Jacopo Meldolesi

List of Publications by Year in descending order

129 papers	13,833 citations	38720 50 h-index	20343 116 g-index
131 all docs	131 docs citations	131 times ranked	15825 citing authors

#	Article	IF	Citations
1	Cancer Stem Cells and Their Vesicles, Together with Other Stem and Non-Stem Cells, Govern Critical Cancer Processes: Perspectives for Medical Development. International Journal of Molecular Sciences, 2022, 23, 625.	1.8	5
2	News about Therapies of Alzheimerâ€™s Disease: Extracellular Vesicles from Stem Cells Exhibit Advantages Compared to Other Treatments. Biomedicines, 2022, 10, 105.	1.4	9
3	News about the Role of Fluid and Imaging Biomarkers in Neurodegenerative Diseases. Biomedicines, 2021, 9, 252.	1.4	12
4	Extracellular Vesicles of Mesenchymal Stem Cells: Therapeutic Properties Discovered with Extraordinary Success. Biomedicines, 2021, 9, 667.	1.4	39
5	Extracellular vesicles (exosomes and ectosomes) play key roles in the pathology of brain diseases. Molecular Biomedicine, 2021, 2, 18.	1.7	17
6	News about the Role of the Transcription Factor REST in Neurons: From Physiology to Pathology. International Journal of Molecular Sciences, 2020, 21, 235.	1.8	20
7	Astrocytes: News about Brain Health and Diseases. Biomedicines, 2020, 8, 394.	1.4	20
8	Gene Expression in the Physiology and Pathology of Neurons. International Journal of Molecular Sciences, 2020, 21, 5716.	1.8	0
9	Alternative Splicing by NOVA Factors: From Gene Expression to Cell Physiology and Pathology. International Journal of Molecular Sciences, 2020, 21, 3941.	1.8	22
10	Alzheimerâ€™s disease: Key developments support promising perspectives for therapy. Pharmacological Research, 2019, 146, 104316.	3.1	17
11	Extracellular vesicles, news about their role in immune cells: physiology, pathology and diseases. Clinical and Experimental Immunology, 2019, 196, 318-327.	1.1	40
12	News about non-secretory exocytosis: mechanisms, properties, and functions. Journal of Molecular Cell Biology, 2019, 11, 736-746.	1.5	7
13	Exosomes and Ectosomes in Intercellular Communication. Current Biology, 2018, 28, R435-R444.	1.8	600
14	Neurotrophin receptors in the pathogenesis, diagnosis and therapy of neurodegenerative diseases. Pharmacological Research, 2017, 121, 129-137.	3.1	41
15	Neurotrophin Trk Receptors: New Targets for Cancer Therapy. Reviews of Physiology, Biochemistry and Pharmacology, 2017, 174, 67-79.	0.9	45
16	Ectosomes and Exosomes-Two Extracellular Vesicles That Differ Only in Some Details. Biochemistry & Molecular Biology Journal, 2016, 02, .	0.3	12
17	Binding and Fusion of Extracellular Vesicles to the Plasma Membrane of Their Cell Targets. International Journal of Molecular Sciences, 2016, 17, 1296.	1.8	189
18	Pharmacology of the cell/matrix form of adhesion. Pharmacological Research, 2016, 107, 430-436.	3.1	17

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19	The Transcription Repressor REST in Adult Neurons: Physiology, Pathology, and Diseases. ENeuro, 2015, 2, ENEURO.0010-15.2015.	0.9	62
20	REST-Governed Gene Expression Profiling in a Neuronal Cell Model Reveals Novel Direct and Indirect Processes of Repression and Up-Regulation. Frontiers in Cellular Neuroscience, 2015, 9, 438.	1.8	9
21	Epigenomics of Neural Cells: REST-Induced Down- and Upregulation of Gene Expression in a Two-Clone PC12 Cell Model. BioMed Research International, 2015, 2015, 1-13.	0.9	3
22	Ectosomes and exosomes: shedding the confusion between extracellular vesicles. Trends in Cell Biology, 2015, 25, 364-372.	3.6	1,080
