

Settore concorsuale: 05/H2
Settore Scientifico Disciplinare: BIO/17
Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore
Facoltà di Farmacia e Medicina
CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

Decreto Rettore Università di Roma "La Sapienza" numero 2267/2021 del 09.08.2021

Luca Madaro
Curriculum Vitae Madaro ai fini della pubblicazione

Place **Rome**
 Date **27 September 2021**

Part I – General Information

n/a

Part IIa – Education

Type	Year	Institution	Notes
National Scientific Habilitation	2019	MIUR	Qualification as Associate Professor in Histology (D.D. 1532/2016 - 05/H2)
National Scientific Habilitation	2018	MIUR	Qualification as Associate Professor in Applied Biology (D.D. 1532/2016 - 05/F1)
Specialty	2014	Università di Roma "Tor Vergata"	Italian Biological License Examination
PhD	2011	Università di Roma "La Sapienza"	Morphogenetic and cytology Science
University graduation	2008	Università di Roma "La Sapienza"	II level Degree in Medical Cellular and Molecular Biotechnology [LS(DM 509/)-9/S]
University graduation	2007	Università di Roma "La Sapienza"	I level Degree in Biotechnology [14456 - 2011/2012 (L-2)]

Part IIb – Non-academic Education

Type	Year	Institution	Notes
Training Course	2015	FELASA	Laboratory Animal Science (cat. B, 023/09)
Training Course	2013	EPIGEN	RNA-seq Workshop - CASPUR
Training Course	2012	EPIGEN	ChIP-seq Workshop - CASPUR

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2019	Present	Università di Roma "La Sapienza"	Researcher (RTDA)
2011	2013	Università di Roma "La Sapienza"	Postdoc

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

2008	2011	Università di Roma "La Sapienza"	PhD Student
2007	2008	Università di Roma "La Sapienza"	Internship

IIIB – Other Appointments

Start	End	Institution	Position
2015	2019	IRCCS Fondazione Santa Lucia - Rome	Research biologist
2014	2015	IRCCS Fondazione Santa Lucia - Rome	Postdoc – AFM fellowship
June 2013	Sept 2013	Sanford-Burnham Medical Research Institute (La Jolla, CA – USA)	Short Term Postdoc Fellowship

Part IVa – Teaching experience

Year	Institution	Lecture/Course
2021-Present	Università di Roma "La Sapienza"	Teacher of the course of Histology – Terapia della neuro e psicomotricità dell'età evolutive – 1 CFU
2021-Present	Università di Roma "La Sapienza"	Teacher of the course of Histology – Logopedia – 1 CFU
2021-Present	Università di Roma "La Sapienza"	Teacher of the course of Histology – Terapia Occupazionale – 1 CFU
2020-Present	Università di Roma "La Sapienza"	Teacher of the course of Histology – Biotecnologie – 3 CFU
2019-present	Università di Roma "La Sapienza"	Teacher of the course of Histology – Scienze Infermieristiche - 1 CFU
2010-2011	Università di Roma "La Sapienza"	Teacher of practical exercises and member of the examination committee for the course of "Cellular Biotechnology and Histology"

Part IVb – STUDENT SUPERVISION

Year	Institution	Notes
2020-Present	Università di Roma "La Sapienza"	Tutor of Dr. Chiara D'ercole PhD student (Ciclo: 36°)
2019-2020	Università di Roma "La Sapienza"	Tutor of Dr. Paolo D'Angelo bachelor student
2017-2020	Università di Roma "La Sapienza"	Tutor of Dr. Daisy Proietti PhD Student (Ciclo: 33°)
2014-2017	Università di Roma "La Sapienza"	Co-Tutor of Dr. Magda Passafaro PhD Student (Ciclo: 30°)
2015-2017	Università di Roma "Tor Vergata"	Co-Tutor of Dr. Daisy Proietti master student
2012-2013	Università di Roma "Tor Vergata"	Co-Tutor of Dr. Magda Passafaro master student

Part V - Society memberships, Awards and Honors

Year	Title
2020-present	Member of the "Collegio dei docenti di istologia ed embriologia".
25/09/2021	Approved the association with the Italian Society of Anatomy and Histology
2019-present	Member of the Teacher's Committee of the PhD School in "Morphogenesis and Tissue Engineering" at La Sapienza University of Rome

