
BIOGRAPHICAL SKETCH

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NAME: **NICOLETTI Carmine**

POSITION TITLE: **Laboratory Technician** (specialized in histology, rodents management and surgery)

EDUCATION/TRAINING

INSTITUTION AND LOCATION	DEGREE (if applicable)	Completion Date MM/YYYY	FIELD OF STUDY
Professional Institute for Cinematography and Television- "R.Rossellini"		07/1991	Photography

Positions and Employment

1992-1996 Photographer on Agenzia Roberto Brandi S.r.l. for Italian newspapers.
1997-2005 Assistant technician in animal facility, Institute of Health of Rome.
2000-2007 Assistant technician in animal facility, Sapienza University of Rome.
2007-present Technician for Dep. of Histology and Embryology, Sapienza University of Rome.

Professional experience

1997-1999 Assistant in courses for laboratory animal welfare organized by Institute of Health of Rome.
1999-2005 Instructor in courses for laboratory animal welfare and surgery organized by Institute of Health of Rome.
2000-2007 Training in surgery and microsurgery in laboratory animal, Sapienza University of Rome.
2007-present Updating courses for animal welfare and "3R" organized by National Institute of Health.

Expertises

Managing colonies of rodents;
Anesthesia, Analgesia and Euthanasia;
Colors and histological preparations;
Surgery and Microsurgery in laboratory animal:
 Injury for muscular regeneration; Nephrectomy; Splenectomy; Ovariectomy;
 Vasectomy; Insertion of osmotic pumps; Bile duct ligation; Left coronary ligation;
 Coarctation of the aorta; Insertion of scaffolds; Dosage of medicines; Blood pressure; Treadmill test; Grip test; Transplantation in femoral artery; Systemic injury; Muscular denervation; Sutures.

Publications (h index = 12 by Scopus; 14 by Google Scholar)

1. Dobrowolny G, Giacinti C, Pelosi L, Nicoletti C, Winn N, Barberi L, Molinaro M, Rosenthal N, Musarò A. Muscle expression of a local Igf-1 isoform protects motor neurons in an ALS mouse model. *J Cell Biol.* 2005;168:193-9.
2. Denti MA, Rosa A, D'Antona G, Sthandier O, De Angelis FG, Nicoletti C, Allocca M, Pansarasa O, Parente V, Musarò A, Auricchio A, Bottinelli R, Bozzoni I. Body-wide gene therapy of Duchenne muscular dystrophy in the mdx mouse model. *Proc Natl Acad Sci U S A.* 2006; 103:3758-63.
3. Denti MA, Rosa A, D'Antona G, Sthandier O, Angelis FG, Nicoletti C, Allocca M, Pansarasa O, Parente V, Musarò A, Auricchio A, Bottinelli R, Bozzoni I. Chimeric Adeno-Associated Virus/Antisense U1 Small Nuclear RNA Effectively Rescues Dystrophin Synthesis and Muscle Function by Local Treatment of mdx Mice. *Human Gene Ther.* 2006 17: 1-10.
4. Pelosi L, Giacinti C, Nardis C, Borsellino G, Rizzuto E, Nicoletti C, Wannenes F, Battistini L, Rosenthal N, Molinaro M, Musarò A. Local expression of IGF-1 accelerates muscle regeneration by rapidly modulating inflammatory cytokines and chemokines. *FASEB J.* 2007; 21:1393-402.
5. Zaccagnini G, Martelli F, Magenta A, Cencioni C, Fasanaro P, Nicoletti C, Biglioli P, Pelicci PG, Capogrossi MC. p66(ShcA) and oxidative stress modulate myogenic differentiation and skeletal muscle regeneration after hind limb ischemia. *J Biol Chem.* 2007 Oct 26;282(43):31453-9. Epub 2007 Aug 28.
6. Denti M A, Incitti T, Sthandier O, Nicoletti C, De Angelis F, Rizzuto E, Auricchio A, Musarò A, Bozzoni I. Long-term benefit of AAV/antisense-mediated exon skipping in dystrophic mice. *Human Gene Therap.* 2008; 19:601-8.
7. 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, and Musarò A. Skeletal muscle is a primary target of SOD1G93A -mediated toxicity *Cell Metabolism* 2008; 8:425-36.
8. Cacchiarelli D, Martone J, Girardi E, Cesana M, Incitti T, Morlando M, Nicoletti C, Santini T, Sthandier O, Barberi L, Auricchio A, Musarò A, Bozzoni I. MicroRNAs involved in molecular circuitries relevant for the Duchenne muscular dystrophy pathogenesis are controlled by the dystrophin/nNOS pathway. *Cell Metab.* 2010; 12:341-51.
9. Forte G, Pietronave S, Nardone G, Zamperone A, Magnani E, Pagliari S, Pagliari F, Giacinti C, Nicoletti C, Musaró A, Rinaldi M, Ribezzo M, Comoglio C, Traversa E, Okano T, Minieri M, Prat M, Di Nardo P. Human cardiac progenitor cell grafts as unrestricted source of supernumerary cardiac cells in healthy murine hearts. *Stem Cells.* 2011;29:2051- 61.
10. Nucera E, Nicoletti C, Chiapparino C, Pacello ML, D'Alessio V, Musarò A, De Santis R. AvidinOX for tissue targeted delivery of biotinylated cells. *Int J Immunopathol Pharmacol.* 2012; 25:239-46.
11. Madaro L, Pelle A, Nicoletti C, Crupi A, Marrocco V, Bossi G, Soddu S, Bouché M. PKC θ ablation improves healing in a mouse model of muscular dystrophy. *PLoS One.* 2012;7(2):e31515. doi: 10.1371/journal.pone.0031515. Epub 2012 Feb 14.
12. Carosio S, Barberi L, Rizzuto E, Nicoletti C, Prete ZD, Musarò A. Generation of ex vivo-vascularized Muscle Engineered Tissue (X-MET). *Sci Rep.* 2013; 3:1420.
13. Savoia C, Arrabito E, Parente R, Sada L, Madaro L, Nicoletti C, Zezza L, Alonzo A, Rubattu S, Michelini S, Muller DN, Volpe M. The direct renin inhibitor aliskiren improves vascular remodelling in transgenic rats harbouring human renin and angiotensinogen genes. *Clin Sci (Lond).* 2013 Aug;125(4):183-9. doi: 10.1042/CS20120395.
14. Biferi MG, Nicoletti C, Falcone G, Puggioni EM, Passaro N, Mazzola A, Pajalunga D, Zaccagnini G, Rizzuto E, Auricchio A, Zentilin L, De Luca G, Giacca M, Martelli F, Musio A, Musarò A, Crescenzi M. Proliferation of Multiple Cell Types in the Skeletal Muscle Tissue Elicited by Acute p21 Suppression. *Mol Ther.* 2015; 23:885-95.

