

**SABATA MARTINO**  
**Ricercatore Universitario Confermato SSD BIO11**

**CURRICULUM VITAE**

*Birt: 16.12.1963*  
*City: Mesoraca (KR)*  
*Citizenship: Italian*  
*Residence: Perugia (PG)*  
*Strada Perugia-S.Marco, n.81/I, int. 23C, 06131- Perugia, Italy*  
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**Education**

- 1988 Degree in Biological Sciences. Thesis: "Isoenzymes of  $\beta$ -hexosaminidase from HL-60: biochemical characterization and relationship with the processes of cell differentiation." at the Department of Experimental Medicine and Biochemical Sciences, course of Applied Biochemistry, University of Perugia.
- 1989 Qualification to the profession of Biologist degree. University of Perugia (DPR 980/82)
- 1996 PhD in "Biology and Cellular and Molecular Pathology" at University of Perugia. Thesis: "Subcellular localization, processing, internalization and regulation  $\beta$ -hexosaminidase in the cell line HL60"

**AWARDS**

- 1997 "5<sup>th</sup> EUROPEAN AWARD ON GENE THERAPY" for the project; "Development of a gene therapy strategy for Tay-Sachs disease", (Associazione Malattie Rare Mauro Baschirotto).
- 2002 Royal Society AWARD for the project: "Directed Hexa Gene Transfer Therapy For Tay-Sachs Disease Provides A Wide Brain Distribution Of The  $\beta$ -Hexosaminidase A And Restores The GM2 Ganglioside Metabolism. 16-17 october, London,(UK)
- 2008 Prof. Luciano Belli AWARD for the project "Micropatterned hydrogenated amorphous carbon guides mesenchymal stem cells towards neuronal differentiation."
- 2013 Prize "ROOTS" (IIIA Edition) granted by the Municipality of Mesoraca

**SCHOLARSHIP**

- 1990 Erasmus Scholarship to attend the training course: "Monoclonal Antibodies", held in Amsterdam. (June 1990)
- 1993 Scholarship in the CIP ERASMUS (ICP 2078/13, between the University of Perugia, Paris and London) for a period of study for a year in London at the Division of Life Science at King's College, University of London.

**SCIENTIFIC POSITIONS**

1991 (gen)	Fellow- MURST (Ministero della Ricerca Scientifica e Tecnologica italiano) at Division of Life Science, King's College, University of London, J.L. Stirling laboratories.
1991 (nov) -1995	Ph.D student at Univeristy of Perugia and Division of Life Science, King's College, University of London, J.L. Stirling laboratories.
1995-1997	Post-doc at Department of Cellular and Molecular Biology, Univeristy of Perugia
1997-2002	Post-doc at TIGET (Telethon Institute for Gene Therapy)-HSR, Milano; Stem Reaserch Institute_HSR, Milan and Department of Biochemical Sciences and Molecular Biotechnologies, University of Perugia
2003-september	Group Leader at Department of Biochemical Sciences and Molecular Biotechnologies, University of Perugia.
2003-2004	(wk) Contractor EEC, with duties of Group Leader at the Department of Biochemistry and Molecular Biotechnology of the University of Perugia
2005-present	Reasercher at University of Perugia, SSD BIO/11, Molecular Biology
2007-present	Assistant Professor of Molecular Biology at University of Perugia
2014-Jan-present	National Scientific Habilitation as Professor II in SSD BIO /13, Applied Biology

#### **SCIENTIFIC SKILLS**

- Lysosomal enzymes: enzyme activity, protein expression, gene regulation, including microRNAs.
- Development of stem cell/gene therapy translational medicine approach for genetic neurodegenerative diseases (e.g. Lysososoal Storage Disorders; Alzheimer's disease)
- Development of stem cell/biomaterial for regenerative translational medicine applications: molecula mechanisms that activated by biomaterials modulate the stem cell fate.

