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LUCA MUNARON - CURRICULUM VITAE

Born in Torino (Italy) in 1966.

Nationality: Italian

Position: Full Professor of Physiology, University of Torino, IT

HIGHER EDUCATION

1994. Ph.D. in Physiological Sciences (University of Milano, Italy).

1990. Degree in Biological Sciences, 110/110 *cum laude et mentione* (University of Torino).

ACADEMIC CAREER

2018 Full Professor of Physiology (University of Torino).

2004-2018 Associate Professor of Physiology (University of Torino).

1998-2007 Visiting Professor at the University of Valle d'Aosta.

1996-2004 Assistant Professor of Physiology (University of Torino).

1994-1995 Fellowship for the Italian Association for Cancer Research (AIRC).

TEACHING

Supervisor of several master students from different backgrounds (Cell Biology, Biotechnology, Physics).

Supervisor of 8 PhD students (PhD Complex Systems for Life Science, University of Torino).

Coordinator of the following courses:

Cellular Physiology and Biophysics for the master degree course of Cellular and Molecular Biology (CMB, Univ of Torino)

Evolutionary Physiology for the master degree course of Evolution of Animal and Human Behavior (ECAU, Univ of Torino)

Physiology for Sport Science (SUISM, Univ of Torino)

History of evolutionary theory (Astronave Terra) for Scuola di Studi Superiori Ferdinando Rossi (SSST, Univ of Torino)

Cellular and Molecular Biophysics for the master degree course of Industrial Biotechnology (Univ of Torino)

History and Philosophy of Life Sciences for the master of Didactics for Secondary School (SSIS, Univ of Torino)

Didactics on Natural sciences (Faculty of Educational Sciences, Univ of Valle d'Aosta, IT)

General Physiology for the undergraduate courses in Biological Sciences and Natural Sciences (Univ of Torino)

ACADEMIC EXPERIENCES

Memberships

The Italian Society for Cardiovascular Research (SIRC).

The Italian Physiological Society (SIF).

Management board of Nanostructured Interfaces and Surfaces (NIS) Inter-departmental Centre (Univ of Torino).

Scientific Board for the Doctoral School in Life and Health Sciences (Univ of Torino).

Interdepartmental Centre of Systems Biology (Univ of Torino).

Interuniversity Research Centre on Epistemology and History of Life Sciences- Res Viva (Univ of Rome).

Advisory committees for the master degree courses of Cellular and Molecular Biology and Evolution of Animal and Human Behaviour (DBIOS, Univ of Torino).

Member and President of several committees for final Ph.D. discussion (Biology, Engineering).

RESEARCH

- 1990-1997** He worked on the role and properties of mitogenic calcium signals in fibroblasts. Identification and characterization of the role of store-independent calcium entry in the control of cell proliferation.
He was the first to identify the critical role of Arachidonic acid as a key regulator of mitogenic-related calcium signals, providing a detailed biophysical description of the channels involved.
- 1997** He founded the Laboratory of Cellular and Molecular Angiogenesis at the Department of Life Sciences & Systems Biology.
- 1997-present** He provided substantial evidence about the function of voltage-independent calcium signals in the control of endothelial cell proliferation, migration and angiogenesis. In particular, by the use of high-resolution confocal microscopy calcium measurements in living cells, he revealed the existence of proangiogenic calcium microdomains in endothelial cells. He provided a detailed description of the complex intracellular signaling responsible for calcium channel regulation, including arachidonic acid, nitric oxide and the novel gasotransmitter hydrogen sulfide (H₂S). He was one of the first to suggest a role for TRP channels in endothelial cell proliferation. More recently, he focused part of his research on proangiogenic calcium signals in tumor-derived endothelial cells, providing substantial evidence on the differences between endothelial cells from normal tissues and the tumoral endothelium. The experimental data have been successfully employed to provide mathematical models for the quantitative description and prediction of some key features of neovascularization. Current projects range from the intracellular mechanisms responsible for physiological and tumoral neovascularization to the biophysical and molecular characterization and regulation of proangiogenic calcium channels.
- 2006-present** A number of collaborations are ongoing with several industries to integrate basic research with more applied topics, including the role of vascularization in hair growth, bone remodeling and repair and the vascular effects of nutraceuticals in diabetes and metabolic syndrome. Another very recent interest is focused on the interaction between biological tissues and nanoparticles. During his scientific activity he collaborated with several laboratories in Turin, Pavia, NIH (US), Lille (France), Canada.

