

# Luca M Munaron

## List of Publications by Year in descending order

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106  
papers

3,544  
citations

109321

35  
h-index

161849

54  
g-index

112  
all docs

112  
docs citations

112  
times ranked

3971  
citing authors

#	ARTICLE	IF	CITATIONS
1	Zinc-containing bioactive glasses: Surface reactivity and behaviour towards endothelial cells. <i>Acta Biomaterialia</i> , 2009, 5, 1211-1222.	8.3	165
2	TRPV4 mediates tumor-derived endothelial cell migration via arachidonic acid-activated actin remodeling. <i>Oncogene</i> , 2012, 31, 200-212.	5.9	153
3	Cytokine, chemokine, and growth factor profile of platelet-rich plasma. <i>Platelets</i> , 2016, 27, 467-471.	2.3	126
4	Intracellular Calcium, Endothelial Cells and Angiogenesis. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2006, 1, 105-119.	1.6	114
5	Intracellular calcium signals and control of cell proliferation: how many mechanisms?. <i>Journal of Cellular and Molecular Medicine</i> , 2004, 8, 161-168.	3.6	102
6	Hydrogen sulfide promotes calcium signals and migration in tumor-derived endothelial cells. <i>Free Radical Biology and Medicine</i> , 2011, 51, 1765-1773.	2.9	83
7	Endothelial Calcium Machinery and Angiogenesis: Understanding Physiology to Interfere with Pathology. <i>Current Medicinal Chemistry</i> , 2009, 16, 4691-4703.	2.4	79
8	Heme accumulation in endothelial cells impairs angiogenesis by triggering paraptosis. <i>Cell Death and Differentiation</i> , 2018, 25, 573-588.	11.2	78
9	Oxytocin inhibits the proliferation of MDA-MB231 human breast-cancer cells via cyclic adenosine monophosphate and protein kinase A. , 1997, 72, 340-344.		77
10	Blocking Ca <sup>2+</sup> Entry: A Way to Control Cell Proliferation. <i>Current Medicinal Chemistry</i> , 2004, 11, 1533-1543.	2.4	76
11	Endothelial Remodelling and Intracellular Calcium Machinery. <i>Current Molecular Medicine</i> , 2014, 14, 457-480.	1.3	72
12	Hydrogen Sulfide and Endothelial Dysfunction: Relationship with Nitric Oxide. <i>Current Medicinal Chemistry</i> , 2014, 21, 3646-3661.	2.4	71
13	Expression and functional role of bTRPC1 channels in native endothelial cells. <i>FEBS Letters</i> , 2002, 510, 189-195.	2.8	70
14	Arachidonic acid mediates calcium influx induced by basic fibroblast growth factor in Balb-c 3T3 fibroblasts. <i>Cell Calcium</i> , 1997, 22, 179-188.	2.4	69
15	Arachidonic Acid-Induced Ca <sup>2+</sup> Entry Is Involved in Early Steps of Tumor Angiogenesis. <i>Molecular Cancer Research</i> , 2008, 6, 535-545.	3.4	69
16	Oxytocin Induces Proliferation and Migration in Immortalized Human Dermal Microvascular Endothelial Cells and Human Breast Tumor-Derived Endothelial Cells. <i>Molecular Cancer Research</i> , 2006, 4, 351-359.	3.4	68
17	TRPM8 inhibits endothelial cell migration via a non-channel function by trapping the small GTPase Rap1. <i>Journal of Cell Biology</i> , 2017, 216, 2107-2130.	5.2	66
18	Hydrogen sulfide as a regulator of calcium channels. <i>Cell Calcium</i> , 2013, 53, 77-84.	2.4	61