23	L1-CAM and N-CAM: From Adhesion Proteins to Pharmacological Targets. Trends in Pharmacological Sciences, 2015, 36, 769-781.	4.0	46
24	Neurite outgrowth induced by NGF or L1CAM via activation of the TrkA receptor is sustained also by the exocytosis of enlargeosomes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16943-16948.	3.3	34
25	Expression and function of the denseâ€core vesicle membranes are governed by the transcription repressor REST. FEBS Letters, 2013, 587, 1915-1922.	1.3	5
26	REST: an oncogene or a tumor suppressor?. Trends in Cell Biology, 2013, 23, 289-295.	3.6	72
27	<scp>L1CAM</scp> and its cellâ€surface mutants: new mechanisms and effects relevant to the physiology and pathology of neural cells. Journal of Neurochemistry, 2013, 124, 397-409.	2.1	9
28	NGF signaling in PC12 cells: the cooperation of p75NTR with TrkA is needed for the activation of both mTORC2 and the PI3K signalling cascade. Biology Open, 2013, 2, 855-866.	0.6	20
29	REST/NRSF-mediated intrinsic homeostasis protects neuronal networks from hyperexcitability. EMBO Journal, 2013, 32, 2994-3007.	3.5	89
30	Cell surface dynamics â€“ how Rho GTPases orchestrate the interplay between the plasma membrane and the cortical cytoskeleton. Journal of Cell Science, 2012, 125, 4435-44.	1.2	93
31	Dual RESTâ€dependence of L1CAM: from gene expression to alternative splicing governed by Nova2 in neural cells. Journal of Neurochemistry, 2012, 120, 699-709.	2.1	15
32	Astrocyte stellation, a process dependent on Rac1 is sustained by the regulated exocytosis of enlargeosomes. Glia, 2012, 60, 465-475.	2.5	72
33	Ectosomes. Current Biology, 2011, 21, R940-R941.	1.8	52
34	Neurite outgrowth: This process, first discovered by Santiago Ramon y Cajal, is sustained by the exocytosis of two distinct types of vesicles. Brain Research Reviews, 2011, 66, 246-255.	9.1	26
35	A signaling loop of REST, TSC2 and Î²-catenin governs proliferation and function of PC12 neural cells. Journal of Cell Science, 2011, 124, 3174-3186.	1.2	25
36	REST/NRSF governs the expression of dense-core vesicle gliosecretion in astrocytes. Journal of Cell Biology, 2011, 193, 537-549.	2.3	58

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37	In PC12 Cells, Expression of Neurosecretion and Neurite Outgrowth are Governed by the Transcription Repressor REST/NRSF. Cellular and Molecular Neurobiology, 2010, 30, 1295-1302.	1.7	9
38	Differential repression by the transcription factor REST/NRSF of the various Ca2+ signalling mechanisms in pheochromocytoma PC12 cells. Cell Calcium, 2010, 47, 360-368.	1.1	16
39	A New Form of Neurite Outgrowth Sustained by the Exocytosis of Enlargeosomes Expressed under the Control of REST. Traffic, 2010, 11, 1304-1314.	1.3	50
40	Rapid neurite outgrowth in neurosecretory cells and neurons is sustained by the exocytosis of a cytoplasmic organelle, the enlargeosome. Journal of Cell Science, 2010, 123, 165-170.	1.2	66
41	Outgrowth of neurites is a dual process. Communicative and Integrative Biology, 2010, 3, 576-578.	0.6	5
42	The Rest Repression of the Neurosecretory Phenotype Is Negatively Modulated by BHC80, a Protein of the BRAF/HDAC Complex. Journal of Neuroscience, 2009, 29, 6296-6307.	1.7	24
43	Shedding microvesicles: artefacts no more. Trends in Cell Biology, 2009, 19, 43-51.	3.6	1,559
44	Expression of Denseâ€core Vesicles and of Their Exocytosis Are Governed by the Repressive Transcription Factor NRSF/REST. Annals of the New York Academy of Sciences, 2009, 1152, 194-200.	1.8	22
45	The surfaceâ€exposed chaperone, Hsp60, is an agonist of the microglial TREM2 receptor. Journal of Neurochemistry, 2009, 110, 284-294.	2.1	117