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

2016-2017	Associate at CNR within the project: "Role of Macrophages in mediating HDACi-based treatment of muscular dystrophy", referente attività Dr. Francesca De Santa.
2013-2014	AFM Telethon (Post-Doctoral Fellowship) - 51.000,00 euro
2013	EMBO Short term fellowship (Post-Doctoral Fellowship) - 7.415,20 euro
2011-2012	DPP NL Post-Doctoral fellowship – 55.000,00 euro
2012	Best presentation, Parent Project Award – IIM meeting 2012 – Acaya Lecce
2014-present	Member of the spinoff Atrofix s.r.l.
2021	Editor for the special Issue "Skeletal Muscle Atrophy and Metabolic Adaptation" on Metabolites journal. (https://www.mdpi.com/journal/metabolites/special_issues/Muscle_Metabolic)
2019-present	Reviewer for The FASEB JOURNAL (https://faseb.onlinelibrary.wiley.com/journal/15306860)
2019-present	Reviewer for MDPI Journals (https://www.mdpi.com/)
2018-present	Reviewer for Frontiers Journals (https://loop.frontiersin.org/people/210162/editorial)

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2021	Unraveling muscle differences to approach sarcoglycanopathies. (as Principal Investigator)	Sarepta	45.000,00 euro
2020	Characterization of b-sarcoglycan null mouse model to unravel muscle differences on same subject. (as Principal Investigator)	GFB Onlus	30.000,00 euro
2020	Determinanti cellulari e molecolari nell'atrofia neurogena. (as Principal Investigator)	Università di Roma "La Sapienza" – Progetti Ateneo	10.000,00 euro
2020	Cellular network driving neuromuscular junction stability. (as Principal Investigator)	AFM Telethon	50.000,00 euro
2019	Satellite Cell Neurotrophic Function: The Hidden Talent (as Principal Investigator)	Roche	50.000,00 euro
2018	The Trithorax and Polycomb group proteins UTX and EzH2 in the Frailty Syndrome (as Co-PI, Principal Investigator: Dr. Giovanni Tonon)	Cariplo	90.000,00 euro to Luca Madaro. Total funded: 399.300,00
2016	Role of muscle interstitial fibroadipogenic progenitors in the regulation of myofiber response to acute and pathological denervation (as Principal Investigator)	Italian Ministry of Health	314.507,8 euro

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

2013	Impact of hdaci on dystrophic muscle: transcriptome and epigenome of macrophages and satellite cells (as Investigator, PI: Dr. Francesca De Santa)	AFM Telethon	60.000,00 euro
------	--	--------------	----------------

Part VII – Research Activities

Keywords

Skeletal muscle
Innervation
NGS
Muscular dystrophy
Muscle atrophy

Brief Description

I obtained my degree in Medical Biotechnology at the University of Rome “La Sapienza” in 2008. I performed my PhD training in “Morphogenetic and Cytology Science” at the University of Rome, La Sapienza. During this time, I extended my studies on PKC θ to its role in the pathogenesis and development of Duchenne Muscular Dystrophy (Madaro et al. 2010-2012). This discovery indicated that PKC θ could be a potential target for interventions in DMD and fuelled pre-clinical studies toward pharmacological targeting of PKC θ in DMD muscles that have been funded by a DPP-NL postdoc fellowship and are still ongoing in the laboratory of my PhD mentor, Dr Bouche’. During my PhD training I also investigated the role of ER- stress induced autophagy (Madaro et al. 2013) and I received to complete my studies (Madaro 2013, 2014). I performed my postdoctoral training in the laboratories of Dr Puri in Rome (IRCCS Fondazione Santa Lucia) and La Jolla (Sanford Prebys Burnham Medical Research Institute) with the goal of extending my expertise and background in skeletal myogenesis to the epigenetic regulation. This experience has also been fundamental to learn technologies and analytical pipelines relative to genome-wide analysis of transcriptome (RNAseq), and chromatin-binding of transcriptional factors or histone modifications (ChIPseq) (Saccone et al. 2014; Malecova et al. 2015; Malecova et al. 2018). My major achievement during my post-doctoral training has been the identification of Fibro- adipogenic progenitors (FAPs), as a novel cellular contributor of muscle atrophy in response to denervation and ALS (Madaro 2018). Based on these studies, in 2016 I received one of the most important Italian young research grant by the Italian Ministry of Health, as PI for a project focused on the transcriptional analysis of FAPs in acute denervation and ALS. In 2019 I become researcher at la Sapienza University of Rome and I received a Roche and AFM telethon research grant as a PI to study at single cell level the molecular changes in a mouse model of acuter denervation. We have recently published the first evidence regarding transcriptome alterations at the single cell level in denervated muscle (Proietti et al. 2021).

