

CV

Maria Addolorata Mariggio'

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Education and Qualifications:

(2002) Ph.D. in Cellular and Molecular Biology and Pathology, University of Perugia, Perugia, Italy

(1993) Master Degree in Biochemistry and Clinical Chemistry, University of Perugia, Perugia, Italy

(1989) Degree in Biological Sciences, University of Perugia, Perugia, Italy

Employment and Academic Ranks:

(01 October 2018 to date) Full Professor of Physiology, University "G. d'Annunzio" of Chieti - Pescara, Italy

(01 February 2006 to 30 September 2018) Associate Professor of Physiology, University "G. d'Annunzio" of Chieti - Pescara, Italy

(01 November 2001 to 31 January 2006) Assistant Professor of Physiology, University "G. d'Annunzio" of Chieti - Pescara, Italy

(1996) Research Fellow at Advanced Biomedical Technologies "G. d'Annunzio" University of Chieti-Pescara.

Memberships in Scientific Societies

2009- Founding member, StemTeCh Group

2007- Italian Society of Sports and Motor Sciences

2006- Italian Society of Space Biomedicine and Biotechnology

2004- International Institute of Myology

2000- Italian Society of Neuroscience (SINS)

1998- Italian Society of Physiology (SIF)

Editorial activity:

- Guest Editor of the Special Issue "Advances in Space Biology: Cell Behaviour in Microgravity" in the Journal: Applied Sciences (ISSN 2076-3417), 2019-2020.

- Invited Reviewer: Acta Physiologica, Neuroscience, Brain Research Bulletin, Journal of Neuroscience Research, International Journal of Developmental Neuroscience, Cellular Physiology and Biochemistry, International Journal of Biochemistry & Cell Biology, Biochimica et Biophysica Acta – Biomembranes, International Journal of Molecular Sciences, Journal of Cellular Physiology, Neural Regeneration Research, Chinese Journal of Physiology, General Physiology and Biophysics, Tissue and cells, Peptides, Journal of Molecular Medicine, Cancer Gene Therapy, Archives of Dermatological Research, American Journal of Medical Sciences, Pharmacological Research, Purinergic Signalling, Journal of Psychology of Sport & Exercise, Medicine & Science in Sports & Exercise, Sports Medicine, Free Radical Biology and Medicine, Journal of Physiology and Pharmacology, African Journal of Biotechnology, Bioelectromagnetics, International Journal of Molecular Sciences, International Journal of Physical Sciences, International Journal of Radiation Biology, Journal of Trace Elements Medicine and Biology, PlosONE, Military Medical Research, Grant to ETH Zurich Research Commission, National grants from MIUR (PRIN, SIR), Progetti Università dell'Insubria, Progetto Università di VERONA - Valutazione Ricerca di Base 2017

Scopus Parameters with date (H-index, citations): H-index: 24; citations 1773
(<https://www.scopus.com/authid/detail.uri?authorId=24468661500>, accessed March 23, 2020)

Funded Projects:

- 2014-2018 Manager of the WP “Cellular adaptive responses to microgravity: relationship between cell shape and mitochondrial activity. Analyses of the cell oxidative status and intracellular calcium”, into the project “SHAPE, A NEW THEORETICAL FRAMEWORK OF THE MICROGRAVITY-CELL INTERACTION” (Scientific PI: Ing A. Palombo) funded by Agenzia Spaziale Italiana (ASI) (ASI n° 2014-018-R.O.)

- 2011-12 Manager of the unit 2 “Facilities for cellular studies in microgravity and magnetic fields (ELF-EMFs) conditions”, in the project Genomics, Proteomics and Metabolomics in space (GPM) (PI: Prof. A. Gulino), funded by Agenzia Spaziale Italiana (ASI).

Peer-Reviewed Publications (total):

Full list at links: <https://ricerca.unich.it/cris/rp/rp03784#.XjxEQLfmofp>, <http://orcid.org/0000-0001-5306-7143>

Most Significant Publications (n 10):