46	Beta cell chromogranin B is partially segregated in distinct granules and can be released separately from insulin in response to stimulation. Diabetologia, 2008, 51, 997-1007.	2.9	15
47	Expression of the neurosecretory process in pc12 cells is governed by rest. Journal of Neurochemistry, 2008, 105, 1369-1383.	2.1	40
48	The regulated exocytosis of enlargeosomes is mediated by a SNARE machinery that includes VAMP4. Journal of Cell Science, 2008, 121, 2983-2991.	1.2	54
49	Inhibition of adipogenesis: a new job for the ER Ca2+ pool. Journal of Cell Biology, 2008, 182, 11-13.	2.3	12
50	The Ca²⁺â€dependent exocytosis of enlargeosomes is greatly reinforced by genistein via a nonâ€tyrosine kinaseâ€dependent mechanism. FEBS Letters, 2007, 581, 4932-4936.	1.3	6
51	Enlargeosome Traffic: Exocytosis Triggered by Various Signals Is Followed by Endocytosis, Membrane Shedding or Both. Traffic, 2007, 8, 742-757.	1.3	101
52	Annexin2 coating the surface of enlargeosomes is needed for their regulated exocytosis. EMBO Journal, 2006, 25, 5443-5456.	3.5	77
53	Non-secretory exocytoses in the brain. Journal of Physiology (Paris), 2006, 99, 140-145.	2.1	3
54	Macropinocytosis: regulated coordination of endocytic and exocytic membrane traffic events. Journal of Cell Science, 2006, 119, 4758-4769.	1.2	222

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55	Astrocytes, from brain glue to communication elements: the revolution continues. Nature Reviews Neuroscience, 2005, 6, 626-640.	4.9	1,513
56	Regulated exocytosis: new organelles for non-secretory purposes. Nature Reviews Molecular Cell Biology, 2005, 6, 181-187.	16.1	118
57	Key Role of the Postsynaptic Density Scaffold Proteins Shank and Homer in the Functional Architecture of Ca2+ Homeostasis at Dendritic Spines in Hippocampal Neurons. Journal of Neuroscience, 2005, 25, 4587-4592.	1.7	150
58	Enlargeosome, an Exocytic Vesicle Resistant to Nonionic Detergents, Undergoes Endocytosis via a Nonacidic Route. Molecular Biology of the Cell, 2004, 15, 5356-5368.	0.9	47
59	Dense-core granules: a specific hallmark of the neuronal/neurosecretory cell phenotype. Journal of Cell Science, 2004, 117, 743-749.	1.2	60
60	Distribution and signaling of TREM2/DAP12, the receptor system mutated in human polycystic lipomembraneous osteodysplasia with sclerosing leukoencephalopathy dementia. European Journal of Neuroscience, 2004, 20, 2617-2628.	1.2	140
61	Requirements for the identification of dense-core granules. Trends in Cell Biology, 2004, 14, 13-19.	3.6	41
62	The development of Ca2+ indicators: a breakthrough in pharmacological research. Trends in Pharmacological Sciences, 2004, 25, 172-174.	4.0	10
63	Surface wound healing: a new, general function of eukaryotic cells. Journal of Cellular and Molecular Medicine, 2003, 7, 197-203.	1.6	17
64	Neurosecretion Competence. Journal of Biological Chemistry, 2002, 277, 36715-36724.	1.6	37
65	Rapidly Exchanging Ca²⁺ Stores: Ubiquitous Partners of Surface Channels in Neurons. Physiology, 2002, 17, 144-149.	1.6	6
66	Regulated exocytosis: a novel, widely expressed system. Nature Cell Biology, 2002, 4, 955-963.	4.6	194
67	Ultra Rapid Calcium Events in Electrically Stimulated Frog Nerve Terminals. Biochemical and Biophysical Research Communications, 2001, 285, 724-727.	1.0	11
68	Rapidly exchanging Ca2+ stores in neurons: molecular, structural and functional properties. Progress in Neurobiology, 2001, 65, 309-338.	2.8	98
69	Total calcium ultrastructure: advances in excitable cells. Cell Calcium, 2001, 30, 1-8.	1.1	17