15. Pelosi, L., Berardinelli MG, De Pasquale L, Nicoletti C, D'Amico A, Carvello F, Moneta GM, Catizone A, Bertini E, De Benedetti F, Musarò A. Functional and Morphological Improvement of Dystrophic Muscle by Interleukin 6 Receptor Blockade, *EBioMedicine* 2015; 2:285-93
16. Pelosi L, Berardinelli MG, Forcina L, Spelta E, Rizzuto E, Nicoletti C, Camilli C, Testa E, Catizone A, De Benedetti F, Musarò A. Increased levels of interleukin-6 exacerbate the dystrophic phenotype in mdx mice. *Hum Mol Genet.* 2015; 24:6041-53
17. Oltolina F, Zamperone A, Colangelo D, Gregoletto L, Reano S, Pietronave S, Merlin S, Talmon M, Novelli E, Diena M, Nicoletti C, Musarò A, Filigheddu N, Follenzi A, Prat M. Human Cardiac Progenitor Spheroids Exhibit Enhanced Engraftment Potential. *PLoS One.* 2015; 10:e0137999.
18. 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 Brief.* 2015 Nov 15;5:1015-21. doi: 10.1016/j.dib.2015.11.016. eCollection 2015 Dec.
19. 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 Jan;75:313-326. doi: 10.1016/j.biomaterials.2015.10.029. Epub 2015 Oct 23.
20. Favia A, Pafumi I, Desideri M, Padula F, Montesano C, Passeri D, Nicoletti C, Orlandi A, Del Bufalo D, Sergi M, Ziparo E, Palombi F, Filippini A. . NAADP-Dependent Ca(2+) Signaling Controls Melanoma Progression, Metastatic Dissemination and Neovascularization. *Sci Rep.* 2016 Jan 6;6:18925. doi: 10.1038/srep18925.
21. Baruffaldi F, Montarras D, Basile V, De Feo L, Badodi S, Ganassi M, Battini R, Nicoletti C, Imbriano C, Musarò A, Molinari S. Dynamic Phosphorylation of the MEF2C α 1 Splice Variant Promotes Skeletal Muscle Regeneration and Hypertrophy. *Stem Cells.* 2016 Sep 10. doi: 10.1002/stem.2495.
22. Franciosa G, Diluvio G, Gaudio FD, Giuli MV, Palermo R, Grazioli P, Campese AF, Talora C, Bellavia D, D'Amati G, Besharat ZM, Nicoletti C, Siebel CW, Choy L, Rustighi A, Sal GD, **Screpanti I**, Checquolo S. Prolyl-isomerase Pin1 controls Notch3 protein expression and regulates T-ALL progression. *Oncogene.* 2016 Sep 8;35(36):4741-51. doi: 10.1038/onc.2016.5. Epub 2016 Feb 15.
23. Giusto M, Barberi L, Di Sario F, Rizzuto E, Nicoletti C, Ascenzi F, Renzi A, Caporaso N, D'Argenio G, Gaudio E, Musarò A, Merli M. Skeletal muscle myopenia in mice model of bile duct ligation and carbon tetrachloride-induced liver cirrhosis. *Physiol Rep.* 2017
24. Rizzuto E, Pisu S, Nicoletti C, Del Prete Z, Musarò A. Measuring Neuromuscular Junction Functionality. *J Vis Exp.* 2017 Aug 6;(126). doi: 10.3791/55227.
25. Pelosi L, Forcina L, Nicoletti C, Scicchitano BM, Musarò A. Increased Circulating Levels of Interleukin-6 Induce Perturbation in Redox-Regulated Signaling Cascades in Muscle of Dystrophic Mice. *Oxid Med Cell Longev.* 2017; 2017:1987218. doi: 10.1155/2017/1987218.
26. 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. Muscle Expression of SOD1G93A Triggers the Dismantlement of Neuromuscular Junction via PKC- θ . *Antioxid Redox Signal.* 2017 Oct 30. doi: 10.1089/ars.2017.7054