Publication

1. Renzini A., Riera C.S., Minic I., D’ercole C., Lozanoska-ochser B., Cedola A., Gigli G., Moresi V., Madaro L. Metabolic remodeling in skeletal muscle atrophy as a therapeutic target *Metabolites* 2021 DOI:10.3390/metabo11080517, **IF publ.:** 4.932 **IF last:** 4.932 **Citazioni:** 0
2. Proietti D., Giordani L., De Bardi M., D’Ercole C., Lozanoska-Ochser B., Amadio S., Volonté C., Marinelli S., Muchir A., Bouché M., Borsellino G., Sacco A., Puri P.L., Madaro L. Activation of skeletal muscle-resident glial cells upon nerve injury *JCI Insight* 2021 DOI:10.1172/jci.insight.143469, **IF publ.:** 8.315 **IF last:** 8.315 **Citazioni:** 4
3. Sánchez Riera C., Lozanoska-ochser B., Testa S., Fornetti E., Bouché M., Madaro L. Muscle diversity, heterogeneity, and gradients: Learning from sarcoglycanopathies *International Journal of Molecular Sciences* 2021 DOI:10.3390/ijms22052502, **IF publ.:** 5.923 **IF last:** 5.923 **Citazioni:** 2
4. De Paola E., Forcina L., Pelosi L., Pisu S., La Rosa P., Cesari E., Nicoletti C., Madaro L., Mercatelli N., Biamonte F., Nobili A., D’Amelio M., De Bardi M., Volpe E., Caporossi D., Sette C., Musarò A., Paronetto M.P. Sam68 splicing regulation contributes to motor unit establishment in the postnatal skeletal muscle *Life Science Alliance* 2020 DOI:10.26508/lsa.201900637, **IF publ.:** 4.591 **IF last:** 4.591 **Citazioni:** 0

