# *Curriculum Vitae*: Gabriella Dobrowolny

## Education and training

September 2018 **National Academic Qualification as Associate Professor BIOS-13/A ( BIO/17)** ASN BANDO D.D. 1532/2016- 24/9/2018- validity 12 years

June 2014 **Specialist in Clinical Pathology** Thesis title: "Serum microRNA as putative biomarkers for ALS disease

April 2004 **PhD degree in Cell Science and Morphogenesis**. Thesis title : "Enhanced expression of IGF1 attenuates muscle wasting in aging and Amyotrophic Lateral Sclerosis" DAHFMO-Unit of Histology and Medical Embryology Sapienza University of Rome

June 1999 **Specialized School course** in "Analytical references and Quality Control" at the University of Rome La Sapienza.

May 1998 **Degree *cum laude* in Biology**, at Sapienza University of Rome Thesis title: "Analysis of micronuclei and chromosoma malsegregation induced by vinblastin in human binucleated lymphocytes correlated with donors age"

## Work experience

a.a, 2019/2020 - present Teachers' board member of the PhD program in "Morphogenesis and Tissue Engineering"

June 2019- 2022 **RtdA** BIO/17 at DAHFMO-Unit of Histology and Medical Embryology -Sapienza University of Rome

June 2022- present **RtdB** BIO/17 at DAHFMO-Unit of Histology and Medical Embryology -Sapienza University of Rome

October 2013- August 2018 **Specialist in Clinical Pathology** and **PhD scientist at IIT** - Istituto Italiano di Tecnologia - in the field of Novel Nanotech-Based Approaches for the study and treatment of human diseases.

She is currently coordinating a team working on the project ."Role of skeletal muscle in ALS disease pathogenesis".

October 2008- October 2016 **Lecturer** of Histology in the "Anatomy Histology and Physiology" courses at Sapienza University of Rome and "Life Science" programs. Tutor of undergraduate students in Medicine, Biology and Medical Biotechnology.

April 2004 - October 2013 **Research fellow**
-for DAHFMO-Unit of Histology and Medical Embryology -Sapienza University of Rome,
-for Pasteur Institute- Cenci Bolognetti Fondation
-for the Association Française contre les Myopathies (AFM- France ) on the study of the molecular mechanism of the interplay between muscle and nerve in ALS disease
-for St.George's University of London - Biomic Center- London UK.
During these periods she focused her study on the etiopathogenesis of neuromuscular disease.

October 2009- May 2014 **Trainee in Clinical Pathology specialization program**

May 2000-April 2004 **PhD student in Cell Science and Morphogenesis program** and **Academic visitors at** St.George's University of London - Biomic Center- London UK

October 1999-April 2000 **Clinical monitor** for Merck Sharp & Dohme in charge of two phase IV clinical trials.

June 1998 - October 1999 **Research Fellow** for Istituto Superiore di Sanità.

## Teaching experience

2020/21-present lecture in Histology and Medical Embryology - Medicine and Surgery school degree CdL HT -CdL B- CdL C -Sapienza University-Rome

2019/2020-present lecture in Histology- Fisioterapy school degree- CdL C Ospedale. San Giovanni-Addolorata Sapienza University –-Rome

2019/2020-present lecture in Histology Nursery school degree - CdL G ASL RM 5 Colleferro (RM) and CdL E Ospedale S. Spirito Sapienza University - Rome

2019/2020-present lecture in Histology–Medical radiology imaging techniques and radiotherapy school degree–CdL A Policlinico Umberto I Sapienza University -Rome

2019/2020-present lecture in Genetics–Medical radiology imaging techniques and radiotherapy school degree–CdL A Policlinico Umberto Sapienza University - Rome

2015/16 lecture in Histology Nursery school degree –CdL H ASL RM 6 Nettuno (RM) Sapienza University -Rome

2008/09 -2011/2012 lecture in Histology Nursery school degree-CdL B Policlinico Umberto I Sapienza University -Rome