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19	Hydrogen sulphide triggers VEGF-induced intracellular Ca <sup>2+</sup> signals in human endothelial cells but not in their immature progenitors. <i>Cell Calcium</i> , 2014, 56, 225-234.	2.4	59
20	Control of endothelial cell proliferation by calcium influx and arachidonic acid metabolism: A pharmacological approach. <i>Journal of Cellular Physiology</i> , 2003, 197, 370-378.	4.1	58
21	Activation of P2X7 and P2Y11 purinergic receptors inhibits migration and normalizes tumor-derived endothelial cells via cAMP signaling. <i>Scientific Reports</i> , 2016, 6, 32602.	3.3	57
22	Ion channels and transporters in cancer. 6. Vascularizing the tumor: TRP channels as molecular targets. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C9-C15.	4.6	56
23	Intracellular calcium regulates the tyrosine kinase receptor encoded by the MET oncogene. <i>Journal of Biological Chemistry</i> , 1991, 266, 16098-16104.	3.4	54
24	Hydrogen Sulfide Regulates Intracellular Ca <sup>2+</sup> Concentration in Endothelial Cells From Excised Rat Aorta. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1416-1426.	1.6	53
25	Activation of Functional Oxytocin Receptors Stimulates Cell Proliferation in Human Trophoblast and Choriocarcinoma Cell Lines*. <i>Endocrinology</i> , 2001, 142, 1130-1136.	2.8	52
26	Calcium influx, arachidonic acid, and control of endothelial cell proliferation. <i>Cell Calcium</i> , 2001, 30, 235-244.	2.4	52
27	A multiscale hybrid approach for vasculogenesis and related potential blocking therapies. <i>Progress in Biophysics and Molecular Biology</i> , 2011, 106, 450-462.	2.9	51
28	Calcium signalling and control of cell proliferation by tyrosine kinase receptors (review). <i>International Journal of Molecular Medicine</i> , 2002, 10, 671-6.	4.0	48
29	Calcium influx induced by activation of tyrosine kinase receptors in cultured bovine aortic endothelial cells. <i>Journal of Cellular Physiology</i> , 2000, 185, 454-463.	4.1	46
30	A Functional Transient Receptor Potential Vanilloid 4 (TRPV4) Channel Is Expressed in Human Endothelial Progenitor Cells. <i>Journal of Cellular Physiology</i> , 2015, 230, 95-104.	4.1	45
31	Intracellular calcium regulates the tyrosine kinase receptor encoded by the MET oncogene. <i>Journal of Biological Chemistry</i> , 1991, 266, 16098-104.	3.4	45
32	The role of ion channels and transporters in cell proliferation and cancer. <i>Frontiers in Physiology</i> , 2013, 4, 312.	2.8	41
33	Proanthocyanidins and Where to Find Them: A Meta-Analytic Approach to Investigate Their Chemistry, Biosynthesis, Distribution, and Effect on Human Health. <i>Antioxidants</i> , 2021, 10, 1229.	5.1	41
34	Old and New Gasotransmitters in the Cardiovascular System: Focus on the Role of Nitric Oxide and Hydrogen Sulfide in Endothelial Cells and Cardiomyocytes. <i>Current Pharmaceutical Biotechnology</i> , 2011, 12, 1406-1415.	1.6	39
35	Multiple Roles of Protein Kinase A in Arachidonic Acid-Mediated Ca <sup>2+</sup> Entry and Tumor-Derived Human Endothelial Cell Migration. <i>Molecular Cancer Research</i> , 2010, 8, 1466-1476.	3.4	37
36	The Crosstalk Between Osteodifferentiating Stem Cells and Endothelial Cells Promotes Angiogenesis and Bone Formation. <i>Frontiers in Physiology</i> , 2019, 10, 1291.	2.8	36

