Rosario Donato

List of Publications by Year
in descending order

60 papers	8,412 citations	101543 36 h-index	133252 59 g-index
60 all docs	60 docs citations	60 times ranked	9344 citing authors

#	Article	IF	Citations
1	S100: a multigenic family of calcium-modulated proteins of the EF-hand type with intracellular and extracellular functional roles. International Journal of Biochemistry and Cell Biology, 2001, 33, 637-668.	2.8	1,401
2	Nrf2-Keap1 signaling in oxidative and reductive stress. Biochimica Et Biophysica Acta - Molecular Cell Research, 2018, 1865, 721-733.	4.1	1,050
3	Intracellular and extracellular roles of S100 proteins. Microscopy Research and Technique, 2003, 60, 540-551.	2.2	829
4	S100B's double life: Intracellular regulator and extracellular signal. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1008-1022.	4.1	595
5	Functional roles of S100 proteins, calcium-binding proteins of the EF-hand type. Biochimica Et Biophysica Acta - Molecular Cell Research, 1999, 1450, 191-231.	4.1	594
6	Coregulation of Neurite Outgrowth and Cell Survival by Amphoterin and S100 Proteins through Receptor for Advanced Glycation End Products (RAGE) Activation. Journal of Biological Chemistry, 2000, 275, 40096-40105.	3.4	516
7	RAGE: A Single Receptor for Several Ligands and Different Cellular Responses: The Case of Certain S100 Proteins. Current Molecular Medicine, 2007, 7, 711-724.	1.3	238
8	S100B/RAGE-dependent activation of microglia via NF-Î°B and AP-1. Neurobiology of Aging, 2010, 31, 665-677.	3.1	216
9	The Pathophysiological Role of Microglia in Dynamic Surveillance, Phagocytosis and Structural Remodeling of the Developing CNS. Frontiers in Molecular Neuroscience, 2017, 10, 191.	2.9	188
10	S100b expression in and effects on microglia. Glia, 2001, 33, 131-142.	4.9	176
11	Microglia and Aging: The Role of the TREM2â€“DAP12 and CX3CL1-CX3CR1 Axes. International Journal of Molecular Sciences, 2018, 19, 318.	4.1	154
12	S100B Protein, a Damage-Associated Molecular Pattern Protein in the Brain and Heart, and Beyond. Cardiovascular Psychiatry and Neurology, 2010, 2010, 1-13.	0.8	136
13	S100B Protein Regulates Astrocyte Shape and Migration via Interaction with Src Kinase. Journal of Biological Chemistry, 2009, 284, 8797-8811.	3.4	135
14	S100B binding to RAGE in microglia stimulates COX-2 expression. Journal of Leukocyte Biology, 2007, 81, 108-118.	3.3	130
15	Amphoterin Stimulates Myogenesis and Counteracts the Antimyogenic Factors Basic Fibroblast Growth Factor and S100B via RAGE Binding. Molecular and Cellular Biology, 2004, 24, 4880-4894.	2.3	115
16	The Amphoterin (HMGB1)/Receptor for Advanced Glycation End Products (RAGE) Pair Modulates Myoblast Proliferation, Apoptosis, Adhesiveness, Migration, and Invasiveness. Journal of Biological Chemistry, 2006, 281, 8242-8253.	3.4	105
17	S100A6 protein: functional roles. Cellular and Molecular Life Sciences, 2017, 74, 2749-2760.	5.4	104
18	S100B-stimulated NO production by BV-2 microglia is independent of RAGE transducing activity but dependent on RAGE extracellular domain. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1742, 169-177.	4.1	93