Current research interests*Ion channels, calcium signaling and angiogenesis*

Intracellular signaling in tumor-derived endothelial cells, with particular interest for the role of calcium channels (collaborations: B.Bussolati, E.Giraud, D. Mancardi, P Cassoni, E Tolosano -Univ. Torino, F.Moccia -Univ.Pavia)

Mathematical Modeling

Biomathematical models for vascularization and angiogenesis (collaborations: Marco Scianna and Luigi Preziosi, Politecnico, Torino)

Skin vascularization

In vitro co-culture approaches for testing natural products of dermatological interest (collaborations: F.Gasparri, Univ. Salerno).

Bone vascularization and biomaterials

In vitro evaluation of biocompatibility of biomaterials for bone and dental implants (collaborations: F.Mussano, Dental School, Univ.Torino).

Nanobiotech

Use of functionalized nanotubes for drug delivering against tumor vascularization (collaborations: S.Visentin, Univ. of Torino).

Member of Editorial Boards of International Journals

Frontiers in Physiology (IF 4.134)

WOS/Pubmed

Guest Editor. Section: Membrane Physiology and Membrane Biophysics

<http://journal.frontiersin.org/journal/physiology>

Recent Patents on Anticancer Drug Discovery (Bentham Science Publishers) (IF 2.956)

WOS/Pubmed

Editorial Board-Regional Editor

<http://benthamscience.com/journals/recent-patents-on-anti-cancer-drug-discovery/#top>

Current Medicinal Chemistry (Bentham Science Publishers) (IF 3,249)

WOS/Pubmed

Guest Editor for 'Hot Topic Intracellular Calcium Signaling: Holding the Balance between Health and Disease' (2012)

<http://benthamscience.com/journals/current-medicinal-chemistry/#top>

World Journal of Biological Chemistry (Baishideng Publishing)

Pubmed

Editorial Board

<https://www.wjgnet.com/1949-8454/index.htm>

Principal investigator of projects financed by the MIUR, University of Torino, Regione Piemonte, Fondazione CRT, Fondazione S. Paolo.

Attended tens of national and international Congresses and Meetings.

Invited speaker and chairman in national and international meetings, workshops, and seminars.

Reviewer for high impact international journals.

Reviewer for research grants (UK, China, United Arab Emirates).

Head and founder of the Laboratory of Cellular and Molecular Angiogenesis (DBIOS, University of Torino)

Scientific supervisor for University-Industry agreements with

Rottapharm-Madaus, Monza, ITA

Meda Pharma, Monza, ITA

Twocare, Torino, ITA

Eltek, Alessandria, ITA

Tiss'you, San Marino
Biomec, Lecco, ITA

Bibliometric parameters

Author of more than 80 full papers on indexed international journals (Last name/corresponding author of >40 papers).

Total citations >2000 (Scopus),

h index 30 (Scopus)

h index 29 (Web of Science)

h index 33 (Google Scholar): included in Top Italian Scientists list for Biomedical Sciences (VIA Academy).

PUBLICATIONS**Full papers on peer-reviewed International Journals**

Bernardini M, Brossa A, Chinigo G, Grolez GP, Trimaglio G, Allart L, Hulot A, Marot G, Genova T, Joshi A, Mattot V, Fromont G, **Munaron L**, Bussolati B, Prevarskaya N, Fiorio Pla A, Gkika D. Transient Receptor Potential Channel Expression Signatures in Tumor-Derived Endothelial Cells: Functional Roles in Prostate Cancer Angiogenesis. *Cancers (Basel)*. 2019 Jul 8;11(7). pii: E956. doi: 10.3390/cancers11070956.