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37	Role of mitogen-induced calcium influx in the control of the cell cycle in Balb-c 3T3 fibroblasts. <i>Cell Calcium</i> , 1995, 18, 542-556.	2.4	35
38	Paracrine crosstalk between human hair follicle dermal papilla cells and microvascular endothelial cells. <i>Experimental Dermatology</i> , 2015, 24, 388-390.	2.9	34
39	Role of Calcium Channels in the Protective Effect of Hydrogen Sulfide in Rat Cardiomyoblasts. <i>Cellular Physiology and Biochemistry</i> , 2014, 33, 1205-1214.	1.6	33
40	Sustained calcium influx activated by basic fibroblast growth factor in Balb-c 3T3 fibroblasts.. <i>Journal of Physiology</i> , 1995, 484, 557-566.	2.9	32
41	Regulation of noncapacitative calcium entry by arachidonic acid and nitric oxide in endothelial cells. <i>FASEB Journal</i> , 2005, 19, 2075-2077.	0.5	31
42	Functional properties of ion channels and transporters in tumour vascularization. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130103.	4.0	31
43	Overcoming physical constraints in bone engineering: "the importance of being vascularized"™. <i>Journal of Biomaterials Applications</i> , 2016, 30, 940-951.	2.4	31
44	Osteogenic Differentiation Modulates the Cytokine, Chemokine, and Growth Factor Profile of ASCs and SHED. <i>International Journal of Molecular Sciences</i> , 2018, 19, 1454.	4.1	31
45	Neuronal survival and calcium influx induced by basic fibroblast growth factor in chick ciliary ganglion neurons. <i>European Journal of Neuroscience</i> , 1998, 10, 2276-2286.	2.6	29
46	Interaction Between TRPC Channel Subunits in Endothelial Cells. <i>Journal of Receptor and Signal Transduction Research</i> , 2006, 26, 225-240.	2.5	29
47	Calcium signalling and control of cell proliferation by tyrosine kinase receptors (Review). <i>International Journal of Molecular Medicine</i> , 2002, 10, 671.	4.0	27
48	Cytosolic calcium microdomains by arachidonic acid and nitric oxide in endothelial cells. <i>Cell Calcium</i> , 2007, 41, 261-269.	2.4	27
49	Systems biology of ion channels and transporters in tumor angiogenesis: An omics view. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2015, 1848, 2647-2656.	2.6	27
50	Early Response of Fibroblasts and Epithelial Cells to Pink-Shaded Anodized Dental Implant Abutments: An In Vitro Study. <i>International Journal of Oral and Maxillofacial Implants</i> , 2018, 33, 571-579.	1.4	27
51	Transient Receptor Potential Channel Expression Signatures in Tumor-Derived Endothelial Cells: Functional Roles in Prostate Cancer Angiogenesis. <i>Cancers</i> , 2019, 11, 956.	3.7	27
52	The Secret Marriage between Calcium and Tumor Angiogenesis. <i>Technology in Cancer Research and Treatment</i> , 2008, 7, 335-339.	1.9	26
53	Understanding the heart-brain axis response in COVID-19 patients: A suggestive perspective for therapeutic development. <i>Pharmacological Research</i> , 2021, 168, 105581.	7.1	26
54	Protective Role of Nutritional Plants Containing Flavonoids in Hair Follicle Disruption: A Review. <i>International Journal of Molecular Sciences</i> , 2020, 21, 523.	4.1	25