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

5. Vacca V., Madaro L., De Angelis F., Proietti D., Cobianchi S., Orsini T., Puri P.L., Luvisetto S., Pavone F., Marinelli S. Revealing the therapeutic potential of botulinum neurotoxin type a in counteracting paralysis and neuropathic pain in spinally injured mice *Toxins* 2020 DOI:10.3390/toxins12080491 **IF publ.:** 4.546 **IF last:** 5.458 **Citazioni:** 1
6. Scaricamazza S., Salvatori I., Giacobuzzo G., Loeffler J.P., Renè F., Rosina M., Quessada C., Proietti D., Heil C., Rossi S., Battistini S., Giannini F., Volpi N., Steyn F.J., Ngo S.T., Ferraro E., Madaro L., Coccurello R., Valle C., Ferri A. Skeletal-Muscle Metabolic Reprogramming in ALS-SOD1G93A Mice Predates Disease Onset and Is A Promising Therapeutic Target *iScience* 2020 DOI:10.1016/j.isci.2020.101087 **IF publ.:** 5.458 **IF last:** 5.458 **Citazioni:** 16
7. Benedetti A., Fiore P.F., Madaro L., Lozanoska-Ochser B., Bouché M. Targeting *pkcθ* promotes satellite cell self-renewal *International Journal of Molecular Sciences* 2020 DOI:10.3390/ijms21072419 **IF publ.:** 5.923 **IF last:** 5.923 **Citazioni:** 2
8. Fiore P.F., Benedetti A., Sandonà M., Madaro L., De Bardi M., Saccone V., Puri P.L., Gargioli C., Lozanoska-Ochser B., Bouché M. Lack of PKC θ promotes regenerative ability of muscle stem cells in chronic muscle injury *International Journal of Molecular Sciences* 2020 DOI:10.3390/ijms21030932 **IF publ.:** 5.923 **IF last:** 5.923 **Citazioni:** 4
9. Savoia C., Arrabito E., Parente R., Nicoletti C., Madaro L., Battistoni A., Filippini A., Steckelings U.M., Touyz R.M., Volpe M. Mas Receptor Activation Contributes to the Improvement of Nitric Oxide Bioavailability and Vascular Remodeling during Chronic AT1R (Angiotensin Type-1 Receptor) Blockade in Experimental Hypertension *Hypertension* DOI:2020 10.1161/HYPERTENSIONAHA.120.15527 **IF publ.:** 10.19 **IF last:** 10.19 **Citazioni:** 1
10. Biferali B., Proietti D., Mozzetta C., Madaro L. Fibro-Adipogenic Progenitors Cross-Talk in Skeletal Muscle: The Social Network *Frontiers in Physiology* 2019 DOI:10.3389/fphys.2019.01074 **IF publ.:** 3.367 **IF last:** 4.566 **Citazioni:**38
11. Apolloni S., Amadio S., Fabbriozzi P., Morello G., Spampinato A.G., Latagliata E.C., Salvatori I., Proietti D., Ferri A., Madaro L., Puglisi-Allegra S., Cavallaro S., Volonté C. Histaminergic transmission slows progression of amyotrophic lateral sclerosis *Journal of Cachexia, Sarcopenia and Muscle* 2019 DOI:10.1002/jcsm.12422 **IF publ.:** 9.802 **IF last:** 12.91 **Citazioni:** 14
12. Madaro L., Torcinaro A., de Bardi M., Contino F.F., Pelizzola M., Diaferia G.R., Imeneo G., Bouché M., Puri P.L., de Santa F. Macrophages fine tune satellite cell fate in dystrophic skeletal muscle of mdx mice *PLoS Genetics* 2019 DOI:10.1371/journal.pgen.1008408 **IF publ.:** 5.175 **IF last:** 5.917 **Citazioni:** 9
13. Malecova B., Gatto S., Etxaniz U., Passafaro M., Cortez A., Nicoletti C., Giordani L., Torcinaro A., De Bardi M., Biccato S., De Santa F., Madaro L., Puri P.L. Dynamics of cellular states of fibro-adipogenic progenitors during myogenesis and muscular dystrophy *Nature Communications* 2018 DOI:10.1038/s41467-018-06068-6 **IF publ.:** 11.878 **IF last:** 14.919 **Citazioni:** 54
14. Madaro L., Passafaro M., Sala D., Etxaniz U., Lugarini F., Proietti D., Alfonsi M.V., Nicoletti C., Gatto S., De Bardi M., Rojas-García R., Giordani L., Marinelli S., Pagliarini V., Sette C., Sacco A., Puri P.L. Denervation-activated STAT3-IL-6 signalling in fibro-adipogenic progenitors promotes myofibres atrophy and fibrosis *Nature Cell Biology* 2018 DOI:10.1038/s41556-018-0151-y **IF publ.:** 17.728 **IF last:** 28.824 **Citazioni:** 64
15. Milan M., Pace V., Maiullari F., Chirivì M., Baci D., Maiullari S., Madaro L., Maccari S., Stati T., Marano G., Frati G., Puri P.L., De Falco E., Bearzi C., Rizzi R. Givinostat reduces adverse cardiac remodeling through regulating fibroblasts activation *Cell Death and Disease* 2018 DOI:10.1038/s41419-017-0174-5 **IF publ.:** 5.959 **IF last:** 8.469 **Citazioni:** 13
16. Bouché M., Lozanoska-Ochser B., Proietti D., Madaro L. Do neurogenic and cancer-induced muscle atrophy follow common or divergent paths? *European Journal of Translational Myology* 2018 DOI:10.4081/ejtm.2018.7931 **IF publ.:** na **IF last:** na **Citazioni:** 4
17. D'Agostino M., Torcinaro A., Madaro L., Marchetti L., Sileno S., Beji S., Salis C., Proietti D., Imeneo G., Capogrossi M.C., De Santa F., Magenta A. Role of miR-200c in myogenic differentiation impairment via p66Shc: Implication in skeletal muscle regeneration of dystrophic mdx mice 2018 *Oxidative Medicine and Cellular Longevity* DOI:10.1155/2018/4814696 **IF publ.:** 4.868 **IF last:** 6.543 **Citazioni:** 10
18. Marrocco V., Fiore P., Benedetti A., Pisu S., Rizzuto E., Musarò A., Madaro L., Lozanoska-Ochser B., Bouché M. Pharmacological Inhibition of PKC θ Counteracts Muscle Disease in a Mouse Model of Duchenne Muscular Dystrophy *EbioMedicine* 2017 DOI:10.1016/j.ebiom.2017.01.001 **IF publ.:** 6.183 **IF last:** 8.143 **Citazioni:** 17
19. Farup J., Torcinaro A., Madaro L. Skeletal muscle stem cell defects in burn-induced cachexia *Journal of Physiology* 2016 DOI:10.1113/JP273095 **IF publ.:** 4.739 **IF last:** 5.182 **Citazioni:** 0
20. Fiacco E., Castagnetti F., Bianconi V., Madaro L., De Bardi M., Nazio F., D'Amico A., Bertini E., Cecconi F., Puri P.L., Latella L. Autophagy regulates satellite cell ability to regenerate normal and dystrophic