Scarpellino G, Genova T, Avanzato D, Bernardini M, Bianco S, Petrillo S, Tolosano E, de Almeida Vieira JR, Bussolati B, Fiorio Pla A, **Munaron L***. Purinergic Calcium Signals in Tumor-Derived Endothelium. *Cancers (Basel)*. 2019 Jun 1;11(6). pii: E766. doi: 10.3390/cancers11060766.

Bassino E, Gasparri F, **Munaron L**. Natural dietary antioxidants containing flavonoids modulate keratinocytes physiology: In vitro tri-culture models. *J Ethnopharmacol*. 2019 Mar 30;238:111844.

Distasi C, Dionisi M, Ruffinatti FA, Gilardino A, Bardini R, Antoniotti S, Catalano F, Bassino E, **Munaron L**, Martra G & Lovisolo D. The interaction of SiO₂ nanoparticles with the neuronal cell membrane: activation of ionic channels and calcium influx. *Nanomedicine*. 2019 Mar;14(5):575-594.

Scarpellino G, Genova T, **Munaron L***. Purinergic P2X7 Receptor: A Cation Channel Sensitive to Tumor Microenvironment. *Recent Pat Anticancer Drug Discov*. 2019;14(1):32-38.

Bassino E, Gasparri F, **Munaron L**. *Serenoa repens* and N-acetyl glucosamine/milk proteins complex differentially affect the paracrine communication between endothelial and follicle dermal papilla cells. *J Cell Physiol*. 2019 May;234(5):7320-7329.

Luganini A, Di Nardo G, **Munaron L**, Gilardi G, Fiorio Pla A, Gribaudo G. Human cytomegalovirus US21 protein is a viroporin that modulates calcium homeostasis and protects cells against apoptosis. *Proc Natl Acad Sci U S A*. 2018 Dec 26;115(52):E12370-E12377.

Petrillo S, Tolosano E, **Munaron L**, Genova T. Targeting Metabolism to Counteract Tumor Angiogenesis: A Review of Patent Literature. *Recent Pat Anticancer Drug Discov*. 2018;13(4):422-427.

Mussano F, Genova T, Laurenti M, Zicola E, **Munaron L**, Rivolo P, Mandracci P, Carossa S. Early Response of Fibroblasts and Epithelial Cells to Pink-Shaded Anodized Dental Implant Abutments: An In Vitro Study. *Int J Oral Maxillofac Implants*. 2018 May/Jun;33(3):571-579.

Mussano F, Genova T, Petrillo S, Roato I, Ferracini R, **Munaron L**. Osteogenic Differentiation Modulates the Cytokine, Chemokine, and Growth Factor Profile of ASCs and SHED. *Int J Mol Sci*. 2018 May 14;19(5).

Distasi C, Ruffinatti FA, Dionisi M, Antoniotti S, Gilardino A, Croci G, Riva B, Bassino E, Alberto G, Castroflorio E, Incarnato D, Morandi E, Martra G, Oliviero S, **Munaron L**, Lovisolo D. SiO₂ nanoparticles modulate the electrical activity of neuroendocrine cells without exerting genomic effects. *Sci Rep*. 2018 Feb 9;8(1):2760.

Bassino E, Gasparri F, **Munaron L***. Pleiotropic effects of white willow bark and 1,2 decanediol on human adult keratinocytes. *Skin Pharmacol Physiol*. 2018 Nov 8;31(1):10-18.

Mussano F, Genova T, Laurenti M, **Munaron L**, Pirri CF, Rivolo P, Carossa S, Mandracci P. Hydrogenated amorphous silicon coatings may modulate gingival cell response. *Appl Surf Sci* 2018;436:603-612.