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55	In vitro characterization of two different atmospheric plasma jet chemical functionalizations of titanium surfaces. <i>Applied Surface Science</i> , 2017, 409, 314-324.	6.1	24
56	Human cytomegalovirus US21 protein is a viroporin that modulates calcium homeostasis and protects cells against apoptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E12370-E12377.	7.1	24
57	Shuffling the cards in signal transduction: Calcium, arachidonic acid and mechanosensitivity. <i>World Journal of Biological Chemistry</i> , 2011, 2, 59.	4.3	23
58	Nano-Pore Size of Alumina Affects Osteoblastic Response. <i>International Journal of Molecular Sciences</i> , 2018, 19, 528.	4.1	22
59	Bioactive Triterpenes of Protium heptaphyllum Gum Resin Extract Display Cholesterol-Lowering Potential. <i>International Journal of Molecular Sciences</i> , 2021, 22, 2664.	4.1	22
60	Role of surface finishing on the in vitro biological properties of a silicon nitride-titanium nitride (Si <sub>3</sub> N <sub>4</sub> -TiN) composite. <i>Journal of Materials Science</i> , 2017, 52, 467-477.	3.7	20
61	Purinergic Calcium Signals in Tumor-Derived Endothelium. <i>Cancers</i> , 2019, 11, 766.	3.7	20
62	Purinergic P2X7 Receptor: A Cation Channel Sensitive to Tumor Microenvironment. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2019, 14, 32-38.	1.6	20
63	Basic Fibroblast Growth Factor Opens Calcium-Permeable Channels in Quail Mesencephalic Neural Crest Neurons. <i>European Journal of Neuroscience</i> , 1995, 7, 516-520.	2.6	19
64	Hypoxia and hydrogen sulfide differentially affect normal and tumor-derived vascular endothelium. <i>Redox Biology</i> , 2017, 12, 499-504.	9.0	18
65	Oral Cavity as a Source of Mesenchymal Stem Cells Useful for Regenerative Medicine in Dentistry. <i>Biomedicines</i> , 2021, 9, 1085.	3.2	18
66	Activation of Functional Oxytocin Receptors Stimulates Cell Proliferation in Human Trophoblast and Choriocarcinoma Cell Lines. <i>Endocrinology</i> , 2001, 142, 1130-1136.	2.8	18
67	Targeting Calcium Channels to Block Tumor Vascularization. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2012, 8, 27-37.	1.6	16
68	A cellular Potts model analyzing differentiated cell behavior during in vivo vascularization of a hypoxic tissue. <i>Computers in Biology and Medicine</i> , 2015, 63, 143-156.	7.0	16
69	Two currents activated by epidermal growth factor in EGFR-T17 fibroblasts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1104, 73-82.	2.6	15
70	Hydrogenated amorphous silicon coatings may modulate gingival cell response. <i>Applied Surface Science</i> , 2018, 436, 603-612.	6.1	15
71	Targeting Calcium Channels to Block Tumor Vascularization. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2012, 8, 27-37.	1.6	15
72	Multilevel complexity of calcium signaling: Modeling angiogenesis. <i>World Journal of Biological Chemistry</i> , 2012, 3, 121.	4.3	13

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73	Regulation of Vessel Permeability by TRP Channels. <i>Frontiers in Physiology</i> , 2020, 11, 421.	2.8	12
74	Targeting Metabolism to Counteract Tumor Angiogenesis: A Review of Patent Literature. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2018, 13, 422-427.	1.6	11
75	Calcium-Permeable Channels in Tumor Vascularization: Peculiar Sensors of Microenvironmental Chemical and Physical Cues. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2020, , 1.	1.6	11
76	Potassium and calcium currents activated by foetal calf serum in Balb-c 3T3 fibroblasts. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1992, 1112, 241-245.	2.6	10
77	Effects of flavonoid derivatives on human microvascular endothelial cells. <i>Natural Product Research</i> , 2016, 30, 2831-2834.	1.8	10
78	Natural dietary antioxidants containing flavonoids modulate keratinocytes physiology: In vitro tri-culture models. <i>Journal of Ethnopharmacology</i> , 2019, 238, 111844.	4.1	10
79	Alternative Strategies to Inhibit Tumor Vascularization. <i>International Journal of Molecular Sciences</i> , 2019, 20, 6180.	4.1	10
80	Calcium Signals Activated by Arachidonic Acid in Embryonic Chick Ciliary Ganglion Neurons. <i>NeuroSignals</i> , 2005, 14, 244-254.	0.9	9
81	SiO <sub>2</sub> nanoparticles modulate the electrical activity of neuroendocrine cells without exerting genomic effects. <i>Scientific Reports</i> , 2018, 8, 2760.	3.3	9
82	Isolation and Characterization of Buccal Fat Pad and Dental Pulp MSCs from the Same Donor. <i>Biomedicines</i> , 2021, 9, 265.	3.2	9
83	Effects of the biomimetic peptide Shâ€Polypeptide 9 (<scp>CG</scp>â€<scp>VEGF</scp>) on cocultures of human hair follicle dermal papilla cells and microvascular endothelial cells. <i>Experimental Dermatology</i> , 2016, 25, 237-239.	2.9	8
84	Beta1-integrin and TRPV4 are involved in osteoblast adhesion to different titanium surface topographies. <i>Applied Surface Science</i> , 2020, 507, 145112.	6.1	8
85	Pleiotropic Effects of White Willow Bark and 1,2-Decanediol on Human Adult Keratinocytes. <i>Skin Pharmacology and Physiology</i> , 2018, 31, 10-18.	2.5	7
86	The interaction of SiO <sub>2</sub> nanoparticles with the neuronal cell membrane: activation of ionic channels and calcium influx. <i>Nanomedicine</i> , 2019, 14, 575-594.	3.3	7
87	Editorial [Hot Topic Intracellular Calcium Signaling: Holding the Balance between Health and Disease Guest Editor: Luca Munaron]. <i>Current Medicinal Chemistry</i> , 2012, 19, 5765-5767.	2.4	6
88	Dermalâ€Epidermal Crossâ€Talk: Differential Interactions With Microvascular Endothelial Cells. <i>Journal of Cellular Physiology</i> , 2017, 232, 897-903.	4.1	6
89	A Tridimensional Model of Proangiogenic Calcium Signals in Endothelial Cells. <i>The Open Biology Journal</i> , 2009, 2, 114-129.	0.5	6
90	Editorial [Hot Topic Ion Fluxes and Cancer (Guest Editors: Luca Munaron and Annarosa Arcangeli)]. <i>Recent Patents on Anti-Cancer Drug Discovery</i> , 2012, 8, 1-3.	1.6	6