1. Morabito C, Lanuti P, Caprara GA, Marchisio M, Bizzarri M, Guarnieri S, **Mariggiò MA**. Physiological Responses of Jurkat Lymphocytes to Simulated Microgravity Conditions. *Int J Mol Sci*. 2019 Apr 17;20(8). pii: E1892. doi: 10.3390/ijms2008189
2. Alavian KN, Li H, Collis L, Bonanni L, Zeng L, Sacchetti S, Lazrove E, Nabili P, Flaherty B, Graham M, Chen Y, Messerli SM, **Mariggiò MA**, Rahner C, McNay E, Shore GC, Smith PJ, Hardwick JM, Jonas EA. Bcl-xL regulates metabolic efficiency of neurons through interaction with the mitochondrial F1FO ATP synthase. *Nat Cell Biol*. 2011 Sep 18;13(10):1224-33. doi: 10.1038/ncb2330. Erratum in: *Nat Cell Biol*. 2011 Nov;13(11):1383. PubMed PMID: 21926988; PubMed Central PMCID: PMC3186867.
3. **Mariggiò MA**, Falone S, Morabito C, Guarnieri S, Mirabilio A, Pilla R, Bucciarelli T, Verratti V, Amicarelli F. Peripheral blood lymphocytes: a model for monitoring physiological adaptation to high altitude. *High Alt Med Biol*. 2010 Winter;11(4):333-42. doi: 10.1089/ham.2009.1097. PubMed PMID: 21190502.
4. Morabito C, Rovetta F, Bizzarri M, Mazzoleni G, Fanò G, **Mariggiò MA**. Modulation of redox status and calcium handling by extremely low frequency electromagnetic fields in C2C12 muscle cells: A real-time, single-cell approach. *Free Radic Biol Med*. 2010 Feb 15;48(4):579-89. doi: 10.1016/j.freeradbiomed.2009.12.005. Epub 2009 Dec 11. PubMed PMID: 20005945.
5. Belia S, Santilli F, Beccafico S, De Feudis L, Morabito C, Davi G, Fanò G, **Mariggiò MA**. Oxidative-induced membrane damage in diabetes lymphocytes: effects on intracellular Ca²⁺ homeostasis. *Free Radic Res*. 2009 Feb;43(2):138-48. doi: 10.1080/10715760802629588. PubMed PMID: 19115119.
6. Guarnieri S, Pilla R, Morabito C, Sacchetti S, Mancinelli R, Fanò G, **Mariggiò MA**. Extracellular guanosine and GTP promote expression of differentiation markers and induce S-phase cell-cycle arrest in human SH-SY5Y neuroblastoma cells. *Int J Dev Neurosci*. 2009 Apr;27(2):135-47. doi: 10.1016/j.ijdevneu.2008.11.007. Epub 2008 Dec 6. PubMed PMID: 19111604.
7. **Mariggiò MA**, Morabito C, Guarnieri S, Gentile A, Kolkova K, Fanò G. IgIII (270-280)-fragment-like H2N-DDSDEEN-COOH peptide modulates N-CAM expression via Ca²⁺-dependent ERK signaling during "in vitro neurogenesis". *Peptides*. 2008 Sep;29(9):1486-97. doi: 10.1016/j.peptides.2008.05.009. Epub 2008 May 18. PubMed PMID: 18573569.
8. Cellini L, Grande R, Di Campli E, Di Bartolomeo S, Di Giulio M, Robuffo I, Trubiani O, **Mariggiò MA**. Bacterial response to the exposure of 50 Hz electromagnetic fields. *Bioelectromagnetics*. 2008 May;29(4):302-11. doi: 10.1002/bem.20391. PubMed PMID: 18175330.

9. Pietrangelo T, Guarnieri S, Fulle S, Fanò G, **Marigliò MA**. Signal transduction events induced by extracellular guanosine 5' triphosphate in excitable cells. *Purinergic Signal*. 2006 Nov;2(4):633-6. doi: 10.1007/s11302-006-9021-3. Epub 2006 Jul 26. PubMed PMID: 18404466; PubMed Central PMCID: PMC2096655.
10. Fanò G, Biocca S, Fulle S, **Marigliò MA**, Belia S, Calissano P. The S-100: a protein family in search of a function. *Prog Neurobiol*. 1995 May;46(1):71-82. Review. PubMed PMID: 7568910.