70	Head-to-tail oligomerization of calsequestrin. Journal of Cell Biology, 2001, 154, 525-534.	2.3	44
71	Neurosecretory cells without neurosecretion: evidence of an independently regulated trait of the cell phenotype. Journal of Physiology, 1999, 520, 43-52.	1.3	19
72	Requirement of Pyk2 for the activation of the MAP kinase cascade induced by Ca2+(but not by PKC or G) Tj ETQq0 0 0 rgBT /Overlock 1	1.3	12

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73	Multiple and diverse forms of regulated exocytosis in wild-type and defective PC12 cells. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 945-949.	3.3	58
74	Blockade of membrane transport and disassembly of the Golgi complex by expression of syntaxin 1A in neurosecretion-incompetent cells: prevention by rbSEC1. Journal of Cell Science, 1999, 112, 1865-1877.	1.2	82
75	Blockade of membrane transport and disassembly of the Golgi complex by expression of syntaxin 1A in neurosecretion-incompetent cells: prevention by rbSEC1. Journal of Cell Science, 1999, 112 (Pt 12), 1865-77.	1.2	37
76	Oscillation, activation, expression. Nature, 1998, 392, 863-865.	13.7	64
77	The endoplasmic reticulum Ca2+ store: a view from the lumen. Trends in Biochemical Sciences, 1998, 23, 10-14.	3.7	494
78	Neurosecretion Competence, an Independently Regulated Trait of the Neurosecretory Cell Phenotype. Journal of Biological Chemistry, 1998, 273, 34683-34686.	1.6	12
79	The Heterogeneity of ER Ca2+ Stores Has a Key Role in Nonmuscle Cell Signaling and Function. Journal of Cell Biology, 1998, 142, 1395-1398.	2.3	101
80	High-resolution calcium mapping of the endoplasmic reticulum-Golgi-exocytic membrane system. Electron energy loss imaging analysis of quick frozen-freeze dried PC12 cells.. Molecular Biology of the Cell, 1997, 8, 1501-1512.	0.9	122
81	Overexpression of calsequestrin in L6 myoblasts: formation of endoplasmic reticulum subdomains and their evolution into discrete vacuoles where aggregates of the protein are specifically accumulated.. Molecular Biology of the Cell, 1997, 8, 1789-1803.	0.9	28
82	BiP, a Major Chaperone Protein of the Endoplasmic Reticulum Lumen, Plays a Direct and Important Role in the Storage of the Rapidly Exchanging Pool of Ca2+. Journal of Biological Chemistry, 1997, 272, 30873-30879.	1.6	241
83	Nitric oxide effects on cell growth: GMP-dependent stimulation of the AP-1 transcription complex and cyclic GMP-independent slowing of cell cycling. British Journal of Pharmacology, 1997, 122, 687-697.	2.7	47
84	Overall Lack of Regulated Secretion in a PC12 Variant Cell Clone. Journal of Biological Chemistry, 1996, 271, 27116-27124.	1.6	41
85	High resolution ultrastructural mapping of total calcium: electron spectroscopic imaging/electron energy loss spectroscopy analysis of a physically/chemically processed nerve-muscle preparation.. Proceedings of the National Academy of Sciences of the United States of America, 1996, 93, 4799-4803.	3.3	55
86	The Endoplasmic Reticulum in PC12 Cells. Journal of Biological Chemistry, 1996, 271, 29304-29311.	1.6	44
87	Overexpression of calreticulin increases the Ca2+ capacity of rapidly exchanging Ca2+ stores and reveals aspects of their lumenal microenvironment and function.. Journal of Cell Biology, 1995, 130, 847-855.	2.3	181
88	Ca2+ waves in PC12 neurites: a bidirectional, receptor-oriented form of Ca2+ signaling.. Journal of Cell Biology, 1995, 129, 797-804.	2.3	30
89	Calcium homeostasis in mouse fibroblast cells: affected by Uâ€73122, a putative phospholipase C_{Î²} blocker, via multiple mechanisms. British Journal of Pharmacology, 1995, 115, 11-14.	2.7	24