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91	Editorial [Hot Topic Ion Fluxes and Cancer (Guest Editors: Luca Munaron and Annarosa Arcangeli)]. Recent Patents on Anti-Cancer Drug Discovery, 2012, 8, 1-3.	1.6	5
92	Ceramic Biomaterials for Dental Implants: Current Use and Future Perspectives. , 0, , .		5
93	MORPHEUS: An automated tool for unbiased and reproducible cell morphometry. Journal of Cellular Physiology, 2020, 235, 10110-10115.	4.1	5
94	Endothelial Heme Dynamics Drive Cancer Cell Metabolism by Shaping the Tumor Microenvironment. Biomedicines, 2021, 9, 1557.	3.2	5
95	P2X Purinergic Receptors Are Multisensory Detectors for Micro-Environmental Stimuli That Control Migration of Tumoral Endothelium. Cancers, 2022, 14, 2743.	3.7	5
96	A Transcriptomic Approach Reveals Selective Ribosomal Remodelling in the Tumour Versus the Stromal Compartment of Metastatic Colorectal Cancer. Cancers, 2021, 13, 4188.	3.7	4
97	Multiscale model of tumor-derived capillary-like network formation. Networks and Heterogeneous Media, 2011, 6, 597-624.	1.1	4
98	Arachidonic acid and calcium signals in human breast tumor-derived endothelial cells: a proteomic study. Journal of Receptor and Signal Transduction Research, 2009, 29, 257-265.	2.5	3
99	Serenoa repens and N-acetyl glucosamine/milk proteins complex differentially affect the paracrine communication between endothelial and follicle dermal papilla cells. Journal of Cellular Physiology, 2019, 234, 7320-7329.	4.1	3
100	Computational Approaches for Translational Oncology: Concepts and Patents. Recent Patents on Anti-Cancer Drug Discovery, 2016, 11, 384-392.	1.6	3
101	Endothelial Cells Promote Osteogenesis by Establishing a Functional and Metabolic Coupling With Human Mesenchymal Stem Cells. Frontiers in Physiology, 2021, 12, 813547.	2.8	3
102	Anti-angiogenic properties of calcium trifluoroacetate. Microvascular Research, 2009, 78, 272-277.	2.5	1
103	Editorial: Mechanisms of Vessel Development: From a Primitive Draft to a Mature Vasculature. Frontiers in Physiology, 2021, 12, 725531.	2.8	1
104	Calcium influx induced by activation of tyrosine kinase receptors in cultured bovine aortic endothelial cells. , 2000, 185, 454.		1
105	The Transcriptional Landscape of BRAF Wild Type Metastatic Melanoma: A Pilot Study. International Journal of Molecular Sciences, 2022, 23, 6898.	4.1	1
106	An Innovative Assay for the Analysis of In Vitro Endothelial Remodeling: Experimental and Computational Evidence. Journal of Cellular Physiology, 2017, 232, 243-248.	4.1	0