## Scientific achievements

International peer-reviewed publications: 45
Citations 3153 , Indice H 24, *source Scopus*
Citations 3003, Indice H 25, *source Isi web of Science*

## Scientific research activities

During the first years of the scientific career, candidate's research activity was mainly focused on the study of the role of the Insulin like Growth Factor 1 (IGF1) in muscle wasting and neurodegeneration. In particular studies were focused on the analysis of the molecular pathways activated by IGF1 to counteract muscle atrophy associated with aging and with Amyotrophic Lateral Sclerosis (ALS), a neurodegenerative disorder.
During the Post Doc period, the scientific research was focused on the study of the contribute of skeletal muscle in ALS pathogenesis and on the effects of localized accumulation of oxidative stress in muscle and nerve interplay. Moreover the professional experience at the Biomics Centre of the St. George's University of London leads the candidate to develop cutting edge

proteomic techniques to dissect the molecular mechanism underpinning skeletal muscle and nervous tissue communication.

Recently candidate scientific interest is focused on the studies of the metabolic profile and muscle-nerve communication in physiological and pathological condition such as in ALS disease. Through the professional experience in the biomedical field as research scientist and clinical pathology specialist she has developed deep knowledge in the fields of skeletal muscle and nervous tissue communication in ALS disease pathogenesis. The scientific work lead to the publication of 45 papers, six of which has been published in high scientific impact journal such as Nat. Gen. (2001), PNAS (2004), JCB (2005) Cell Metab. (2008), ARS (2018), Sci. Rep. (2019), Br J Pharmacol. (2022)

## Scientific collaborations

During the research activity candidate has developed several scientific collaboration with italian and foreigner scientist, as documented by scientific production. Among the collaborators candidate can praise:

-Prof. Marco Sandri, Dept.of Biomedical Science, University of Padova

-Prof tania Zaglia Dept.of Biomedical Science, University of Padova

-Prof. Maurizio Inghilleri Dept of Neurology Sapienza University of Rome

-Prof. Feliciano Protasi G. d' Annunzio University of Chieti.

-Dr. Simone De Panfilis-Center for Life Nano Science at Sapienza, Istituto Italiano di Tecnologia in Rome

-Prof. Roger A. Bannister-Department of Medicine-Cardiology Division, -University of Colorado School of Medicine-USA

-Prof. Gary Coulton - School of Medicine-Biomics Centre of the St. George's University of London.

-Dr. Camilla Bernardini- Dept. of Anatomy and Cellular Biology, Cattolica University in Rome

-Dr.Mariano Bizzarri -Dept. of Experimental Medicine, University of Rome-Sapienza, and Alessandra Cucina Dept. of Surgery "P. Valdoni", University of Rome- Sapienza

-Angela Catizone - Dept. SAIMLAL- Unit of Histology and Medical Embryology Sapienza University of Rome

-Giulia Ricci, Dept. of Experimental Medicine - Histology and Medical Embryology Seconda Universita'degli studi di Napoli.

-Prof. Cristina Limatola and Francesca Grassi - Dept. of Physiology and Pharmacology, University of Rome -Sapienza

-Dr. Sabata Pierno - University of Bari -Aldo Moro

-Prof. Zaccaria Del Prete, Dept. Mechanical Engineering, University of Rome -Sapienza.

## Grants and awards

-PNRR-CN3_SPOKE_9 National Center for Gene Therapy and Drugs based on RNA Technology

-PNRR-CN5_SPOKE_7 National Biodiversity Future Center

-PI-Association Française contre les Myopathies (AFM) Call for Proposal 2022-23 "Deconvoluting human ALS muscle environment by Spatial Transcriptomics"

-PI-Bando di Ateneo 2019 Sapienza university of Rome n. RM120172A9047D57- "Circadian restoration of metabolic homeostasis as a novel strategy to counteract ALS disease".

The scientific research study "Skeletal muscle is a primary target of SOD1G93A- mediated toxicity" has been awarded as "Research of excellence" during "Sapienza e Ricerca" event, 2009 edition. Macro-area 6.