Peer-Reviewed Publications (last 10 years):

1. Diomede F, Marconi GD, Guarnieri S, D'Attilio M, Cavalcanti MFXB, **Marigliò MA**, Pizzicannella J, Trubiani O. A Novel Role of Ascorbic Acid in Anti-Inflammatory Pathway and ROS Generation in HEMA Treated Dental Pulp Stem Cells. *Materials (Basel)*. 2019 Dec 27;13(1). pii: E130. doi: 10.3390/ma13010130.
2. Carluccio M, Zuccarini M, Ziberi S, Giuliani P, Morabito C, **Marigliò MA**, Lonardo MT, Adinolfi E, Orioli E, Di Iorio P, Caciagli F, Ciccarelli R. Involvement of P2X7 Receptors in the Osteogenic Differentiation of Mesenchymal Stromal/Stem Cells Derived from Human Subcutaneous Adipose Tissue. *Stem Cell Rev Rep*. 2019 Aug;15(4):574-589. doi: 10.1007/s12015-019-09883-6.
3. Morabito C, Lanuti P, Caprara GA, Marchisio M, Bizzarri M, Guarnieri S, **Marigliò MA**. Physiological Responses of Jurkat Lymphocytes to Simulated Microgravity Conditions. *Int J Mol Sci*. 2019 Apr 17;20(8). pii: E1892. doi: 10.3390/ijms20081892.
4. Lazzarini R, Guarnieri S, Fulgenzi G, **Marigliò MA**, Graciotti L, Martiniani M, Orciani M, Specchia N, Di Primio R. Mesenchymal stem cells from nucleus pulposus and neural differentiation potential: a continuous challenge. *J Mol Neurosci*. 2018 Nov 22. doi: 10.1007/s12031-018-1216-x.
5. Di Baldassarre A, D'Amico MA, Izzicupo P, Gaggi G, Guarnieri S, **Marigliò MA**, Antonucci I, Corneo B, Sirabella D, Stuppia L, Ghinassi B. Cardiomyocytes Derived from Human Cardiopoietic Amniotic Fluids. *Sci Rep*. 2018 Aug 13;8(1):12028. doi: 10.1038/s41598-018-30537-z. PMID: 30104705
6. De Rocco D, Pompili B, Castellani S, Morini E, Cavinato L, Cimino G, **Marigliò MA**, Guarnieri S, Conese M, Del Porto P, Ascenzioni F. Assembly and Functional Analysis of an S/MAR Based Episome with the Cystic Fibrosis Transmembrane Conductance Regulator Gene. *Int J Mol Sci*. 2018 Apr 17;19(4). pii: E1220. doi: 10.3390/ijms19041220. PMID: 29673202
7. C Morabito, S Guarnieri, A Catizone, C Schiraldi, G Ricci, **MA Marigliò**. Transient increases in intracellular calcium and reactive oxygen species levels in TCam-2 cells exposed to microgravity. *Sci Rep*. 2017 Nov 15;7(1):15648. doi: 10.1038/s41598-017-15935-z. PMID: 29142208
8. Totani L, Plebani R, Piccoli A, Di Silvestre S, Lanuti P, Recchiuti A, Cianci E, Dell'Elba G, Sacchetti S, Guarnieri S, **Marigliò MA**, Mari VC, Anile M, Venuta F, Del Porto P, Moretti P, Priolella M, Mucilli F, Marchisio M, Pandolfi A, Evangelista V, Romano M. Mechanisms of endothelial cell dysfunction in cystic fibrosis. *Biochim Biophys Acta*. 2017 Aug 25. pii: S0925-4439(17)30293-4. doi: 10.1016/j.bbadis.2017.08.011. [Epub ahead of print] PMID: 28847515
9. Morabito C, Steimberg N, Rovetta F, Boniotti J, Guarnieri S, Mazzoleni G, **Marigliò MA**. Extremely Low-Frequency Electromagnetic Fields Affect Myogenic Processes in C2C12 Myoblasts: Role of Gap-Junction-Mediated Intercellular Communication. *Biomed Res Int*. 2017;2017:2460215. doi: 10.1155/2017/2460215. Epub 2017 May 21. PMID: 28607928
10. Capasso L, D'Anastasio R, Guarnieri S, Viciano J, **Marigliò MA**. Bone natural autofluorescence and confocal laser scanning microscopy: Preliminary results of a novel useful tool to distinguish between forensic and ancient human skeletal remains. *Forensic Sci*