90	Molecular and cellular physiology of intracellular calcium stores. Physiological Reviews, 1994, 74, 595-636.	13.1	1,050

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91	Intracellular Ca2+ stores of T lymphocytes: Changes induced byin vitro andin vivo activation. European Journal of Immunology, 1994, 24, 1365-1371.	1.6	33
92	Neurotransmitter release: fusion or â€˜kiss-and-runâ€™?. Trends in Cell Biology, 1994, 4, 1-4.	3.6	303
93	Cytosolic Ca2+Binding Proteins during Rat Brain Ageing: Loss of Calbindin and Calretinin in the Hippocampus, with no Change in the Cerebellum. European Journal of Neuroscience, 1994, 6, 1491-1499.	1.2	90
94	Tridimensional organization of Purkinje neuron cisternal stacks, a specialized endoplasmic reticulum subcompartment rich in inositol 1,4,5-trisphosphate receptors. Journal of Neurocytology, 1993, 22, 273-282.	1.6	34
95	Effects of the HIV-1 Envelope Glycoprotein gp120 in Cerebellar Cultures. [Ca2+]iIncreases in a Glial Cell Subpopulation. European Journal of Neuroscience, 1993, 5, 1711-1718.	1.2	31
96	The endoplasmic-sarcoplasmic reticulum of smooth muscle: immunocytochemistry of vas deferens fibers reveals specialized subcompartments differently equipped for the control of Ca2+ homeostasis.. Journal of Cell Biology, 1993, 121, 1041-1051.	2.3	99
97	Mechanism of [Ca2+]i oscillations in rat chromaffin cells. Complex Ca(2+)-dependent regulation of a ryanodine-insensitive oscillator. Journal of Biological Chemistry, 1993, 268, 15213-15220.	1.6	31
98	Mechanism of [Ca2+]i oscillations in rat chromaffin cells. Complex Ca(2+)-dependent regulation of a ryanodine-insensitive oscillator. Journal of Biological Chemistry, 1993, 268, 15213-20.	1.6	27
99	Endoplasmic reticulum: a dynamic patchwork of specialized subregions.. Molecular Biology of the Cell, 1992, 3, 1067-1072.	0.9	151
100	Receptor activation and CA2+ homeostasis studied by videoimaging. Pharmacological Research, 1992, 25, 93-94.	3.1	1
101	The endoplasmic reticulum of purkinje neuron body and dendrites: Molecular identity and specializations for Ca2+ transport. Neuroscience, 1992, 49, 467-477.	1.1	61
102	Differential Expression of Markers and Activities in a Group of PC12 Nerve Cell Clones. European Journal of Neuroscience, 1992, 4, 944-953.	1.2	40
103	Cellular sites of IP3 action. Advances in Second Messenger and Phosphoprotein Research, 1992, 26, 187-208.	4.5	7
104	[Ca2+]ioscillations from internal stores sustain exocytic secretion from the chromaffin cells of the rat. FEBS Letters, 1991, 283, 169-172.	1.3	32
105	Heterogeneity of microsomal Ca2+ stores in chicken Purkinje neurons.. EMBO Journal, 1991, 10, 3183-3189.	3.5	73
106	Regulation of Intracellular Calcium in Cerebellar Granule Neurons: Effects of Depolarization and of Glutamatergic and Cholinergic Stimulation. Journal of Neurochemistry, 1991, 56, 184-191.	2.1	78
107	Intracellular Ca2+ stores in chicken Purkinje neurons: differential distribution of the low affinity-high capacity Ca2+ binding protein, calsequestrin, of Ca2+ ATPase and of the ER lumenal protein, Bip.. Journal of Cell Biology, 1991, 113, 779-791.	2.3	161
108	Intracellular Ca2+ pools in PC12 cells. A unique, rapidly exchanging pool is sensitive to both inositol 1,4,5-trisphosphate and caffeine-ryanodine.. Journal of Biological Chemistry, 1991, 266, 20152-20158.	1.6	113

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109	Heterogeneity of microsomal Ca2+ stores in chicken Purkinje neurons. EMBO Journal, 1991, 10, 3183-9.	3.5	26