Holder of the Interuniversity Institute of Myology (IIM) Research Grant for the project "Characterization of the molecular trigger of muscle atrophy and denervartion in a novel ALS mouse model"

Awarded for a fellowship from Association Française contre les Myopathies (AFM) Call for Proposal MNM2 2006 Funding for the " Study of the molecular mechanism of the interplay between muscle and nerve in a mouse model of ALS"

Scientific participant in Fondazione Roma, Telethon (GGP14066), (GGP06004), ASI (grant no. 2013-088-R.0), PRIN (grant no. 2010R8JK2X). AFM, MDA, AIRC- research grants.

Scientific participant Progetto di Ateneo-Ricerca - Progetti Medi (2022) Responsabile: Prof Antonio Musarò- Progetto di Ateneo-Ricerca - Progetti Dipartimentali (2023) - Responsabile: Prof Paolo Onori.-Componente in Progetto di Terza Missione: (2022) Scienza e SAperi in Sapienza (SSAS)- Responsabile: CRESPI Mattia Giovanni research grants.

## Publications

"Fondamenti di Istologia" V. De Felice, Gabriella Dobrowolny, Giulia Ricci, Bianca Maria Scicchitano, Maria Teresa Visomi. ISBN 979-12-80774-58-3 Edizioni Scientifiche Falco

"Circulating Extracellular Vesicles in Alcoholic Liver Disease Affect Skeletal Muscle Homeostasis and Differentiation". Barberi L, Porcu C, Boccia C, Cosentino M, Nicoletti C, Peruzzi B, Iosi F, Forconi F, Bagnato G, **Dobrowolny G**, Di Cola S, Lapenna L, Cera G, Merli M, Musarò A .J Cachexia Sarcopenia Muscle. 2025 Feb;16(1):e13675. doi: 10.1002/jcsm.13675..

"Exploring the Role of Extracellular Vesicles in Skeletal Muscle Regeneration". Porcu C, **Dobrowolny G***, Scicchitano BM* .Int J Mol Sci. 2024 May 27;25(11):5811. doi: 10.3390/ijms25115811. Review.

"MiR206 and 423-3p Are Differently Modulated in Fast and Slow-Progressing Amyotrophic Lateral Sclerosis Patients". Musarò A, **Dobrowolny G**, Cambieri C, Libonati L, Moret F, Casola I, Laurenzi G, Garibaldi M, Inghilleri M, Ceccanti M. Neuromolecular Med. 2024 Mar 15;26(1):5. doi: 10.1007/s12017-024-08773-6.

"Semaphorins: Missing Signals in Age-dependent Alteration of Neuromuscular Junctions and Skeletal Muscle Regeneration". Fard D,

Barbiera A, **Dobrowolny G**, Tamagnone L, Scicchitano BM. Aging Dis. 2024 Apr 1;15(2):517-534. doi: 10.14336/AD.2023.0801Review.

"Wheel Running Adversely Affects Disease Onset and Neuromuscular Interplay in Amyotrophic Lateral Sclerosis Slow Progression Mouse Model". Golini E, Marinelli S, Pisu S, De Angelis F, Vacca V, Rava A, Casola I, Laurenzi G, Rizzuto E, Giuliani A, Musarò A, **Dobrowolny G**, MandilloS.CurrNeurovascRes.2023;20(3):362376.doi:10.2174/1567202620666230823095922.PMID: 37614106

"Sympathetic neuropathology is revealed in muscles affected by amyotrophic lateral sclerosis". Mazzaro A, Vita V, Ronfini M, Casola I, Klein A, **Dobrowolny G**, Sorarù G, Musarò A, Mongillo M, Zaglia T.Front Physiol. 2023 May 12;14:1165811. doi: 10.3389/fphys.2023.1165811. eCollection 2023.

"Taurine Administration Counteracts Aging-Associated Impingement of Skeletal Muscle Regeneration by Reducing Inflammation and Oxidative Stress". Barbiera A, Sorrentino S, Fard D, Lepore E, Sica G, **Dobrowolny G**, Tamagnone L, Scicchitano BM.Antioxidants (Basel). 2022 May 21;11(5):1016. doi: 10.3390/antiox11051016.