Mussano F, Genova T, Serra FG, Carossa M, **Munaron L**, Carossa S. Nano-Pore Size of Alumina Affects Osteoblastic Response. *Int J Mol Sci*. 2018 Feb 9;19(2).

Petrillo S, Chiabrando D, Genova T, Fiorito V, Ingoglia G, Vinchi F, Mussano F, Carossa S, Silengo L, Altruda F, Merlo GR, **Munaron L**, Tolosano E. Heme Accumulation in Endothelial Cells Impairs Angiogenesis by Triggering Paraptosis. *Cell Death Differ*. 2018; 25:573–588.

Bianco S, Mancardi D, Merlino A, Bussolati B, **Munaron L***. Hypoxia and hydrogen sulfide differentially affect normal and tumor-derived vascular endothelium. *Redox Biol*. 2017; 12:499-504.

Genova T, Grolez GP, Camillo C, Bernardini M, Bokhobza A, Richard E, Scianna M, Lemonnier L, Valdembri D, **Munaron L**, Philips MR, Mattot V, Serini G, Prevarskaya N, Gkika D, Fiorio Pla A. TRPM8 inhibits endothelial cell migration via a non-channel function by trapping the small GTPase Rap1. *J Cell Biol*. 2017 Jul 3;216(7):2107-2130.

Mussano F, Genova T, Falzacappa E, Verga, Scopece P, **Munaron L**, Rivolo P, Mandracci P, Benedetti A, Carossa S, Patelli, A. In vitro characterization of two different atmospheric plasma jet chemical functionalizations of titanium surfaces. *Appl Surf Sci*. 2017;409:314-324.

Scianna M, Bassino E, **Munaron L***. An Innovative Assay for the Analysis of In Vitro Endothelial Remodeling: Experimental and Computational Evidence. *J Cell Physiol*. 2017 Feb;232(2):243-248.

Mussano F, Genova T, Rivolo P, Mandracci P, **Munaron L**, Faga MG, Carossa S. Role of Surface Finishing on the in vitro Biological Properties of a Silicon Nitride-Titanium Nitride (Si₃N₄-TiN) Composite. *J Mater Sci* 2017;52:467–77.

Bassino E, Vallariello E, Gasparri F, **Munaron L***. Dermal-Epidermal Cross-Talk: Differential Interactions With Microvascular Endothelial Cells. *J Cell Physiol*. 2017 May;232(5):897-903.

Scianna M, **Munaron L***. Computational Approaches For Translational Oncology: Concepts And Patents. *Recent Pat Anticancer Drug Discov*. 2016;11(4):384-392.

Avanzato D, Genova T, Fiorio Pla A, Bernardini M, Bianco S, Bussolati B, Mancardi D, Giraudo E, Maione F, Cassoni P, Castellano I, **Munaron L***. Activation of P2X7 and P2Y11 purinergic receptors

inhibits migration and normalizes tumor-derived endothelial cells via cAMP signaling. *Sci Rep*. 2016 Sep 2;6:32602.

Mussano F, Genova T, **Munaron L**, Petrillo S, Erovigni F, Carossa S. Cytokine, chemokine, and growth factor profile of platelet-rich plasma. *Platelets*. 2016 Jul;27(5):467-71.

Bassino E, Antoniotti S, Gasparri F, **Munaron L***. Effects of flavonoid derivatives on human microvascular endothelial cells. *Nat Prod Res*. 2016 Mar 2:1-4.

Bassino E, Zanardi A, Gasparri F, **Munaron L***. Effects of the biomimetic peptide Sh-Polypeptide 9 (CG-VEGF) on cocultures of human hair follicle dermal papilla cells and microvascular endothelial cells. *Exp Dermatol*. 2016 Mar;25(3):237-9.

Genova T, **Munaron L**, Carossa S, Mussano F. Overcoming physical constraints in bone engineering: 'the importance of being vascularized'. *J Biomater Appl*. 2016 Feb;30(7):940-51.

