatr Surg*. 2015 Apr 28. pii: S0022-3468(15)00315-2. doi: 10.1016/j.jpedsurg.2015.04.014. **IF= 1.3**
 16. **Ceccarelli G**, Benedetti L, Bloise N, Visai L, Graziano A, Imbriani M, Cusella De Angelis MG. “Building of Bio-complexes in Maxillofacial Tissue Engineering”. *Current Tissue Engineering*, 2015, 4, 30-35. doi: 10.2174/2211542004666150305233815.
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 18. **Ceccarelli G**, Bloise N, Mantelli M, Gastaldi G, Fassina L, De Angelis MG, Ferrari D, Imbriani M, Visai L. “A comparative analysis of the in vitro effects of pulsed electromagnetic field treatment on

osteogenic differentiation of two different mesenchymal cell lineages". *Biores Open Access*. 2013 Aug;2(4):283-94. doi: 10.1089/biores.2013.0016

19. Prè D, **Ceccarelli G**, Visai L, Benedetti L, Imbriani M, Cusella De Angelis MG, Magenes G. "High-Frequency Vibration Treatment of Human Bone Marrow Stromal Cells Increases Differentiation toward Bone Tissue". *Bone Marrow Res*. 2013;2013:803450. doi: 10.1155/2013/803450. Epub 2013 Mar 25.
20. **Ceccarelli G**, Ronzoni F, Quattrocelli M, Galli D, Benedetti L, Cusella De Angelis MG, Sampaolesi M. "Mononucleated cells to regenerate skeletal muscle syncytial tissues". *J Stem Cell Res Ther* S11:002. doi: 10.4172/2157-7633.S11-002.
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Participation in more than 20 national and international conferences, workshops and courses.

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