"The Role of Skeletal Muscle in Neuromuscular Diseases: From Cellular and Molecular Players to Therapeutic Interventions". **Dobrowolny G**, Scicchitano BM. Cells. 2022 Apr 3;11(7):1207. doi: 10.3390/cells11071207.

"Repurposing of Trimetazidine for amyotrophic lateral sclerosis: A study in SOD1G93A mice" Scaricamazza S, Salvatori I, Amadio S, Nesci V, Torcinaro A, Giacovazzo G, Primiano A, Gloriani M, Candelise N, Pieroni L, Loeffler JP, Renè F, Quessada C, Tefera TW, Wang H, Steyn FJ, Ngo ST, **Dobrowolny G**, Lepore E, Urbani A, Musarò A, Volonté C, Ferraro E, Coccurello R, Valle C, Ferri A.Br J Pharmacol. 2021 Nov 16. doi: 10.1111/bph.15738.

"Circulating myomiRs in Muscle Denervation: From Surgical to ALS Pathological Condition". Casola I, Scicchitano BM, Lepore E, Mandillo S, Golini E, Nicoletti C, Barberi L, **Dobrowolny G***, Musarò A*. Cells. 2021 Aug 10;10(8):2043. doi: 10.3390/cells10082043 *co-corresponding author

"Fenretinide Beneficial Effects on Amyotrophic Lateral Sclerosis-associated SOD1G93A Mutant Protein Toxicity: In Vitro and In Vivo Evidences". Orienti I, Armida M, **Dobrowolny G**, Pepponi R, Sollazzini G, Pezzola A, Casola I, Musarò A, Popoli P, Potenza RL.Neuroscience. 2021 Aug 5;473:1-12. doi: 10.1016/j.neuroscience.2021.07.033

"Age-Related Alterations at Neuromuscular Junction: Role of Oxidative Stress and Epigenetic Modifications." **Dobrowolny G**, Barbiera A, Sica G, Scicchitano BM.Cells. 2021 May 24;10(6):1307. doi: 10.3390/cells10061307.

"A longitudinal study defined circulating microRNAs as reliable biomarkers for disease prognosis and progression in ALS human patients". **Dobrowolny G**, Martone J, Lepore E, Casola I, Petrucci A, Inghilleri M, Morlando M, Colantoni A, Scicchitano BM, Calvo A, Bisogni G, Chiò A, Sabatelli M, Bozzoni I, Musarò A.Cell Death Discov. 2021 Jan 11;7(1):4. doi: 10.1038/s41420-020-00397-6

"Taurine Attenuates Catabolic Processes Related to the Onset of Sarcopenia". Barbiera A, Sorrentino S, Lepore E, Carfì A, Sica G, **Dobrowolny G**, Scicchitano BM.Int J Mol Sci. 2020 Nov 23;21(22):8865. doi: 10.3390/ijms21228865.

"Neuromuscular Junction as an Entity of Nerve-Muscle Communication." Lepore E, Casola I, **Dobrowolny G**, Musarò A. Cells. 2019 Aug 16;8(8). pii: E906. doi: 10.3390/cells8080906. Review.

"Effects of IGF-1 isoforms on muscle growth and sarcopenia". Ascenzi F, Barberi L, **Dobrowolny G**, Villa Nova Bacurau A, Nicoletti C, Rizzuto E,

Rosenthal N, Scicchitano BM, Musarò A. Aging Cell. 2019 Jun;18(3):e12954. doi: 10.1111/acel.12954. Epub 2019 Apr 5.

"Elucidating the Contribution of Skeletal Muscle Ion Channels to Amyotrophic Lateral Sclerosis in search of new therapeutic options." Camerino GM, Fonzino A, Conte E, De Bellis M, Mele A, Liantonio A, Tricarico D, Tarantino N, **Dobrowolny G**, Musarò A, Desaphy JF, De Luca A, Pierno S. Sci Rep. 2019 Feb 28;9(1):3185. doi: 10.1038/s41598-019-39676-3.