Scianna M, Bassino E, **Munaron L***. A cellular Potts model analyzing differentiated cell behavior during in vivo vascularization of a hypoxic tissue. *Comput Biol Med*. 2015 Aug;63:143-56.

Bassino E, Gasparri F, Giannini V, **Munaron L***. Paracrine crosstalk between human hair follicle dermal papilla cells and microvascular endothelial cells. *Exp Dermatol*. 2015 May;24(5):388-90.

Munaron L*. Systems biology of ion channels and transporters in tumor angiogenesis: An omics view. *Biochim Biophys Acta*. 2015 Oct;1848(10 Pt B):2647-56.

Avanzato D, Merlino A, Porrera S, Wang R, **Munaron L***, Mancardi D. Role of calcium channels in the protective effect of hydrogen sulfide in rat cardiomyoblasts. *Cell Physiol Biochem*. 2014;33(4):1205-14.

Fiorio Pla A, **Munaron L**. Functional properties of ion channels and transporters in tumour vascularization. *Philos Trans R Soc Lond B Biol Sci*. 2014 Feb 3;369(1638):20130103.

Moccia F, Tanzi F, **Munaron L**. Endothelial remodelling and intracellular calcium machinery. *Curr Mol Med*. 2014 May;14(4):457-80.

Becchetti A, **Munaron L**, Arcangeli A. The role of ion channels and transporters in cell proliferation and cancer. *Front Physiol*. 2013 Oct 29;4:312.

Munaron L*. Editorial: Intracellular calcium signaling: holding the balance between health and disease. *Curr Med Chem*. 2012;19(34):5765-7.

Munaron L*, Scianna M. Multilevel complexity of calcium signaling: Modeling angiogenesis. *World J Biol Chem*. 2012 Jun 26;3(6):121-6.

Munaron L*, Avanzato D, Moccia F, Mancardi D. Hydrogen sulfide as a regulator of calcium channels. *Cell Calcium*. 2013 Feb;53(2):77-84.

Munaron L*, Arcangeli A. Editorial: ion fluxes and cancer. *Recent Pat Anticancer Drug Discov.* 2013 Jan 1;8(1):1-3.

Munaron L*, Genova T, Avanzato D, Antoniotti S, Fiorio Pla A. Targeting calcium channels to block tumor vascularization. *Recent Pat Anticancer Drug Discov.* 2013 Jan 1;8(1):27-37.

Pupo E, Pla AF, Avanzato D, Moccia F, Cruz JE, Tanzi F, Merlino A, Mancardi D, **Munaron L***. Hydrogen sulfide promotes calcium signals and migration in tumor-derived endothelial cells. *Free Radic Biol Med.* 2011 Nov 1;51(9):1765-73.

Fiorio Pla A, Avanzato D, **Munaron L**, Ambudkar IS. Ion channels and transporters in cancer. 6. Vascularizing the tumor: TRP channels as molecular targets. *Am J Physiol Cell Physiol.* 2012 Jan 1;302(1):C9-15.

Fiorio Pla A, Ong HL, Cheng KT, Brossa A, Bussolati B, Lockwich T, Paria B, **Munaron L**, Ambudkar IS. TRPV4 mediates tumor-derived endothelial cell migration via arachidonic acid-activated actin remodeling. *Oncogene.* 2012 Jan 12;31(2):200-12.

Munaron L*. Shuffling the cards in signal transduction: Calcium, arachidonic acid and mechanosensitivity. *World J Biol Chem.* 2011 Apr 26;2(4):59-66.

Moccia F, Bertoni G, Pla AF, Dragoni S, Pupo E, Merlino A, Mancardi D, **Munaron L**, Tanzi F. Hydrogen sulfide regulates intracellular Ca²⁺ concentration in endothelial cells from excised rat aorta. *Curr Pharm Biotechnol.* 2011 Sep;12(9):1416-26.

Scianna M, **Munaron L**, Preziosi L. A multiscale hybrid approach for vasculogenesis and related potential blocking therapies. *Prog Biophys Mol Biol.* 2011 Aug;106(2):450-62.