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

- muscles *Cell Death and Differentiation* 2016 DOI:10.1038/cdd.2016.70 **IF publ.:** 8.339 **IF last:** 15.828 **Citazioni:** 60
21. Smeriglio P., Alonso-Martin S., Masciarelli S., Madaro L., Iosue I., Marrocco V., Relaix F., Fazi F., Marazzi G., Sassoon D.A., Bouché M. Phosphotyrosine phosphatase inhibitor bisperoxovanadium endows myogenic cells with enhanced muscle stem cell functions via epigenetic modulation of Sca-1 and Pw1 promoters *FASEB Journal* 2016 DOI:10.1096/fj.15-275420b **IF publ.:** 5.498 **IF last:** 5.191 **Citazioni:** 4
22. Malecova B., Dall'Agnese A., Madaro L., Gatto S., Toto P.C., Albini S., Ryan T., Tora L., Puri P.L. TBP/TFIID-dependent activation of myoD target genes in skeletal muscle cells *eLife* 2016 DOI:10.7554/eLife.12534 **IF publ.:** 7.725 **IF last:** 8.14 **Citazioni:** 11
23. Chiappalupi S., Luca G., Mancuso F., Madaro L., Fallarino F., Nicoletti C., Calvitti M., Arato I., Falabella G., Salvadori L., Di Meo A., Bufalari A., Giovagnoli S., Calafiore R., Donato R., Sorci G. Intraperitoneal injection of microencapsulated Sertoli cells restores muscle morphology and performance in dystrophic mice *Biomaterials* 2016 DOI:10.1016/j.biomaterials.2015.10.029 **IF publ.:** 8.402 **IF last:** 12.479 **Citazioni:** 13
24. Chiappalupi S., Luca G., Mancuso F., Madaro L., Fallarino F., Nicoletti C., Calvitti M., Arato I., Falabella G., Salvadori L., Di Meo A., Bufalari A., Giovagnoli S., Calafiore R., Donato R., Sorci G. Effects of intraperitoneal injection of microencapsulated Sertoli cells on chronic and presymptomatic dystrophic mice *Data in Brief* 2015 DOI:10.1016/j.dib.2015.11.016 **IF publ.:** na **IF last:** na **Citazioni:** 5
25. Farup J., Madaro L., Puri P.L., Mikkelsen U.R. Interactions between muscle stem cells, mesenchymal-derived cells and immune cells in muscle homeostasis, regeneration and disease *Cell Death and Disease* 2015 DOI:10.1038/cddis.2015.198 **IF publ.:** 5.378 **IF last:** 8.469 **Citazioni:** 69
26. Faggi F., Chiarelli N., Colombi M., Mitola S., Ronca R., Madaro L., Bouche M., Poliani P.L., Vezzoli M., Longhena F., Monti E., Salani B., Maggi D., Keller C., Fanzani A. Cavin-1 and Caveolin-1 are both required to support cell proliferation, migration and anchorage-independent cell growth in rhabdomyosarcoma *Laboratory Investigation* 2015 DOI:10.1038/labinvest.2015.45 **IF publ.:** 4.202 **IF last:** 5.662 **Citazioni:** 20
27. Madaro L., Latella L. Forever young: Rejuvenating muscle satellite cells *Frontiers in Aging Neuroscience* 2015 DOI:10.3389/fnagi.2015.00037 **IF publ.:** 4.348 **IF last:** 5.75 **Citazioni:** 8
28. Marrocco V., Fiore P., Madaro L., Crupi A., Lozanoska-Ochser B., Bouché M. Targeting PKC θ in skeletal muscle and muscle diseases: Good or bad? *Biochemical Society Transactions* 2014 DOI:10.1042/BST20140207 **IF publ.:** 3.194 **IF last:** 5.407 **Citazioni:** 7
29. Saccone V., Consalvi S., Giordani L., Mozzetta C., Barozzi I., Sandoná M., Ryan T., Rojas-Muñoz A., Madaro L., Fasanaro P., Borsellino G., De Bardi M., Frigè G., Termanini A., Sun X., Rossant J., Bruneau B.G., Mercola M., Minucci S., Puri P.L. HDAC-regulated myomiRs control BAF60 variant exchange and direct the functional phenotype of fibro-adipogenic progenitors in dystrophic muscles *Genes and Development* 2014 DOI:10.1101/gad.234468.113 **IF publ.:** 10.798 **IF last:** 11.361 **Citazioni:** 90
30. Camerino G.M., Bouché M., De Bellis M., Cannone M., Liantonio A., Musaraj K., Romano R., Smeriglio P., Madaro L., Giustino A., De Luca A., Desaphy J.-F., Camerino D.C., Pierno S. Protein kinase C theta (PKC θ) modulates the ClC-1 chloride channel activity and skeletal muscle phenotype: a biophysical and gene expression study in mouse models lacking the PKC θ *Pflugers Archiv European Journal of Physiology* 2014 DOI:10.1007/s00424-014-1495-1 **IF publ.:** 4.101 **IF last:** 3.657 **Citazioni:** 20
31. Madaro L., Bouché M. From innate to adaptive immune response in muscular dystrophies and skeletal muscle regeneration: The role of lymphocytes 2014 *BioMed Research International* DOI:10.1155/2014/438675 **IF publ.:** 1.579 **IF last:** 3.411 **Citazioni:** 29
32. Madaro L., Antonangeli F., Favia A., Esposito B., Biamonte F., Bouché M., Ziparo E., Sica G., Filippini A., D'Alessio A. Knock down of caveolin-1 affects morphological and functional hallmarks of human endothelial cells *Journal of Cellular Biochemistry* 2013 DOI:10.1002/jcb.24526 **IF publ.:** 3.368 **IF last:** 4.429 **Citazioni:** 17
33. Savoia C., Arrabito E., Parente R., Sada L., Madaro L., Nicoletti C., Zezza L., Alonzo A., Rubattu S., Michelini S., Muller D.N., Volpe M. The direct renin inhibitor aliskiren improves vascular remodelling in transgenic rats harbouring human renin and angiotensinogen genes *Clinical Science* 2013 DOI:10.1042/CS20120395 **IF publ.:** 5.629 **IF last:** 6.124 **Citazioni:** 12
34. Madaro L., Marrocco V., Carnio S., Sandri M., Bouché M. Intracellular signaling in ER stress-induced autophagy in skeletal muscle cells *FASEB Journal* 2013 DOI:10.1096/fj.12-215475 **IF publ.:** 5.48 **IF last:** 5.191 **Citazioni:** 40
35. Madaro L., Pelle A., Nicoletti C., Crupi A., Marrocco V., Bossi G., Soddu S., Bouché M. PKC theta ablation improves healing in a mouse model of muscular dystrophy *PLoS ONE* 2012 DOI:10.1371/journal.pone.0031515 **IF publ.:** 4.092 **IF last:** 3.24 **Citazioni:** 33

