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	Shedding microvesicles: artefacts no more. Trends in Cell Biology, 2009, 19, 43-51.	3.6	1,559
2	Astrocytes, from brain glue to communication elements: the revolution continues. Nature Reviews Neuroscience, 2005, 6, 626-640.	4.9	1,513
3	Ectosomes and exosomes: shedding the confusion between extracellular vesicles. Trends in Cell Biology, 2015, 25, 364-372.	3.6	1,080
4	Molecular and cellular physiology of intracellular calcium stores. Physiological Reviews, 1994, 74, 595-636.	13.1	1,050
5	Exosomes and Ectosomes in Intercellular Communication. Current Biology, 2018, 28, R435-R444.	1.8	600
6	The endoplasmic reticulum Ca2+ store: a view from the lumen. Trends in Biochemical Sciences, 1998, 23, 10-14.	3.7	494
7	Inositol 1,4,5-trisphosphate receptor localized to endoplasmic reticulum in cerebellar Purkinje neurons. Nature, 1989, 339, 468-470.	13.7	447
8	"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
9	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
10	Neurotransmitter release: fusion or â€˜kiss-and-runâ€™?. Trends in Cell Biology, 1994, 4, 1-4.	3.6	303
11	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
12	Macropinocytosis: regulated coordination of endocytic and exocytic membrane traffic events. Journal of Cell Science, 2006, 119, 4758-4769.	1.2	222
13	Regulated exocytosis: a novel, widely expressed system. Nature Cell Biology, 2002, 4, 955-963.	4.6	194
14	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
15	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
16	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
17	Endoplasmic reticulum: a dynamic patchwork of specialized subregions.. Molecular Biology of the Cell, 1992, 3, 1067-1072.	0.9	151
18	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

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19	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
20	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
21	Regulated exocytosis: new organelles for non-secretory purposes. Nature Reviews Molecular Cell Biology, 2005, 6, 181-187.	16.1	118
22	The surfaceâ€exposed chaperone, Hsp60, is an agonist of the microglial TREM2 receptor. Journal of Neurochemistry, 2009, 110, 284-294.	2.1	117
23	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
24	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
25	Enlargeosome Traffic: Exocytosis Triggered by Various Signals Is Followed by Endocytosis, Membrane Shedding or Both. Traffic, 2007, 8, 742-757.	1.3	101
26	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
27	Rapidly exchanging Ca2+ stores in neurons: molecular, structural and functional properties. Progress in Neurobiology, 2001, 65, 309-338.	2.8	98
28	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
29	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
30	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
31	Pathogenesis of Acute Pancreatitis. Annual Review of Medicine, 1988, 39, 95-105.	5.0	89
32	REST/NRSF-mediated intrinsic homeostasis protects neuronal networks from hyperexcitability. EMBO Journal, 2013, 32, 2994-3007.	3.5	89
33	Early rise of cytosolic Ca2+induced by NGF in PC12 and chromaffin cells. FEBS Letters, 1986, 208, 48-51.	1.3	88
34	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
35	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
36	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

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37	Annexin2 coating the surface of enlargeosomes is needed for their regulated exocytosis. EMBO Journal, 2006, 25, 5443-5456.	3.5	77
38	Heterogeneity of microsomal Ca2+ stores in chicken Purkinje neurons.. EMBO Journal, 1991, 10, 3183-3189.	3.5	73
39	Astrocyte stellation, a process dependent on Rac1 is sustained by the regulated exocytosis of enlargeosomes. Glia, 2012, 60, 465-475.	2.5	72
40	REST: an oncogene or a tumor suppressor?. Trends in Cell Biology, 2013, 23, 289-295.	3.6	72
41	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
42	?-Latrotoxin Releases Both Vesicular and Cytoplasmic Glutamate from Isolated Nerve Terminals. Journal of Neurochemistry, 1990, 55, 2039-2047.	2.1	65
43	Oscillation, activation, expression. Nature, 1998, 392, 863-865.	13.7	64
44	The Transcription Repressor REST in Adult Neurons: Physiology, Pathology, and Diseases. ENeuro, 2015, 2, ENEURO.0010-15.2015.	0.9	62
45	The endoplasmic reticulum of purkinje neuron body and dendrites: Molecular identity and specializations for Ca2+ transport. Neuroscience, 1992, 49, 467-477.	1.1	61
46	Dense-core granules: a specific hallmark of the neuronal/neurosecretory cell phenotype. Journal of Cell Science, 2004, 117, 743-749.	1.2	60
47	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
48	REST/NRSF governs the expression of dense-core vesicle gliosecretion in astrocytes. Journal of Cell Biology, 2011, 193, 537-549.	2.3	58
49	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
50	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
51	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
52	Ectosomes. Current Biology, 2011, 21, R940-R941.	1.8	52
53	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
54	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