Mancardi D, Pla AF, Moccia F, Tanzi F, **Munaron L**. Old and new gasotransmitters in the cardiovascular system: focus on the role of nitric oxide and hydrogen sulfide in endothelial cells and cardiomyocytes. *Curr Pharm Biotechnol.* 2011 Sep;12(9):1406-15.

Fiorio Pla A, Genova T, Pupo E, Tomatis C, Genazzani A, Zaninetti R, **Munaron L***. Multiple roles of protein kinase a in arachidonic acid-mediated Ca²⁺ entry and tumor-derived human endothelial cell migration. *Mol Cancer Res.* 2010 Nov;8(11):1466-76.

Munaron L*, Fiorio Pla A. Endothelial calcium machinery and angiogenesis: understanding physiology to interfere with pathology. *Curr Med Chem.* 2009;16(35):4691-703.

Antoniotti S, Fattori P, Tomatis C, Pessione E, **Munaron L***. Arachidonic acid and calcium signals in human breast tumor-derived endothelial cells: a proteomic study. *J Recept Signal Transduct Res.* 2009;29(5):257-65.

Bussolati B, Ribatti D, **Munaron L**, Bartorelli A, Bussolati G. Anti-angiogenic properties of calcium trifluoroacetate. *Microvasc Res.* 2009 Dec;78(3):272-7.

Aina V, Malavasi G, Fiorio Pla A, **Munaron L**, Morterra C. Zinc-containing bioactive glasses: surface reactivity and behaviour towards endothelial cells. *Acta Biomater.* 2009 May;5(4):1211-22.

Munaron L*, Tomatis C, Fiorio Pla A. The secret marriage between calcium and tumor angiogenesis. *Technol Cancer Res Treat*. 2008 Aug;7(4):335-9.

Fiorio Pla A, Grange C, Antoniotti S, Tomatis C, Merlino A, Bussolati B, **Munaron L***. Arachidonic acid-induced Ca²⁺ entry is involved in early steps of tumor angiogenesis. *Mol Cancer Res*. 2008 Apr;6(4):535-45.

Munaron L*. Intracellular calcium, endothelial cells and angiogenesis. *Recent Pat Anticancer Drug Discov*. 2006 Jan;1(1):105-19.

Tomatis C, Fiorio Pla A, **Munaron L***. Cytosolic calcium microdomains by arachidonic acid and nitric oxide in endothelial cells. *Cell Calcium*. 2007 Mar;41(3):261-9.

Antoniotti S, Fiorio Pla A, Barral S, Scalabrino O, **Munaron L**, Lovisolo D. Interaction between TRPC channel subunits in endothelial cells. *J Recept Signal Transduct Res*. 2006;26(4):225-40.

Cassoni P, Marrocco T, Bussolati B, Allia E, **Munaron L**, Sapino A, Bussolati G. Oxytocin induces proliferation and migration in immortalized human dermal microvascular endothelial cells and human breast tumor-derived endothelial cells. *Mol Cancer Res*. 2006 Jun;4(6):351-9.

Erriquez J, Gilardino A, Ariano P, **Munaron L**, Lovisolo D, Distasi C. Calcium signals activated by arachidonic acid in embryonic chick ciliary ganglion neurons. *Neurosignals*. 2005;14(5):244-54.

Mottola A, Antoniotti S, Lovisolo D, **Munaron L***. Regulation of noncapacitative calcium entry by arachidonic acid and nitric oxide in endothelial cells. *FASEB J*. 2005 Dec;19(14):2075-7.

Munaron L*, Antoniotti S, Lovisolo D. Intracellular calcium signals and control of cell proliferation: how many mechanisms? *J Cell Mol Med*. 2004 Apr-Jun;8(2):161-8.

Munaron L*, Antoniotti S, Fiorio Pla A, Lovisolo D. Blocking Ca²⁺ entry: a way to control cell proliferation. *Curr Med Chem*. 2004 Jun;11(12):1533-43.