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

36. Verga Falzacappa C., Mangialardo C., Madaro L., Ranieri D., Lupoi L., Stigliano A., Torrissi M.R., Bouché M., Toscano V., Misiti S. Thyroid hormone T3 counteracts STZ induced diabetes in mouse *PLoS ONE* 2011 DOI:10.1371/journal.pone.0019839 **IF publ.:** 3.534 **IF last:** 3.24 **Citazioni:** 36
37. Madaro L., Marrocco V., Fiore P., Aulino P., Smeriglio P., Adamo S., Molinaro M., Bouché M. PKC θ signaling is required for myoblast fusion by regulating the expression of caveolin-3 and β 1D integrin upstream focal adhesion kinase *Molecular Biology of the Cell* 2011 DOI:10.1091/mbc.E10-10-0821 **IF publ.:** 4.942 **IF last:** 4.138 **Citazioni:** 34
38. Paoletti R., Maffei A., Madaro L., Notte A., Stanganello E., Cifelli G., Carullo P., Molinaro M., Lembo G., Bouché M. Protein kinase C θ is required for cardiomyocyte survival and cardiac remodeling *Cell Death and Disease* 2010 DOI:10.1038/cddis.2010.24 **IF publ.:** na **IF last:** 8.469 **Citazioni:** 16