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55	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
56	L1-CAM and N-CAM: From Adhesion Proteins to Pharmacological Targets. Trends in Pharmacological Sciences, 2015, 36, 769-781.	4.0	46
57	Neurotrophin Trk Receptors: New Targets for Cancer Therapy. Reviews of Physiology, Biochemistry and Pharmacology, 2017, 174, 67-79.	0.9	45
58	The Endoplasmic Reticulum in PC12 Cells. Journal of Biological Chemistry, 1996, 271, 29304-29311.	1.6	44
59	Head-to-tail oligomerization of calsequestrin. Journal of Cell Biology, 2001, 154, 525-534.	2.3	44
60	Overall Lack of Regulated Secretion in a PC12 Variant Cell Clone. Journal of Biological Chemistry, 1996, 271, 27116-27124.	1.6	41
61	Requirements for the identification of dense-core granules. Trends in Cell Biology, 2004, 14, 13-19.	3.6	41
62	Neurotrophin receptors in the pathogenesis, diagnosis and therapy of neurodegenerative diseases. Pharmacological Research, 2017, 121, 129-137.	3.1	41
63	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
64	Expression of the neurosecretory process in pc12 cells is governed by rest. Journal of Neurochemistry, 2008, 105, 1369-1383.	2.1	40
65	Extracellular vesicles, news about their role in immune cells: physiology, pathology and diseases. Clinical and Experimental Immunology, 2019, 196, 318-327.	1.1	40
66	Extracellular Vesicles of Mesenchymal Stem Cells: Therapeutic Properties Discovered with Extraordinary Success. Biomedicines, 2021, 9, 667.	1.4	39
67	Neurosecretion Competence. Journal of Biological Chemistry, 2002, 277, 36715-36724.	1.6	37
68	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
69	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
70	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
71	Calcium channels in undifferentiated PC12 rat pheochromocytoma cells. FEBS Letters, 1989, 255, 398-400.	1.3	33
72	Intracellular Ca2+ stores of T lymphocytes: Changes induced byin vitro andin vivo activation. European Journal of Immunology, 1994, 24, 1365-1371.	1.6	33

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73	[Ca2+]ioscillations from internal stores sustain exocytic secretion from the chromaffin cells of the rat. FEBS Letters, 1991, 283, 169-172.	1.3	32
74	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
75	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
76	Ca2+ waves in PC12 neurites: a bidirectional, receptor-oriented form of Ca2+ signaling.. Journal of Cell Biology, 1995, 129, 797-804.	2.3	30
77	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
78	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
79	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
80	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
81	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
82	Heterogeneity of microsomal Ca2+ stores in chicken Purkinje neurons. EMBO Journal, 1991, 10, 3183-9.	3.5	26
83	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
84	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
85	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
86	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
87	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
88	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
89	Alternative Splicing by NOVA Factors: From Gene Expression to Cell Physiology and Pathology. International Journal of Molecular Sciences, 2020, 21, 3941.	1.8	22
90	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