#### **EDITORIAL POSITIONS**

2000 –present	Referee of Human Gene Therapy, Gene Therapy, Journal of Neurochemistry, FEBS.Letter, Faseb Journal, Nanomedicine, Material Science; ACS Applied Materials & Interface; Nanomaterials; Stem cell international
2011-present	Guest Editor of Recent Patents on Drug Delivery & Formulation journal for the special issue "Recent patents on stem cell and biomedical applications" ( <a href="#">Bentham Science Publishers</a> ).
2012-present	Editorial Member of Journal of Biocatalysis & Biotransformation, International Jounal of Stem cell transplantation
2014-present	Referre of PRIN and FIRB projects granted by Repubblica Italian Educational Ministryù
2015-present	Refere of ELA project granted by ELA - Association Européenne contre les Leucodystrophies

#### **ACCADEMIC POSITIONS**

2003-present	Ph.D committie member. PhD in "Molecular Biology and Biotechnology" University of Perugia
2003-2005	Professor of Molecula Biology II, Biological Science, University of Perugia
2004-2010	Professor of Molecula Biology II, LS Moleclar and Biomedical Science, University of Perugia
2004 –2007	Professor of Molecula Biology for "Tissue and Cell Transplant", International Master of Botechnologies, University of Perugia
2005-present	Assistant Professor, subject area BIO11, University of Perugia. Rector Prot. 0022160
2005-2010	Professor of Molecular cell Biology, and of Recombinant Technologies, LT Biological Science University of Perugia
2006-2010	Professor of Biochemistry and Laboratory of Biochemistry, Biotechnology, University of Perugia

2010-2014	Professor of Advanced Molecular Biology, LM Applied Biomolecular Science, University of Perugia
2014-present	Professor of Molecular Biology, LT Biological Sciences, Department of Chemistry, Biology and Biotechnologies, University of Perugia
2014-present	Professor of Cell Biology, LT Biotechnology, Department of Chemistry, Biology and Biotechnologies, University of Perugia.
2015-present	Professor of Advanced Molecular Biology, LM Biomolecular and Environmental Science, University of Perugia
2013-present	Ph.D committee member. PhD in "Biotechnology", University of Perugia
2014-present	Teaching Committee Member of LT-Biological Sciences and LM- Biomolecular Science and Environmental
2015-present	Committee Member of Quality for Biotechnology and for Master of Molecular and Biotechnology Industry
2016-present	Member of Research Committee for the Department of the Departments of Chemistry, Biology, Biotechnology, University of Perugia.
2003-present	Member of the examining committees: Molecular Biology of the Cell, Recombinant Technology, Applied Biochemistry and Molecular Biology II, Molecular Biology II (VO), Biochemistry and Laboratory of Biochemistry, Biochemical Methods, Molecular Biology, Advanced Molecular Biology