"Neuromuscular magnetic stimulation counteracts muscle decline in ALS patients: results of a randomized, double-blind, controlled study". Musarò A, **Dobrowolny G**, Cambieri C, Onesti E, Ceccanti M, Frasca V, Pisano A, Cerbelli B, Lepore E, Ruffolo G, Cifelli P, Roseti C, Giordano C, Gori MC, Palma E, Inghilleri M. Sci Rep. 2019 Feb 26;9(1):2837. doi: 10.1038/s41598-019-39313-z.

"Levetiracetam enhances the temozolomide effect on glioblastoma stem cell proliferation and apoptosis." Scicchitano BM, Sorrentino S, Proietti G, Lama G, **Dobrowolny G**, Catizone A, Binda E, Larocca LM, Sica G. Cancer Cell Int. 2018 Sep 10;18:136. doi: 10.1186/s12935-018-0626-8. eCollection 2018.

"Metabolic changes associated with muscle expression of $SOD1^{G93A}$" **Gabriella Dobrowolny***, Elisa Lepore, Martina Martini, Laura Barberi, Abigal Nunn, Bianca Maria Scicchitano and Antonio Musarò* Front Physiol. 2018 Jul 10;9:831. doi: 10.3389/fphys.2018.00831; *co-corresponding author

"Molecular Insights into Muscle Homeostasis, Atrophy and Wasting". Scicchitano BM, **Dobrowolny G.**, Sica G. and Musarò A. Current Genomics 2018 Aug; 19 (5);356-369 doi: 10.2174/1389202919666180101153911.

"Muscle expression of $SOD1^{G93A}$ triggers the dismantlement of neuromuscular junction via PKC-theta". **Dobrowolny G.**, Martini M., Scicchitano BM, Romanello V, Boncompagni S, Nicoletti C, Pietrangelo L, De Panfilis S, Catizone A, Bouchè M, Sandri M, Rudolf R, Protasi F, Musarò

A. Antioxid Redox Signal. 2018 Apr 20;28(12):1105-1119. doi: 10.1089/ars.2017.7054.

"Noise Enhances Action Potential Generation in Mouse Sensory Neurons via Stochastic Resonance".Onorato I, D'Alessandro G, Di Castro MA, Renzi M, **Dobrowolny G**, Musarò A, Salvetti M, Limatola C, Crisanti A, Grassi F. PLoSOne. 2016 Aug 15;11(8):e0160950. doi: 10.1371/journal.pone.0160950.

"Progressive impairment of CaV1.1 function in the skeletal muscle of mice expressing a mutant type 1 Cu/Zn superoxide dismutase (G93A) linked to amyotrophic lateral sclerosis".Beqollari D, Romberg CF, **Dobrowolny G**, Martini M, Voss AA, Musarò A, Bannister RA. Skelet Muscle. 2016 23;6:24. doi: 10.1186/s13395-016-0094-6.

"Muscle Expression of SOD1(G93A) Modulates microRNA and mRNA Transcription Pattern Associated with the Myelination Process in the Spinal Cord of Transgenic Mice".**Dobrowolny G**, Bernardini C, Martini M, Baranzini M, Barba M, Musarò A. Front Cell Neurosci. 2015 Dec 1;9:463. doi: 10.3389/fncel.2015.00463.

"Postmitotic Expression of SOD1(G93A) Gene Affects the Identity of Myogenic Cells and Inhibits Myoblasts Differentiation".Martini M*, **Dobrowolny G***, Aucello M, Musarò A. MediatorsInflamm. 2015;2015:537853. doi: 10.1155/2015/537853. Epub 2015 Sep 28.* co-primi autori.

"R-spondin 1/dickkopf-1/beta-catenin machinery is involved in testicular embryonic angiogenesis".Caruso M, Ferranti F, Corano Scheri K, **Dobrowolny G**, Ciccarone F, Grammatico P, Catizone A, Ricci G. PLoSOne. 2015 Apr 24;10(4):e0124213. doi: 10.1371/journal.pone.0124213. eCollection 2015.