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91	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
92	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
93	Astrocytes: News about Brain Health and Diseases. Biomedicines, 2020, 8, 394.	1.4	20
94	Neurosecretory cells without neurosecretion: evidence of an independently regulated trait of the cell phenotype. Journal of Physiology, 1999, 520, 43-52.	1.3	19
95	Total calcium ultrastructure: advances in excitable cells. Cell Calcium, 2001, 30, 1-8.	1.1	17
96	Surface wound healing: a new, general function of eukaryotic cells. Journal of Cellular and Molecular Medicine, 2003, 7, 197-203.	1.6	17
97	Pharmacology of the cell/matrix form of adhesion. Pharmacological Research, 2016, 107, 430-436.	3.1	17
98	Alzheimerâ€™s disease: Key developments support promising perspectives for therapy. Pharmacological Research, 2019, 146, 104316.	3.1	17
99	Extracellular vesicles (exosomes and ectosomes) play key roles in the pathology of brain diseases. Molecular Biomedicine, 2021, 2, 18.	1.7	17
100	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
101	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
102	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
103	Leptinotoxin-h Action in Synaptosomes, Neurosecretory Cells, and Artificial Membranes: Stimulation of Ion Fluxes. Journal of Neurochemistry, 1985, 45, 1708-1718.	2.1	12
104	Neurosecretion Competence, an Independently Regulated Trait of the Neurosecretory Cell Phenotype. Journal of Biological Chemistry, 1998, 273, 34683-34686.	1.6	12
105	Requirement of Pyk2 for the activation of the MAP kinase cascade induced by Ca2+(but not by PKC or G) Tj ETQq1 1 0.784314 rgBT /	1.3	12
106	Inhibition of adipogenesis: a new job for the ER Ca2+ pool. Journal of Cell Biology, 2008, 182, 11-13.	2.3	12
107	Ectosomes and Exosomes-Two Extracellular Vesicles That Differ Only in Some Details. Biochemistry & Molecular Biology Journal, 2016, 02, .	0.3	12
108	News about the Role of Fluid and Imaging Biomarkers in Neurodegenerative Diseases. Biomedicines, 2021, 9, 252.	1.4	12

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109	Unconventional Protein Secretion Dependent on Two Extracellular Vesicles: Exosomes and Ectosomes. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	12
110	Leptinotoxin-h Action in Synaptosomes and Neurosecretory Cells: Stimulation of Neurotransmitter Release. Journal of Neurochemistry, 1985, 45, 1719-1730.	2.1	11
111	Ultra Rapid Calcium Events in Electrically Stimulated Frog Nerve Terminals. Biochemical and Biophysical Research Communications, 2001, 285, 724-727.	1.0	11
112	The development of Ca2+ indicators: a breakthrough in pharmacological research. Trends in Pharmacological Sciences, 2004, 25, 172-174.	4.0	10
113	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
114	<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
115	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
116	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
117	News about non-secretory exocytosis: mechanisms, properties, and functions. Journal of Molecular Cell Biology, 2019, 11, 736-746.	1.5	7
118	Cellular sites of IP3 action. Advances in Second Messenger and Phosphoprotein Research, 1992, 26, 187-208.	4.5	7
119	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
120	Rapidly Exchanging Ca²⁺ Stores: Ubiquitous Partners of Surface Channels in Neurons. Physiology, 2002, 17, 144-149.	1.6	6
121	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
122	Outgrowth of neurites is a dual process. Communicative and Integrative Biology, 2010, 3, 576-578.	0.6	5
123	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
124	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
125	Non-secretory exocytoses in the brain. Journal of Physiology (Paris), 2006, 99, 140-145.	2.1	3
126	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

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127	Receptor activation and CA2+ homeostasis studied by videoimaging. Pharmacological Research, 1992, 25, 93-94.	3.1	1
128	Relationship between neurotransmitter release and cytosolic free calcium in PC12 cells. Biochemical Society Transactions, 1984, 12, 1077-1077.	1.6	0
129	Gene Expression in the Physiology and Pathology of Neurons. International Journal of Molecular Sciences, 2020, 21, 5716.	1.8	0