**Perugia, 29,3,2016**

**Dr.ssa Sabata Martino  
Assistant Professor of Molecular Biology  
SSD BIO11**

## ELENCO DELLE PUBBLICAZIONI

1. Emiliani C., **Martino S.**, Stirling J.L. and Orlacchio A. (1991)  $\beta$ -N-Acetyl-Hexosaminidase in leukaemic cells. In: *Molecular basis of human cancer* (NATO-ASI Life Science series) By Plenum Publ.Co.Limited, pp.177-188.
2. Emiliani C., **Martino S.**, Orlacchio A., Vezza R., Nenci G.G., Gresele P. (1995) Platelet glycohydrolase activities: characterization and release. *Cell Biochemistry and Function*, 13, 31-39. **IF. 1.651**
3. **Martino S.**, Emiliani C., Orlacchio A., Hosseini R., Stirling J.L. (1995)  $\beta$ -N-Acetyl-Hexosaminidase A and S have sub-cellular distribution in HL60 cells. *Biochimica.Biophysica.Acta*, 1243, 489-495. **IF. 4.663**
4. Emiliani C., **Martino S.**, Stirling J.L., Maras B. and Orlacchio A. (1995) Partial sequence of the purified protein confirms the identity of cDNA coding for human lysosomal  $\beta$ -Mannosidase. *Biochemical J.*, 305, 363-365 **IF. 5.016**
5. Emiliani C., **Martino S.**, Stirling J.L. and Orlacchio A. (1995) Influence of cell differentiation and protein kinase activation on sub-cellular distribution of  $\beta$ -N-Acetyl-Hexosaminidase in HL60 cells. *Physiological Chemistry & Physics & Medical NMR*. 272, 369-376 **IF. 1.151**
6. **Martino S.**, Emiliani C., Tabilio A., Falzetti F., Stirling J.L. and Orlacchio A. (1997) Distribution of active  $\beta$  and  $\alpha$  subunits of  $\beta$ -N-Acetyl-Hexosaminidase as a function of leukaemic cell types. *Biochimica Biophysica.Acta*, 1335 (1-2), 5-15. **IF. 4.663**
7. Orlacchio A., **Martino S.**, Sarchielli P., Gallai V., Emiliani C. (1998)  $\beta$ -N-Acetyl-Hexosaminidase in peripheral blood lymphocytes and monocytes in the different forms and stages of multiple sclerosis. *Journal of Neurochemistry*. 71 (3) 1168-1176. **IF. 4.337**
8. **Martino S.**, Emiliani C., Tancini B., Cavalieri C., Dolcetta D., Consiglio A., Trojani A., Orlacchio A., Bordignon C., G.M. Severini. (1998) Towards a gene therapy approach for Tay-Sachs disease. In "VII Telethon Convention", 78-80.
9. Severini G.M., Consiglio A., **Martino S.**, Cusella G., Benaglia G., Dolcetta D., Trojani A., Sidoli M.C., Wrabetz L., Marchesini S., Bordignon C. (1998). Restoration of normal lysosomal function in MLD oligodendrocytes through transduced C2C12 conditioned medium. In "VII Telethon Convention", 83-84.
10. Consiglio A., Quattrini A., **Martino S.**, Bensadoun J.C., Dolcetta D., Trojani A., Benaglia G., Marchesini S., Cestari V., Oliverio A., Bordignon C., and Naldini L. (2001) In vivo gene therapy of Metachromatic Leukodystrophy by lentiviral vectors: correction of neuropathology and protection against learning impairments in affected mice. *Nature Medicine*, 7 (3), 310-316. **IF. 25.43**
11. **Martino S.**, C.Emiliani, B.Tancini, G.M.Severini, V.Chigorno, C.Bordignon, S.Sonnino, and A.Orlacchio. Absence of cross-correction in tay-sachs cells: implication in gene therapy. (2002). *Journal of Biological Chemistry*, 277, 20177-84. **IF. 5.328**
12. **Martino S.**, C. Cavalieri, C. Emiliani, D. Dolcetta, M.G. Cusella De Angelis, V. Chigorno, G.M. Severini, K. Sandhoff C. Bordignon, S. Sonnino and A. Orlacchio. (2002) Restoration of the GM2 ganglioside metabolism in bone marrow-derived stromal cells from Tay-Sachs disease animal model. *Neurochemical Research*, 27, 793-800. **IF. 2.608**
13. Dolcetta D., Perani L., Givogri M.I., Galbiati F., Orlacchio A., **Martino S.**, Roncarolo M.G. and Bongarzone E. (2004) Analysis of galactocerebrosidase activity in the mouse brain by a new histological staining method. *Journal of Neuroscience Research*. 77(3),462-4 **IF. 2.954**
14. **Martino S.**, Consiglio A., Cavalieri C., Tiribuzi R., Costanzi E., Severini G. M., Emiliani C., Bordignon C., Orlacchio A. (2005) Expression and purification of a human, soluble Arylsulfatase A for Metachromatic Leukodystrophy enzyme replacement therapy. *Journal of Biotechnology*, 25;117(3):243-51 **IF. 2.97**
15. **Martino S.**, Marconi P., Tancini B., Dolcetta D., Cusella De Angelis M.G., Montanucci P., Bregola G., Sandhoff K, Bordignon C., Emiliani C., Manservigi R., Orlacchio A.. (2005). A direct gene transfer strategy via brain internal capsule reverses the biochemical defect in Tay-Sachs disease. *Human Molecular Genetics* 14(15):2113-23. **IF. 7.386**
16. **Martino S.** and Orlacchio A. (2006) Cellule staminali e GM2 gangliosidosi. *On-line Rapporti ISTSAN*, [http://www.iss.it/binary/publ/publi/05\\_C8.1129207745.pdf](http://www.iss.it/binary/publ/publi/05_C8.1129207745.pdf).
17. Consiglio A., **Martino S.**, Dolcetta D., Cusella G., Conese M., Marchesini S., Benaglia G., Wrabetz L., Orlacchio A., Deglon N., Aebischer P., Severini G.M., Bordignon C. (2007). Metabolic correction in