110	Intracellular Ca2+ pools in PC12 cells. A unique, rapidly exchanging pool is sensitive to both inositol 1,4,5-trisphosphate and caffeine-ryanodine. Journal of Biological Chemistry, 1991, 266, 20152-8.	1.6	96
111	Chapter 9 Functional morphology of the nerve terminal at the frog neuromuscular junction: recent insights using immunocytochemistry. Progress in Brain Research, 1990, 84, 83-92.	0.9	6
112	?-Latrotoxin Releases Both Vesicular and Cytoplasmic Glutamate from Isolated Nerve Terminals. Journal of Neurochemistry, 1990, 55, 2039-2047.	2.1	65
113	Multiple actions of SC 38249: the blocker of both voltage-operated and second messenger-operated Ca2+ channels also inhibits Ca2+ extrusion. European Journal of Pharmacology, 1990, 188, 417-421.	2.7	24
114	The inositol 1,4,5,-trisphosphate receptor in cerebellar Purkinje cells: quantitative immunogold labeling reveals concentration in an ER subcompartment.. Journal of Cell Biology, 1990, 111, 615-624.	2.3	370
115	Muscarinic and Quisqualate Receptor-Induced Phosphoinositide Hydrolysis in Primary Cultures of Striatal and Hippocampal Neurons. Evidence for Differential Mechanisms of Activation. Journal of Neurochemistry, 1989, 53, 825-833.	2.1	56
116	Inositol 1,4,5-trisphosphate receptor localized to endoplasmic reticulum in cerebellar Purkinje neurons. Nature, 1989, 339, 468-470.	13.7	447
117	Calcium channels in undifferentiated PC12 rat pheochromocytoma cells. FEBS Letters, 1989, 255, 398-400.	1.3	33
118	Pathogenesis of Acute Pancreatitis. Annual Review of Medicine, 1988, 39, 95-105.	5.0	89
119	Second-messenger control of catecholamine release from PC12 cells. Role of muscarinic receptors and nerve-growth-factor-induced cell differentiation. Biochemical Journal, 1988, 255, 761-768.	1.7	25
120	"Calciosome," a cytoplasmic organelle: the inositol 1,4,5-trisphosphate-sensitive Ca2+ store of nonmuscle cells?. Proceedings of the National Academy of Sciences of the United States of America, 1988, 85, 1091-1095.	3.3	424
121	Early rise of cytosolic Ca2+induced by NGF in PC12 and chromaffin cells. FEBS Letters, 1986, 208, 48-51.	1.3	88
122	Leptinotoxin-h Action in Synaptosomes, Neurosecretory Cells, and Artificial Membranes: Stimulation of Ion Fluxes. Journal of Neurochemistry, 1985, 45, 1708-1718.	2.1	12
123	Leptinotoxin-h Action in Synaptosomes and Neurosecretory Cells: Stimulation of Neurotransmitter Release. Journal of Neurochemistry, 1985, 45, 1719-1730.	2.1	11
124	Relationship between neurotransmitter release and cytosolic free calcium in PC12 cells. Biochemical Society Transactions, 1984, 12, 1077-1077.	1.6	0
125	The effects of?-latrotoxin of black widow spider venom on synaptosome ultrastructure. A morphometric analysis correlating its effects on transmitter release. Journal of Neurocytology, 1983, 12, 517-531.	1.6	21
126	Studies on ?-Latrotoxin Receptors in Rat Brain Synaptosomes: Correlation Between Toxin Binding and Stimulation of Transmitter Release. Journal of Neurochemistry, 1982, 38, 1559-1569.	2.1	83

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127	Immunological similarity of the NADH-cytochromecelectron transport system in microsomes, Golgi complex and mitochondrial outer membrane of rat liver cells. FEBS Letters, 1976, 63, 231-234.	1.3	26
128	IN VITRO STIMULATION OF ENZYME SECRETION AND THE SYNTHESIS OF MICROSOMAL MEMBRANES IN THE PANCREAS OF THE GUINEA PIG. Journal of Cell Biology, 1971, 51, 396-404.	2.3	27
129	Unconventional Protein Secretion Dependent on Two Extracellular Vesicles: Exosomes and Ectosomes. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	12