- Int. 2017 Mar;272:87-96. doi: 10.1016/j.forsciint.2017.01.017. Epub 2017 Jan 22. PMID: 28129584
11. Caprara GA, Morabito C, Perni S, Navarra R, Guarnieri S, **Marigliò MA**. Evidence for Altered Ca²⁺ Handling in Growth Associated Protein 43-Knockout Skeletal Muscle. *Front Physiol.* 2016 Oct 26;7:493. PMID: 27833566
 12. Trubiani O, Guarnieri S, Diomedea F, **Marigliò MA**, Merciaro I, Morabito C, Cavalcanti MF, Cocco L, Ramazzotti G. Nuclear translocation of PKC α isoenzyme is involved in neurogenic commitment of human neural crest-derived periodontal ligament stem cells. *Cell Signal.* 2016 Nov;28(11):1631-41. doi: 10.1016/j.cellsig.2016.07.012. Epub 2016 Jul 28. PMID: 27478064
 13. Cataldi A, Gallorini M, Di Giulio M, Guarnieri S, **Marigliò MA**, Traini T, Di Pietro R, Cellini L, Marsich E, Sancilio S. Adhesion of human gingival fibroblasts/*Streptococcus mitis* co-culture on the nanocomposite system Chitlac-nAg. *J Mater Sci Mater Med.* 2016 May;27(5):88. doi: 10.1007/s10856-016-5701-x. Epub 2016 Mar 12. PubMed PMID: 26970770.
 14. Frazzini V, Guarnieri S, Bomba M, Navarra R, Morabito C, **Marigliò MA**, Sensi SL. Altered Kv2.1 functioning promotes increased excitability in hippocampal neurons of an Alzheimer's disease mouse model. *Cell Death Dis.* 2016 Feb 18;7:e2100. doi: 10.1038/cddis.2016.18. PubMed PMID: 26890139.
 15. Morabito C, Lanuti P, Caprara GA, Guarnieri S, Verratti V, Ricci G, Catizone A, Marchisio M, Fanò-Illic G, **Marigliò MA**. Responses of peripheral blood mononuclear cells to moderate exercise and hypoxia. *Scand J Med Sci Sports.* 2016 Oct;26: 1188–1199. doi: 10.1111/sms.12557. [Epub ahead of print] PubMed PMID: 26432186
 16. Morabito C, D'Alimonte I, Pierdomenico L, Pipino C, Guarnieri S, Caprara GA, Antonucci I, Ciccarelli R, Marchisio M, Pandolfi A, **Marigliò MA**. Calcitonin-induced effects on amniotic fluid-derived mesenchymal stem cells. *Cell Physiol Biochem.* 2015;36(1):259-73. doi: 10.1159/000374069. Epub 2015 May 4. PubMed PMID: 25967965.
 17. Morabito C, Steimberg N, Mazzoleni G, Guarnieri S, Fanò-Illic G, **Marigliò MA**. RCCS bioreactor-based modelled microgravity induces significant changes on in vitro 3D neuroglial cell cultures. *Biomed Res Int.* 2015; 2015:754283. doi:10.1155/2015/754283. Epub 2015 Jan 13. PubMed PMID: 25654124; PubMedCentral PMCID: PMC4309310.
 18. Pipino C, Pierdomenico L, Di Tomo P, Di Giuseppe F, Cianci E, D'Alimonte I, Morabito C, Centurione L, Antonucci I, **Marigliò MA**, Di Pietro R, Ciccarelli R, Marchisio M, Romano M, Angelucci S, Pandolfi A. Molecular and phenotypic characterization of human amniotic fluid-derived cells: a morphological and proteomic approach. *Stem Cells Dev.* 2015 Jun 15;24(12):1415-28. doi:10.1089/scd.2014.0453. Epub 2015 Mar 11. PubMed PMID: 25608581.
 19. Lanuti P, Serafini F, Pierdomenico L, Simeone P, Bologna G, Ercolino E, Di Silvestre S, Guarnieri S, Canosa C, Impicciatore GG, Chiarini S, Magnacca F, **Marigliò MA**, Pandolfi A, Marchisio M, Di Giammarco G, Miscia S. Human Mesenchymal Stem Cells Reendothelialize Porcine Heart Valve Scaffolds: Novel Perspectives in Heart Valve Tissue Engineering. *Biores Open Access.* 2015 Jun 1;4(1):288-97. doi: 10.1089/biores.2015.0019. eCollection 2015.
 20. **Marigliò MA** and Fanò-Illic G. The effects of simulated microgravity on the human nervous system: The proposal of a three-dimensional glia–neuron co-culture cell model. *Science Proceedings* 2015; 2:e892. doi: 10.14800/sp.892.
 21. Neri G, Pugliese M, D'Orazio F, Mastronardi V, Di Nicola M, Morabito C, Guarnieri S, **Marigliò MA**. Hearing, vestibular reactivity and postural stability after 21-day period at high altitude. *Sport Sci Health* 2014, 10:119-126.
 22. Caprara GA, Perni S, Morabito C, **Marigliò MA**, Guarnieri S. Specific association of growth-associated protein 43 with calcium release units in skeletal muscles of lower vertebrates. *Eur J Histochem.* 2014 Dec 5;58(4):2453. doi:10.4081/ejh.2014.2453. PubMed PMID: 25578978.