- oligodendrocytes derived from metachromatic leukodystrophy mouse model by using encapsulated recombinant myoblasts. *Journal of Neuroscience Research*. 255; 7-16. **IF. 2.945**
18. Orlacchio An., Bernardi G., Orlacchio A, **Martino S.** (2007). RNA Interference as a tool for Alzheimer's disease therapy. *Mini-Reviews in Medicinal Chemistry*. 7: 1173-1182 Review. **IF. 3.06**
  19. Orlacchio An., Bernardi G., Orlacchio A., **Martino S.** (2007). Genetics of Amyotrophic Lateral Sclerosis. In: *Recent Research Development in Neuroscience.*, 978-81-308-0183-4:7-54 Review.
  20. Costanzi E., **Martino S.**, Persichetti E., Tiribuzi R., Massini, C., Bernardi, G., Orlacchio An., Orlacchio A.. (2008). Effects of Vitamin C on Fibroblasts from Sporadic Alzheimer's Disease Patients. *Neurochemical Research*.33:2510-5. **IF. 2.608**
  21. Balducci C., Bibi L., Berg T., Persichetti E., Tiribuzi R., **Martino S.**, Paciotti S., Roberti R., Orlacchio A., Beccari T. (2008). Molecular cloning and structural organization of the gene encoding the mouse lysosomal di-N-acetylchitobiase (cbs). *Gene*, 1-2, 416: 85-91. **IF. 2.266**
  22. Tiribuzi R., **Martino S.**, Ciraci E., D'Angelo F., di Girolamo I., Datti A. Bottazzo GF., Berardi A.C. and Orlacchio A. (2008) Non-redundant roles of Cathepsin L, Cathepsin B and Cathepsin S in CD1a<sup>+</sup>Dendritic Cells knocked-down for Cathepsin S by RNA interference. *Minerva Biotechnologica*. 20: 59-67 **IF. 0.35**
  23. Orlacchio An., Bernardi G., Orlacchio A., **Martino S.** (2008). Patented therapeutic RNAi strategies for neurodegenerative diseases of the CNS. *Expert Opinion on Therapeutic Patents*. 18:1161-1174 **IF. 2.45**
  24. **Martino S.**, Tiribuzi R., Tortori A., Conti D., Visigalli I., Lattanti A., Biffi A., Gritti A. and Aldo Orlacchio (2009) Specific determination of  $\beta$ -galactocerebrosidase activity via competitive inhibition of  $\beta$ -galactosidase. *Clinical Chemistry*. 55:541-548 **IF. 6.886**
  25. **Martino S.**, Gritti A., di Girolamo I., Cavazzini C., Tiribuzi R., Galli R., Sandhoff K, Vescovi A., Aldo Orlacchio (2009) Neural precursor cell cultures from GM2 gangliosidosis animal models recapitulate the biochemical and molecular hallmarks of the brain pathology. *Journal of Neurochemistry*. 109: 135-147 **IF. 4.337**
  26. **Martino S.**, di Girolamo I., Tiribuzi R., D'Angelo F., Datti A., Orlacchio A. (2009) Efficient siRNA Delivery by the Cationic Liposome DOTAP in Human Hematopoietic Stem Cells Differentiating into Dendritic Cells, *Journal of Biomedicine and Biotechnology*. doi: 10.1155/2009/410260 **IF. 1.22**