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	38	Scopus (ID: 37091065100)	2010	2021
Papers (LAST 5 YEARS)	24	Scopus	2016	2021
Total Impact factor	216.109	Data base: JCR		
Average Impact factor	5.687	Data base: JCR		
Total Citations	780	Data base: Scopus		
Citations (LAST 10 YEARS)	764	Data base: Scopus		
Average Citations per Product	20.526	Data base: Scopus		
Hirsch (H) index	16	Data base: Scopus		
Hirsch (H) index (LAST 10 YEARS)	16	Data base: Scopus		
Normalized H index*	1.45	Data base: Scopus		

*H index divided by the academic seniority.

SCOPUS Author ID: 37091065100	ORCID ID: orcid.org/0000-0003-0839-5724	RESEARCH ID: K-4629-2016
-------------------------------	---	--------------------------

Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

1. Proietti D., Giordani L., De Bardi M., D'Ercole C., Lozanoska-Ochser B., Amadio S., Volonté C., Marinelli S., Muchir A., Bouché M., Borsellino G., Sacco A., Puri P.L., Madaro L. Activation of

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

- skeletal muscle-resident glial cells upon nerve injury. *JCI Insight* 2021 (DOI:10.1172/jci.insight.143469) IF: **8.315**; Citations: **5**.
2. Scaricamazza S., Salvatori I., Giacobuzzo G., Loeffler J.P., Renè F., Rosina M., Quessada C., Proietti D., Heil C., Rossi S., Battistini S., Giannini F., Volpi N., Steyn F.J., Ngo S.T., Ferraro E., Madaro L., Coccurello R., Valle C., Ferri A. Skeletal-Muscle Metabolic Reprogramming in ALS-SOD1G93A Mice Predates Disease Onset and Is A Promising Therapeutic Target. *iScience* 2020 (DOI:10.1016/j.isci.2020.101087) IF: **5.458**; Citations: **16**.
 3. Apolloni S., Amadio S., Fabbrizio P., Morello G., Spampinato A.G., Latagliata E.C., Salvatori I., Proietti D., Ferri A., Madaro L., Puglisi-Allegra S., Cavallaro S., Volonté C. Histaminergic transmission slows progression of amyotrophic lateral sclerosis. *Journal of Cachexia, Sarcopenia and Muscle wasting* 2019 (DOI:10.1002/jcsm.12422) IF: **9.802**; Citations: **14**.
 4. Madaro L., Torcinaro A., de Bardi M., Contino F.F., Pelizzola M., Diaferia G.R., Imeneo G., Bouché M., Puri P.L., de Santa F. Macrophages fine tune satellite cell fate in dystrophic skeletal muscle of mdx mice. *PLoS Genetics* 2019 (DOI:10.1371/journal.pgen.1008408) IF: **5.175**; Citations: **9**.
 5. Madaro L., Passafaro M., Sala D., Etxaniz U., Lugarini F., Proietti D., Alfonsi M.V., Nicoletti C., Gatto S., De Bardi M., Rojas-García R., Giordani L., Marinelli S., Pagliarini V., Sette C., Sacco A., Puri P.L. Denervation-activated STAT3–IL-6 signalling in fibro-adipogenic progenitors promotes myofibres atrophy and fibrosis. *Nature Cell Biology* 2018 (DOI:10.1038/s41556-018-0151-y) IF: **17.728**; Citations: **65**.
 6. Malecova B., Gatto S., Etxaniz U., Passafaro M., Cortez A., Nicoletti C., Giordani L., Torcinaro A., De Bardi M., Bicciato S., De Santa F., Madaro L., Puri P.L. Dynamics of cellular states of fibro-adipogenic progenitors during myogenesis and muscular dystrophy. *Nature Communications* (DOI:10.1038/s41467-018-06068-6) IF: **11.878**; Citations: **55**.
 7. Milan M., Pace V., Maiullari F., Chirivì M., Baci D., Maiullari S., Madaro L., Maccari S., Stati T., Marano G., Frati G., Puri P.L., De Falco E., Bearzi C., Rizzi R. Givinostat reduces adverse cardiac remodeling through regulating fibroblasts activation article *Cell Death and Disease* 2018 (DOI:10.1038/s41419-017-0174-5) IF: **5.959**; Citation: **13**.
 8. D'Agostino M., Torcinaro A., Madaro L., Marchetti L., Sileno S., Beji S., Salis C., Proietti D., Imeneo G., Capogrossi M.C., De Santa F., Magenta A. Role of miR-200c in myogenic differentiation impairment via p66Shc: Implication in skeletal muscle regeneration of dystrophic mdx mice. *Oxidative Medicine and Cellular Longevity* 2018 (DOI:10.1155/2018/4814696) IF: **4.868**; Citations: **10**.
 9. Marrocco V., Fiore P., Benedetti A., Pisu S., Rizzuto E., Musarò A., Madaro L., Lozanoska-Ochser B., Bouché M. Pharmacological Inhibition of PKC θ Counteracts Muscle Disease in a Mouse Model of Duchenne Muscular Dystrophy. *EBioMedicine* 2017 (DOI:10.1016/j.ebiom.2017.01.001) IF: **6.183** Citations: **17**.
 10. Chiappalupi S., Luca G., Mancuso F., Madaro L., Fallarino F., Nicoletti C., Calvitti M., Arato I., Falabella G., Salvadori L., Di Meo A., Bufalari A., Giovagnoli S., Calafiore R., Donato R., Sorci G. Intraperitoneal injection of microencapsulated Sertoli cells restores muscle morphology and performance in dystrophic mice *Biomaterials* 2016 (DOI:10.1016/j.biomaterials.2015.10.029) IF: **8.402**; Citations: **13**.
 11. Fiacco E., Castagnetti F., Bianconi V., Madaro L., De Bardi M., Nazio F., D'Amico A., Bertini E., Cecconi F., Puri P.L., Latella L. Autophagy regulates satellite cell ability to regenerate normal and