23. Guarnieri S, Morabito C, Belia S, Barberi L, Musarò A, Fanò-Illic G, **Mariggio MA**. New insights into the relationship between mIGF-1-induced hypertrophy and Ca²⁺ handling in differentiated satellite cells. *PLoS One*. 2014 Sep 17;9(9):e107753. doi: 10.1371/journal.pone.0107753. eCollection 2014. PubMed PMID: 25229238; PubMed Central PMCID: PMC4168228.
24. Di Tomo P, Pipino C, Lanuti P, Morabito C, Pierdomenico L, Sirolli V, Bonomini M, Miscia S, **Mariggio MA**, Marchisio M, Barboni B, Pandolfi A. Calcium Sensing Receptor Expression in Ovine Amniotic Fluid Mesenchymal Stem Cells and the Potential Role of R-568 during Osteogenic Differentiation. *PLoS One*. 2013 Sep 9;8(9):e73816. doi: 10.1371/journal.pone.0073816. PubMed PMID: 24040082; PubMed Central PMCID: PMC3767786.
25. Dinicola S, **Mariggio MA**, Morabito C, Guarnieri S, Cucina A, Pasqualato A, D'Anselmi F, Proietti S, Coluccia P, Bizzarri M. Grape seed extract triggers apoptosis in Caco-2 human colon cancer cells through reactive oxygen species and calcium increase: extracellular signal-regulated kinase involvement. *Br J Nutr*. 2013, 25:1-13. [Epub ahead of print] PubMed PMID: 23433299.
26. Delli Pizzi S, Rossi C, Di Matteo V, Esposito E, Guarnieri S, **Mariggio MA**, Franciotti R, Caulo M, Thomas A, Onofrj M, Tartaro A, Bonanni L. Morphological and metabolic changes in the nigro-striatal pathway of synthetic proteasome inhibitor (PSI)-treated rats: a MRI and MRS study. *PLoS One*. 2013;8(2):e56501. doi: 10.1371/journal.pone.0056501. Epub 2013 Feb 19. PubMed PMID: 23431380; PubMed Central PMCID: PMC3576393.
27. Guarnieri S, Morabito C, Paolini C, Boncompagni S, Pilla R, Fanò-Illic G, **Mariggio MA**. Growth associated protein 43 is expressed in skeletal muscle fibers and is localized in proximity of mitochondria and calcium release units. *PLoS One*. 2013;8(1):e53267. doi: 10.1371/journal.pone.0053267. Epub 2013 Jan 7. PubMed PMID: 23308181; PubMed Central PMCID: PMC3538766.
28. Di Pietro N, Di Tomo P, Di Silvestre S, Giardinelli A, Pipino C, Morabito C, Formoso G, **Mariggio MA**, Pandolfi A. Increased iNOS activity in vascular smooth muscle cells from diabetic rats: potential role of Ca(2+)/calmodulin-dependent protein kinase II delta 2 (CaMKIIδ(2)). *Atherosclerosis*. 2013 Jan;226(1):88-94. doi: 10.1016/j.atherosclerosis.2012.10.062. Epub 2012 Nov 8. PubMed PMID:23177014.
29. Sinjari B, Guarnieri S, Diomede F, Merciaro I, **Mariggio MA**, Caputi S, Trubiani O. Influence of titanium laser surface geometry on proliferation and on morphological features of human mandibular primary osteoblasts. *J Biol Regul Homeost Agents*. 2012 Jul-Sep;26(3):505-13. PubMed PMID: 23034270.
30. Alavian KN, Dworetzky SI, Bonanni L, Zhang P, Sacchetti S, **Mariggio MA**, Onofrj M, Thomas A, Li H, Mangold JE, Signore AP, Demarco U, Demady DR, Nabili P, Lazrove E, Smith PJ, Gribkoff VK, Jonas EA. Effects of dexpramipexole on brain mitochondrial conductances and cellular bioenergetic efficiency. *Brain Res*. 2012 Mar 29;1446:1-11. doi: 10.1016/j.brainres.2012.01.046. Epub 2012 Jan 28. PubMed PMID: 22364637.
31. Pasqualato A, Palombo A, Cucina A, **Mariggio MA**, Galli L, Passaro D, Dinicola S, Proietti S, D'Anselmi F, Coluccia P, Bizzarri M. Quantitative shape analysis of chemoresistant colon cancer cells: correlation between morphotype and phenotype. *Exp Cell Res*. 2012 Apr 15;318(7):835-46. doi:10.1016/j.yexcr.2012.01.022. Epub 2012 Feb 10. PubMed PMID: 22342954.
32. Bonomini M, Giardinelli A, Morabito C, Di Silvestre S, Di Cesare M, Di Pietro N, Sirolli V, Formoso G, Amoroso L, **Mariggio MA**, Pandolfi A. Calcimimetic R-568 and its enantiomer S-568 increase nitric oxide release in human endothelial cells. *PLoS One*. 2012;7(1):e30682. doi: 10.1371/journal.pone.0030682. Epub 2012 Jan 25. PubMed PMID: 22295103; PubMed Central PMCID: PMC3266284.