  27. **Martino S.**, D'Angelo F., Armentano I., Tiribuzi R., Pennacchi E., Dottori M., Mattioli S., Caraffa A. Cerulli G. Kenny J.M., Orlacchio A. (2009) a-C:H nanopatterned film designs drive human bone marrow mesenchymal stem cell cytoskeleton architecture. *Tissue engineering. Part A*. 15:3139-49. **IF. 4.636**
  28. **Martino S.**, di Girolamo I., Orlacchio A., Datti A., Orlacchio A. MicroRNA implications across neurodevelopment and neuropathology. *Journal of Biomedicine and Biotechnology*. 2009:654346. Review. **IF. 1.22**
  29. Orlacchio A., Bernardi G., Orlacchio A., **Martino S.** (2010) Stem Cells: An Overview of the Current Status of Therapies for Central and Peripheral Nervous System Diseases. *Current Medicinal Chemistry*. 17:595-608. Review. **IF.4.708**
  30. D'Angelo F., Armentano I., Reale U., Tiribuzi R., Mattioli S., Cerulli G.G., Ronzoni F., Quattrocchi M., Sampaolesi M., Kenny J.M., **Martino S.** and Orlacchio A. (2010) Human bone marrow mesenchymal stem cell guidance by a-C:H surface designs. *Journal of Applied Biomaterials and Biomechanics*. Novembre 2010. **IF. 0.944**
  31. Ronzoni F., Conte S., Galli D., Benedetti L., D'Angelo F., **Martino S.**, Orlacchio A., Cusella De Angelis G. and Sampaolesi M. (2010) Recombinant proteins and PCL biomaterial to burst myogenesis in vitro. *Journal of Applied Biomaterials and Biomechanics*. Novembre 2010 **IF. 0.944**
  32. Lattanzi A., Neri M., Maderna C., di Girolamo I., **Martino S.**, Orlacchio A., Amendola M., Naldini L., Gritti A. (2010) Widespread enzymatic correction of CNS tissues by a single intracerebral injection of therapeutic lentiviral vector in Leukodystrophy mouse models. *Human Molecular Genetics*. 19:2208-27 **IF. 8.14**
  33. Orlacchio A., Bernardi G., Orlacchio A., **Martino S.** (2010) Stem cells and neurological diseases. *Discovery Medicine*; 9:546-53. Review. **IF. 1.98**
  34. Visigalli I., Ungari S., **Martino S.**, Park H., Cesani M., Gentner B., Sergi Sergi L., Orlacchio A, Naldini L, Biffi A. (2010). The galactocerebrosidase enzyme contributes to the maintenance of a functional hematopoietic stem cell niche. *Blood*. 116:1857-66. **IF. 10.555**
  35. D'Angelo F, Armentano I, Mattioli S, Crispoltoni L, Tiribuzi R, Cerulli GG, Palmerini CA, Kenny J.M., **Martino S.** and Orlacchio A. (2010) Micropatterned hydrogenated amorphous carbon guides mesenchymal stem cells towards neuronal differentiation. *European Cell & Materia Journal*. 20:231-44. **IF. 9.650**