Settore concorsuale: 05/H2

Settore Scientifico Disciplinare: BIO/17

Dipartimento di Scienze anatomiche, istologiche, medico-legali e dell'apparato locomotore

Facoltà di Farmacia e Medicina

CODICE CONCORSO 2021RTDB022 D.R. n. 2267/2021 del 09.08.2021

dystrophic muscles *Cell Death and Differentiation* 2016 (DOI:10.1038/cdd.2016.70) IF: **8.339**;
Citations: **60**.

12. Malecova B., Dall'Agnesse A., Madaro L., Gatto S., Toto P.C., Albini S., Ryan T., Tora L., Puri P.L. TBP/TFIID-dependent activation of myoD target genes in skeletal muscle cells *eLife* 2016 (DOI:10.7554/eLife.12534) IF: **7.725**; Citations: **11**.
13. Saccone V., Consalvi S., Giordani L., Mozzetta C., Barozzi I., Sandomá M., Ryan T., Rojas-Muñoz A., Madaro L., Fasanaro P., Borsellino G., De Bardi M., Frigè G., Termanini A., Sun X., Rossant J., Bruneau B.G., Mercola M., Minucci S., Puri P.L. HDAC-regulated myomiRs control BAF60 variant exchange and direct the functional phenotype of fibro-adipogenic progenitors in dystrophic muscles *Genes and Development* 2014 (DOI:10.1101/gad.234468.113) IF: **10.798**; Citations: **90**.
14. Madaro L., Marrocco V., Carnio S., Sandri M., Bouché M. Intracellular signaling in ER stress-induced autophagy in skeletal muscle cells *FASEB Journal* 2013 (DOI:10.1096/fj.12-215475) IF: **5.48**; Citations: **40**.
15. Madaro L., Pelle A., Nicoletti C., Crupi A., Marrocco V., Bossi G., Soddu S., Bouché M. PKC theta ablation improves healing in a mouse model of muscular dystrophy *PLoS ONE* 2012 (DOI:10.1371/journal.pone.0031515) IF: **3.73**; Citations: **33**.
16. Madaro L., Marrocco V., Fiore P., Aulino P., Smeriglio P., Adamo S., Molinaro M., Bouché M. PKC θ signaling is required for myoblast fusion by regulating the expression of caveolin-3 and β 1D integrin upstream focal adhesion kinase *Molecular Biology of the Cell* 2011 (DOI:10.1091/mbc.E10-10-0821) IF: **4.942**; Citations: **34**.

Luogo e data Roma 27/09/2021

Firma

A black rectangular redaction box covering the signature of the author.