Antoniotti S, Fiorio Pla A, Pregolato S, Mottola A, Lovisolo D, **Munaron L***. Control of endothelial cell proliferation by calcium influx and arachidonic acid metabolism: a pharmacological approach. *J Cell Physiol*. 2003 Dec;197(3):370-8.

Munaron L*. Calcium signalling and control of cell proliferation by tyrosine kinase receptors (review). *Int J Mol Med*. 2002 Dec;10(6):671-6.

Cassoni P, Sapino A, Deaglio S, Bussolati B, Volante M, **Munaron L**, Albini A, Torrisi A, Bussolati G. Oxytocin is a growth factor for Kaposi's sarcoma cells: evidence of endocrine-immunological cross-talk. *Cancer Res*. 2002 Apr 15;62(8):2406-13.

Antoniotti S, Lovisolo D, Fiorio Pla A, **Munaron L***. Expression and functional role of bTRPC1 channels in native endothelial cells. *FEBS Lett*. 2002 Jan 16;510(3):189-95.

Fiorio Pla A, **Munaron L***. Calcium influx, arachidonic acid, and control of endothelial cell proliferation. *Cell Calcium*. 2001 Oct;30(4):235-44.

Cassoni P, Sapino A, **Munaron L**, Deaglio S, Chini B, Graziani A, Ahmed A, Bussolati G. Activation of functional oxytocin receptors stimulates cell proliferation in human trophoblast and choriocarcinoma cell lines. *Endocrinology*. 2001 Mar;142(3):1130-6.

Munaron L*, Fiorio Pla A. Calcium influx induced by activation of tyrosine kinase receptors in cultured bovine aortic endothelial cells. *J Cell Physiol*. 2000 Dec;185(3):454-63.

Distasi C, Torre M, Antoniotti S, **Munaron L**, Lovisolo D. Neuronal survival and calcium influx induced by basic fibroblast growth factor in chick ciliary ganglion neurons. *Eur J Neurosci*. 1998 Jul;10(7):2276-86.

Munaron L*, Antoniotti S, Distasi C, Lovisolo D. Arachidonic acid mediates calcium influx induced by basic fibroblast growth factor in Balb-c 3T3 fibroblasts. *Cell Calcium*. 1997 Sep;22(3):179-88.

Cassoni P, Sapino A, Fortunati N, **Munaron L**, Chini B, Bussolati G. Oxytocin inhibits the proliferation of MDA-MB231 human breast-cancer cells via cyclic adenosine monophosphate and protein kinase A. *Int J Cancer*. 1997 Jul 17;72(2):340-4.

Lovisolo D, Distasi C, Antoniotti S, **Munaron L***. Mitogens and calcium channels *News Physiol Sci*. 1997 Dec;12(6):279-285

Barbiero G, **Munaron L**, Antoniotti S, Baccino FM, Bonelli G, Lovisolo D. Role of mitogen-induced calcium influx in the control of the cell cycle in Balb-c 3T3 fibroblasts. *Cell Calcium*. 1995 Dec;18(6):542-56.

Munaron L, Distasi C, Carabelli V, Baccino FM, Bonelli G, Lovisolo D. Sustained calcium influx activated by basic fibroblast growth factor in Balb-c 3T3 fibroblasts. *J Physiol*. 1995 May 1;484(3):557-66.

Distasi C, **Munaron L**, Laezza F, Lovisolo D. Basic fibroblast growth factor opens calcium-permeable channels in quail mesencephalic neural crest neurons. *Eur J Neurosci*. 1995 Mar 1;7(3):516-20.

Lovisolo D, **Munaron L**, Baccino FM, Bonelli G. Potassium and calcium currents activated by foetal calf serum in Balb-c 3T3 fibroblasts. *Biochim Biophys Acta*. 1992 Dec 9;1112(2):241-5.