33. Alavian KN, Li H, Collis L, Bonanni L, Zeng L, Sacchetti S, Lazrove E, Nabili P, Flaherty B, Graham M, Chen Y, Messerli SM, **Mariggiò MA**, Rahner C, McNay E, Shore GC, Smith PJ, Hardwick JM, Jonas EA. Bcl-xL regulates metabolic efficiency of neurons through interaction with the mitochondrial F1FO ATP synthase. *Nat Cell Biol.* 2011 Sep 18;13(10):1224-33. doi: 10.1038/ncb2330. Erratum in: *Nat Cell Biol.* 2011 Nov;13(11):1383. PubMed PMID: 21926988; PubMed Central PMCID: PMC3186867.
34. Del Porto P, Cifani N, Guarnieri S, Di Domenico EG, **Mariggiò MA**, Spadaro F, Guglietta S, Anile M, Venuta F, Quattrucci S, Ascenzioni F. Dysfunctional CFTR alters the bactericidal activity of human macrophages against *Pseudomonas aeruginosa*. *PLoS One.* 2011;6(5):e19970. doi: 10.1371/journal.pone.0019970. Epub 2011 May 18. PubMed PMID: 21625641; PubMed Central PMCID: PMC3097223.
35. Orciani M, Morabito C, Emanuelli M, Guarnieri S, Sartini D, Giannubilo SR, Di Primio R, Tranquilli AL, **Mariggiò MA**. Neurogenic potential of mesenchymal-like stem cells from human amniotic fluid: the influence of extracellular growth factors. *J Biol Regul Homeost Agents.* 2011 Jan-Mar;25(1):115-30. PubMed PMID: 21382281.
36. Morabito C, Bosco G, Pilla R, Corona C, Mancinelli R, Yang Z, Camporesi EM, Fanò G, **Mariggiò MA**. Effect of pre-breathing oxygen at different depth on oxidative status and calcium concentration in lymphocytes of scuba divers. *Acta Physiol (Oxf).* 2011 May;202(1):69-78. doi: 10.1111/j.1748-1716.2010.02247.x. Epub 2011 Mar 1. PubMed PMID: 21199400.
37. Morabito C, Guarnieri S, Fanò G, **Mariggiò MA**. Effects of acute and chronic low frequency electromagnetic field exposure on PC12 cells during neuronal differentiation. *Cell Physiol Biochem.* 2010;26(6):947-58. doi: 10.1159/000324003. Epub 2011 Jan 4. PubMed PMID: 21220925.
38. Mariggiò MA, Falone S, Morabito C, Guarnieri S, Mirabilio A, Pilla R, Bucciarelli T, Verratti V, Amicarelli F. Peripheral blood lymphocytes: a model for monitoring physiological adaptation to high altitude. *High Alt Med Biol.* 2010 Winter;11(4):333-42. doi: 10.1089/ham.2009.1097. PubMed PMID: 21190502.
39. Orciani M, **Mariggiò MA**, Morabito C, Di Benedetto G, Di Primio R. Functional characterization of calcium-signaling pathways of human skin-derived mesenchymal stem cells. *Skin Pharmacol Physiol.* 2010;23(3):124-32. doi: 10.1159/000270383. Epub 2009 Dec 23. PubMed PMID: 20051713.
40. Morabito C, Rovetta F, Bizzarri M, Mazzoleni G, Fanò G, **Mariggiò MA**. Modulation of redox status and calcium handling by extremely low frequency electromagnetic fields in C2C12 muscle cells: A real-time, single-cell approach. *Free Radic Biol Med.* 2010 Feb 15;48(4):579-89. doi: 10.1016/j.freeradbiomed.2009.12.005. Epub 2009 Dec 11. PubMed PMID: 20005945.