36. Gentner B., Visigalli I., Hiramatsu H., Lechman E., Ungari S., Giustacchini A., Schira G., Amendola M., Quattrini A., **Martino S.**, Orlacchio A., Dick J.E., Biffi A., Naldini L. (2010) Identification of hematopoietic stem cell-specific miRNAs enables gene therapy of globoid cell leukodystrophy. *Science Translational Medicine*; 2: 58ra84. **IF. 7.81**
37. Bianco A, Bozzo BM, Cacciotti I, Del Gaudio C, Armentano I., Dottori M, Dangelo F, **Martino S.**, Orlacchio A, Kenny JM. Poly(L-Lactic Acid)/Calcium-Deficient Nanohydroxyapatite Electrospun Mats for Murine Bone Marrow Stem Cell Cultures (2011). *Journal of Bioactive and Compatible Polymers*; 26: 225-241. **IF. 2.800**
38. **Martino S.**, Tiribuzi R., Ceraci E., Makrypidi G., D'Angelo F., Di Girolamo I., Gritti A., Cusella de Angelis M.G., Papaccio G.P., Sampaolesi M., Berardi A.C., Datti A., Orlacchio A. (2011). Coordinated Involvement of Cathepsins S, D and Cystatin C in the Commitment of Hematopoietic Stem Cells to Dendritic Cells. *The International Journal Of Biochemistry & Cell Biology*; 43:775-83 **IF. 4.956**
39. Tiribuzi R., Orlacchio A., Crispoltoni L., Maiotti M., Zampolini M., De Angelis M., Mecocci P., Cecchetti R., Bernardi G., Datti A., **Martino S.**, Orlacchio A. Lysosomal Beta-Galactosidase and Beta-Hexosaminidase activities correlate with clinical stages of dementia associated with Alzheimer's disease and type 2 Diabetes mellitus. *Journal Of Alzheimer's Disease*, 15 January, 2011 **IF. 4.10**
40. Fortunati E., D'Angelo F., **Martino S.**, Orlacchio A., Kenny J.M.' and Armentano I. (2011) Carbon nanotubes and silver nanoparticles for multifunctional conductive biopolymer composites.. *Carbon*, 49: 2370-2379 **IF. 4.893**
41. d'Aquino R., Tirino V., Desiderio V., Studer M., De Angelis G.C., Laino L., De Rosa A., Di Nucci D., **Martino S.**, Paino F., Sampaolesi M., Papaccio G. (2011) Human neural crest-derived postnatal cells exhibit remarkable embryonic attributes either in vitro or in vivo. *European Cell & Materia Journal*, 21:304-16. **IF. 3.028**
42. Quattrocchi M., Palazzolo G., Agnolin I., **Martino S.**, Bouché M., Anastasia L., Sampaolesi M. (2011) Synthetic sulfonyl-hydrazone-1 positively regulates cardiomyogenic microRNA expression and cardiomyocyte differentiation of induced pluripotent stem cells. *Journal of Cell Biochemistry*. Mar 28. doi: 10.1002/jcb.23118 **IF. 3.122**