Lovisolo D, Bonelli G, Baccino FM, Peres A, Alonzo F, **Munaron L**. Two currents activated by epidermal growth factor in EGFR-T17 fibroblasts. *Biochim Biophys Acta*. 1992 Feb 17;1104(1):73-82.

Gandino L, **Munaron L**, Naldini L, Ferracini R, Magni M, Comoglio PM. Intracellular calcium regulates the tyrosine kinase receptor encoded by the MET oncogene. *J Biol Chem*. 1991 Aug 25;266(24):16098-104.

Articles in books

Mussano F, Genova T, **Munaron L**, Faga MG, Carossa S. Ceramic Biomaterials for Dental Implants: Current Use and Future Perspectives. In Dental implantology and Biomaterial. Chapter 4, 63-90, Intech 2016.

Munaron L*. 'Calcium signaling and angiogenesis' in Topics in Anti-Cancer Research, Bentham Science Publ. Vol 3, 179-201, 2014.

Munaron L*. 'Calcium Signals in Endothelium and their Role in the Control of Angiogenesis' in Frontiers in Anti-Cancer Drug Discovery, Bentham Science Publ. Vol 1 194-218, 2010.

Munaron L*. 'Arachidonic Acid and Store-Independent Calcium Entry', in Calcium Signaling: Regulation, Mechanisms, Effectors, Role in Disease and Recent Advances, Ed. Simpson, A., The Biomedical & Life Sciences Collection, Henry Stewart Talks Ltd, London (online at <http://www.hstalks.com/bio>), 2007.

Munaron L*, Antoniotti S., Fiorio Pla A., Lovisolo D. 'Potentiality and Limitations of a Strategy for the Control of Cell Proliferation: The Block of Ca²⁺ Entry', in Frontiers in Medicinal Chemistry, Bentham Science Publ, 3, 417-433, 2006.

Munaron L*. 'Calcium and angiogenesis' in New angiogenesis research, ed. Zubar RV, NOVA Publishers, 131-156, 2005.

Lovisolo D., Antoniotti S., Distasi C., Fiorio Pla A., Gilardino A. & **Munaron L**. 'Growth factors and calcium fluxes', in Recent research developments in biophysical chemistry, Ed. Condat & Baruzzi, Research SignPost, 57-68, 2002.

Munaron L* & Fiorio Pla A. 'Non capacitative calcium signals activated by arachidonic acid in non excitable cells', in Calcium signaling, Ed. Morad & Kostyuk, IOS Press, 265-268, 2001.

Corresponding author*Books in Italian**

- *Fisiologia Evolutiva. Riflessioni su stabilità e modificazione nei viventi*, Franco Angeli Editore, 2019.
- *Fisiologia della Cellula* (with Davide Lovisolo), Bollati Boringhieri, 2003.
- *Dizionario di Biologia* (Multiple authors, curated by Aldo Fasolo), UTET, 2003.

Book reviews on 'L'Indice dei libri del mese' (Italian)

Il nonno di Charles. 2019

Un incontro mai avvenuto. 2019

Mio caro Neandertal. 2018
Il grande balzo in avanti. 2017
Tra Ippocrate e Galeno. 2017
Caprelli e lupocani come modelli matematici. 2016
Cinque anni sul Beagle. 2006
L'impero della vita. 2005
Modifiche nel sistema operativo. 2004
I casi della vita. 2004
Discipline anfibie. 2004
Perchè ricordare Darwin. 2004
Morale darwiniana. 2003
Tempeste biogenetiche. 2002
Fisiologia ottocentesca. 2001

Dissemination activities (Italian)

I Big Data E La Crisi Della Riproducibilità. Biologia e ricadute applicative. Accademia delle Scienze di Torino 2019 (speaker).

Nanomateriali e biotecnologie mediche. Le frontiere della biologia: una proposta formativa per gli insegnanti delle scuole superiori di secondo grado. Torino 2018 (speaker).

Il puzzle della vascolarizzazione nei tumori e la crisi della medicina classica. Il edizione Torino Incontra, Biblioteca Calvino 2016 (speaker).

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