"Melatonin down-regulates MDM2 gene expression and enhances p53 acetylation in MCF-7 cells".Proietti S, Cucina A, **Dobrowolny G**, D'Anselmi

F, Dinicola S, Masiello MG, Pasqualato A, Palombo A, Morini V, Reiter RJ, Bizzarri M. J Pineal Res. 2014 Aug;57(1):120-9. doi: 10.1111/jpi.12150.

"Microenvironment promotes tumor cell reprogramming in human breast cancer cell lines".D'Anselmi F, Masiello MG, Cucina A, Proietti S, Dinicola S, Pasqualato A, Ricci G, **Dobrowolny G**, Catizone A, Palombo A, Bizzarri M. PLoSOne. 2013 Dec 30;8(12):e83770. doi: 10.1371/journal.pone.0083770.

"Paracrine effects of IGF-1 overexpression on the functional decline due to skeletal muscle disuse: molecular and functional evaluation in hindlimb unloaded MLC/mIgf-1 transgenic mice".Pierno S, Camerino GM, Cannone M, Liantonio A, De Bellis M, Digennaro C, Gramegna G, De Luca A, Germinario E, Danieli-Betto D, Betto R, **Dobrowolny G**, Rizzuto E, Musarò A, Desaphy JF, Camerino DC. PLoS One. 2013 Jun 3;8(6):e65167. doi: 10.1371/journal.pone.0065167.

"IPLEX administration improves motor neuron survival and ameliorates motor functions in a severe mouse model of spinal muscular atrophy".Murdocca M, Malgieri A, Luchetti A, Saieva L, **Dobrowolny G**, de Leonibus E, Filareto A, Quitadamo MC, Novelli G, Musarò A, Sangiuolo F. MolMed. 2012 Sep 25;18:1076-85. doi: 10.2119/molmed.2012.00056.

"Adaptation of mouse skeletal muscle to long-term microgravity in the MDS mission".Sandonà D, Desaphy JF, Camerino GM, Bianchini E, Ciciliot S, Danieli-Betto D, **Dobrowolny G**, Furlan S, Germinario E, Goto K, Gutsmann M, Kawano F, Nakai N, Ohira T, Ohno Y, Picard A, Salanova M, Schiffl G, Blottner D, Musarò A, Ohira Y, Betto R, Conte D, Schiaffino S. PLoS One. 2012;7(3):e33232. doi: 10.1371/journal.pone.0033232.

"Muscle atrophy induced by SOD1G93A expression does not involve the activation of caspase in the absence of denervation".**Dobrowolny G**, Aucello M, Musarò A. Skelet Muscle. 2011 Jan 24;1(1):3. doi: 10.1186/2044-5040-1-3.

"Muscle involvement and IGF-1 signaling in genetic disorders: new therapeutic approaches".Barberi L, **Dobrowolny G**, Pelosi L, Giacinti C, Musarò A. EndocrDev. 2009;14:29-37. doi: 10.1159/000207474. Review.

"Localized accumulation of oxidative stress causes muscle atrophy through activation of an autophagic pathway".Aucello M, **Dobrowolny G**, Musarò A. Autophagy. 2009 May;5(4):527-9.

"Skeletal muscle is a primary target of SOD1G93A-mediated toxicity".**Dobrowolny G**, Aucello M, Rizzuto E, Beccafico S, Mammucari C, Boncompagni S, Belia S, Wannenes F, Nicoletti C, Del Prete Z, Rosenthal N, Molinaro M, Protasi F, Fanò G, Sandri M, Musarò . Cell Metab. 2008 Nov;8(5):425-36. doi: 10.1016/j.cmet.2008.09.002. Erratum in: Cell Metab. 2009 Jan;9(1):110.

"Local expression of mIgf-1 modulates ubiquitin, caspase and CDK5 expression in skeletal muscle of an ALS mouse model".**Dobrowolny G**, Aucello M, Molinaro M, Musarò A. Neurol Res. 2008 Mar;30(2):131-6. doi: 10.1179/174313208X281235.