43. Mattoli F., Tiribuzi R., D'Angelo F., di Girolamo I., Quattrocchi M., Montesano S., Crispoltoni L., Oikonomou V., Cusella De Angelis M.G., Marconi P., Orlacchio A., Sampaolesi M., **Martino S.** and Orlacchio A. (2011) Development of a New Tool for 3D Modeling for Regenerative Medicine. *International Journal of Biomedical Imaging*, 2011:236854 **IF: 2010 still computing**
44. D'Angelo F., Tiribuzi R., Armentano I., Kenny J.M., **Martino S.** and Orlacchio A. (2011) Mechanotransduction: Tuning Stem Cells Fate. *Journal Functional Biomaterial*, 2(2), 67-87 **IF: 2012 still computing**
45. Neri M, Ricca A, di Girolamo I, Alcalá-Franco B, Cavazzin C, Orlacchio A, **Martino S**, Naldini L, Gritti A. Neural stem cell gene therapy ameliorates pathology and function in a mouse model of globoid cell leukodystrophy. *Stem Cells*. 2011 Oct;29(10):1559-71 **IF. 7.87**
46. Tiribuzi R, D'Angelo F, Berardi AC, **Martino S** and Orlacchio A. Knock-down of HEXA and HEXB genes correlate with the absence of the immunostimulatory function of HSC-derived dendritic cells. *Cell Biochemistry and Function*. 2011 Oct 13. doi: 10.1002/cbf.1819. **IF. 1.65**
47. Trojani A., Di Camillo B., Tedeschi A., Lodola M., Montesano S., Ricci F., Vismara E., Greco A., Veronese S., Colosimo A., Scarpati B., Orlacchio A., **Martino S.**, Colombo C., Mura M., Nichelatti M. ARSD as a new biomarker associated with IGVH, ZAP-70, and disease progression in CLL. *Clinical Lymphoma Myeloma & Leukemia* 11:2-3 **If. 5.32**
48. **Martino S.**, D'Angelo F, Armentano I., Kenny J.M., Orlacchio A. (2012) Stem cell-biomaterial interactions for regenerative medicine. *Biotechnology Advances*. 230(1):338-51 **IF. 9.599**
49. **Martino S.**, Tiribuzi R., D'Angelo F., Orlacchio A (2012) Advanced Tools of Regenerative Medicine for Neurodegenerative Diseases. *Recent Patents on Regenerative Medicine* 2, 3 **IF: 2012 still computing**
50. Lizundia E., Sarasua J.R., D'angelo F., Orlacchio A., **Martino S.**, Kenny J.M, Armentano I. (2012) Biocompatible Poly (L-lactide) / MWCNT nanocomposites: morphological characterization, electrical properties and stem cell interaction. *Macromolecular Bioscience*. 12:870-81 **IF. 3.85**
51. Trojani A., Di Camillo B., Tedeschi A., Lodola A., Montesano S., Riccia F., Vismara E., Greco A., Veronese S., Orlacchio A., **Martino S.**, Colombo C., Mura M., Nichelatti M., Colosimo A., Scarpati B., Montillo M., Morra M. (2012). Gene expression profiling identifies ARSD as a new marker of disease progression and the sphingolipid metabolism as a potential novel metabolism in Chronic Lymphocytic Leukemia. *Disease Markers. Section A, Cancer Biomarkers*, 11: 15-28 **IF. 2.32**

52. D'Angelo F., Armentano I., Cacciotti I., Tiribuzi R., Quattrocelli M., Del Gaudio C., Fortunati E., Saino E., Caraffa A., Cerulli G.G., Visai L., Kenny J.M., Sampaolesi M., Bianco A., **Martino S.** and Orlacchio A. (2012) Tuning Multi/Pluri-Potent Stem Cell Fate by Electrospun Poly(l-lactic acid)-Calcium-Deficient Hydroxyapatite Nanocomposite Mats. *Biomacromolecules*. 13:1350-60 **IF. 5.32**
53. Santambrogio S., Ricca A., Maderna C., Ieraci A., Aureli M., Sonnino S., Kulik W., Aimar P., Bonfanti L., **Martino S.**, Gritti A. (2012) The galactocerebrosidase enzyme contributes to maintain a functional neurogenic niche during early post-natal CNS development. *Human Molecular Genetics*. 21(21):4732-50 **IF. 7.636**
54. Tiribuzi R., Crispoltoni L., Tartacca F., **Martino S.**, Palmerini C.A., Orlacchio A. (2013) Nitric oxide depletion alters hematopoietic stem cell commitment toward immunogenic dendritic cells. *Biochimica Biophys Acta*. 1830(3):2830-8. **IF. 3.8**
55. **Martino S.**, Montesano S., di Girolamo I., Tiribuzi R., Di Gregorio M., Orlacchio A., Datti A., Calabresi P., Sarchielli P., Orlacchio A. (2013) Expression of cathepsins S and D signals a distinctive biochemical trait in CD34+ hematopoietic stem cells of relapsing-remitting multiple sclerosis patients. *Multiple Sclerosis Journal*. 11:1443-53 **IF. 4.472**
56. Rescignano N., Tarpani L., Tiribuzi R., Montesano S., **Martino S.**, Latterini L., Kenny J. M., Armentano I. (2013) Protein Encapsulation in Biodegradable Polymeric Nanoparticles: Morphology, Fluorescence Behaviour and Stem Cell Uptake. *Macromolecular Bioscience* 2013, , 10: 1204-1212 **IF. 3.886**
57. Bicchi I., Morena F., Montesano S., Polidoro M., **Martino S.** (2013) MicroRNAs and Molecular Mechanisms of Neurodegeneration *Genes* 2013, 4(2), 244-263; Review **IF: 1.15**
58. Montesano S., Lizundia E., D'Angelo F., Fortunati E., Mattioli S., Morena F., Bicchi I., Naro F., Sampaolesi M., Sarasua J.R., Kenny J. M., Orlacchio A., Armentano I. **Martino S.** (2013) Nanocomposites based on PLLA and multi walled carbon nanotubes support the myogenic differentiation of murine myoblast cell line. *ISRN Tissue Engineering*. 25 may doi.org/10.1155/2013/825912
59. Biffi A., Montini E., Lorioli L., Cesani M., Fumagalli F., Plati T., Baldoli C., **Martino S.**, Calabria A., Canale S., Benedicenti F., Vallanti G., Biasco L., Leo S., Kabbara N., Zanetti G., Rizzo W.B., Mehta N.A., Cicalese M.P., Casiraghi M., Boelens J.J., Del Carro U., Dow D.J., Schmidt M., Assanelli A., Neduva V., Di Serio C., Stupka E., Gardner J., von Kalle C., Bordignon C., Ciceri F., Rovelli A., Roncarolo M.G., Aiuti A., Sessa M., Naldini L. (2013) Lentiviral Hematopoietic Stem Cell Gene Therapy Benefits Metachromatic Leukodystrophy. *Science*. 341 (6148):1233158 **IF. 31.027**
60. **Martino S.** (2013). Editorial [Hot Topic Stem Cells as a Tool for Biomedical Applications Guest Editor: Martino Sabata]. *Recent Patents On Drug Delivery & Formulation*, vol. 7, p. 3
61. Ricca, A. Ungari,S.,Rufo, N., Martino, S., Martino, S., Biffi, A., Gritti, A. (2013) Efficacy of combined gene/cell therapy in a murine model of Globoid cell Leukodystrophy *Human Gene Therapy*, 24; 12:A54-A54 **IF. 3.75**
62. RescignanoN., Fortunati E., Montesano S., Emiliani C., Kenny J.M., **Martino S.**, Armentano I. (2014) PVA bio-nanocomposites: A new take-off using cellulose nanocrystals and PLGA nanoparticles. *Carbohydrate Polymers*. 99:47-56 **IF. 3.479**
63. Morena F., di Girolamo I., Emiliani C., Gritti A., Biffi A., **Martino S.** (2014) A new analytical bench assay for the determination of arylsulfatase a activity toward galactosyl-3-sulfate ceramide: implication for metachromatic leukodystrophy diagnosis. *Analytica Chemistry*. 86(1):473-81. **IF.5.695**
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**Total IF 378.52**

**H index 19 (scopus)**

**H index 19 (ResearcherID)**

**Hc 16**

**Tot citation 1481 (research gate)**

**1324 (scopus)**

**1135 (researcherID)**

Perugia, 29.03.2016

**Dr.ssa Sabata Martino**  
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**Biologia Molecolare (SSD BIO/11)**

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