"Stem cell-mediated muscle regeneration and repair in aging and neuromuscular diseases". Musarò A, Giacinti C, Pelosi L, Dobrowolny G, Barberi L, Nardis C, Coletti D, Scicchitano BM, Adamo S, Molinaro M. Eur J Histochem. 2007;51 Suppl 1:35-43. Review.

"The neuroprotective effects of a locally acting IGF-1 isoform". Musarò A, Dobrowolny G, Rosenthal N. Exp Gerontol. 2007 Jan-Feb;42(1-2):76-80. Epub 2006 Jun 19. Review.

Muscle expression of a local Igf-1 isoform protects motor neurons in an ALS mouse model". **Dobrowolny G**, Giacinti C, Pelosi L, Nicoletti C, Winn N, Barberi L, Molinaro M, Rosenthal N, Musarò A. J Cell Biol. 2005 Jan 17;168(2):193-9. doi:10.1083/jcb.200407021

"Stem cell-mediated muscle regeneration is enhanced by local isoform of insulin-like growth factor 1". Musarò A, Giacinti C, Borsellino G, **Dobrowolny G**, Pelosi L, Cairns L, Ottolenghi S, Cossu G, Bernardi G, Battistini L, Molinaro M, Rosenthal N. Proc Natl Acad Sci U S A. 2004 Feb 3;101(5):1206-10. doi:10.1073/pnas.0303792101

"Biomonitoring of primary aluminium industry workers: detection of micronuclei and repairable DNA lesions by alkaline SCGE". Crebelli R, Carta P, Andreoli C, Aru G, Dobrowolny G, Rossi S, Zijno A. Mutat Res. 2002 Apr 26;516(1-2):63-70.

"Detection of 1cen--1q12 lesions in different phases of the cell cycle: dual colour FISH analysis of peripheral lymphocytes from subjects with occupational exposure to petroleum fuels". Marcon F, Zijno A, Dobrowolny G, Carere A, Crebelli R. Mutagenesis. 2002 Mar;17(2):157-62.

"Influence of donor age on vinblastine-induced chromosome malsegregation in cultured peripheral lymphocytes". Leopardi P, Marcon F, Dobrowolny G, Zijno A, Crebelli R. Mutagenesis. 2002 Jan;17(1):83-8.

"Localized Igf-1 transgene expression sustains hypertrophy and regeneration in senescent skeletal muscle". Musarò A, McCullagh K, Paul A, Houghton L, Dobrowolny G, Molinaro M, Barton ER, Sweeney HL, Rosenthal N. Nat Genet. 2001 Feb;27(2):195-2001

Editor for Italian edition of "Histology" Alving G. Telser, JK Young, K.M. Baldwin edited by Elsevier Masson.

## Relevant oral contributions

During the scientific activity candidate has been selected for oral communication for the contributions:

-"Local expression of SOD1G93A mutant protein triggers neuromuscular junction dismantlement" 70th national congress SIAI (Società Italiana di Anatomia ed Istologia) Rome 15-17/09/2016

-"Localized accumulation of oxidative stress triggers the dismantlement of neuromuscular junction via PKC-theta". Collegio dei Docenti di Istologia ed Embriologia – Scientific Session 23-02-2018

## Editorial activity

-Member of the Editorial Board of "Scientific Report"-Springer Nature 2024
-Member of the Editorial Board of Stem Cell Research as Review Editor for Frontiers in Cell and Developmental Biology, Frontiers in Genetics, Frontiers in Oncology and Frontiers in Bioengineering and Biotechnology 2024
-Guest Editor for Cells in the special issue The Role of Skeletal Muscle in Neuromuscular Diseases: From Cellular and Molecular Players to Therapeutic Interventions-2021
-Guest Editor for the International Journal of Molecular Sciences in the special issue "Skeletal Muscle Wasting, Regeneration, and Stem Cells",
-Referee activity for PLOS ONE, Experimental Gerontology Scientific Reports international journals and for the Research Fund - Flanders (FWO) - Fund for Scientific Research
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Rome, 7th April 2025