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19	S100B protein in tissue development, repair and regeneration. World Journal of Biological Chemistry, 2013, 4, 1.	4.3	84
20	Targeting mTOR in Glioblastoma: Rationale and Preclinical/Clinical Evidence. Disease Markers, 2018, 2018, 1-10.	1.3	81
21	Artesunate induces ROS- and p38 MAPK-mediated apoptosis and counteracts tumor growth<i>in vivo</i>in embryonal rhabdomyosarcoma cells. Carcinogenesis, 2015, 36, 1071-1083.	2.8	77
22	S100B Inhibits Myogenic Differentiation and Myotube Formation in a RAGE-Independent Manner. Molecular and Cellular Biology, 2003, 23, 4870-4881.	2.3	75
23	RAGE in the pathophysiology of skeletal muscle. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1213-1234.	7.3	75
24	S100B Increases Proliferation in PC12 Neuronal Cells and Reduces Their Responsiveness to Nerve Growth Factor via Akt Activation. Journal of Biological Chemistry, 2005, 280, 4402-4414.	3.4	72
25	S100 Calcium Binding Proteins and Ion Channels. Frontiers in Pharmacology, 2012, 3, 67.	3.5	64
26	Cellular and molecular mechanisms of sarcopenia: the S100B perspective. Journal of Cachexia, Sarcopenia and Muscle, 2018, 9, 1255-1268.	7.3	64
27	S100B causes apoptosis in a myoblast cell line in a RAGE-independent manner. Journal of Cellular Physiology, 2004, 199, 274-283.	4.1	63
28	S100b counteracts effects of the neurotoxicant trimethyltin on astrocytes and microglia. Journal of Neuroscience Research, 2005, 81, 677-686.	2.9	63
29	Targeting RAGE prevents muscle wasting and prolongs survival in cancer cachexia. Journal of Cachexia, Sarcopenia and Muscle, 2020, 11, 929-946.	7.3	60
30	Membrane-bound annexin V isoforms (CaBP33 and CaBP37) and annexin VI in bovine tissues behave like integral membrane proteins. FEBS Letters, 1992, 296, 158-162.	2.8	59
31	RAGE Expression in Rhabdomyosarcoma Cells Results in Myogenic Differentiation and Reduced Proliferation, Migration, Invasiveness, and Tumor Growth. American Journal of Pathology, 2007, 171, 947-961.	3.8	56
32	S100B protein in myoblasts modulates myogenic differentiation via NFâ€•Î°Bâ€•dependent inhibition of MyoD expression. Journal of Cellular Physiology, 2010, 223, 270-282.	4.1	52
33	S100B Secretion in Acute Brain Slices: Modulation by Extracellular Levels of Ca2+ and K+. Neurochemical Research, 2009, 34, 1603-1611.	3.3	51
34	Effects of calciumâ€•binding proteins (Sâ€•100a o , Sâ€•100a, Sâ€•100b) on desmin assembly in vitro. FASEB Journal, 1996, 10, 317-324.	0.5	46
35	Microglia-glioma cross-talk a two way approach to new strategies against glioma. Frontiers in Bioscience - Landmark, 2017, 22, 268-309.	3.0	45
36	Immunocytochemical localization of annexin V (CaBP33), a Ca2+-dependent phospholipid-and membrane-binding protein, in the rat nervous system and skeletal muscles and in the porcine heart. Journal of Cellular Physiology, 1992, 152, 587-598.	4.1	40

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37	Oxidative stress-induced S100B accumulation converts myoblasts into brown adipocytes via an NF-Î°B/YY1/miR-133 axis and NF-Î°B/YY1/BMP-7 axis. Cell Death and Differentiation, 2017, 24, 2077-2088.	11.2	38
38	Levels of S100B protein drive the reparative process in acute muscle injury and muscular dystrophy. Scientific Reports, 2017, 7, 12537.	3.3	37
39	Characterization of mammalian heart annexins with special reference to CaBP33 (annexin V). FEBS Letters, 1990, 277, 53-58.	2.8	36
40	S100B stimulates myoblast proliferation and inhibits myoblast differentiation by independently stimulating ERK1/2 and inhibiting p38 MAPK. Journal of Cellular Physiology, 2006, 207, 461-470.	4.1	36
41	PP242 Counteracts Glioblastoma Cell Proliferation, Migration, Invasiveness and Stemness Properties by Inhibiting mTORC2/AKT. Frontiers in Cellular Neuroscience, 2018, 12, 99.	3.7	34
42	S100 proteins in obesity: liaisons dangereuses. Cellular and Molecular Life Sciences, 2020, 77, 129-147.	5.4	31
43	Reductive stress in striated muscle cells. Cellular and Molecular Life Sciences, 2020, 77, 3547-3565.	5.4	31
44	S100B Protein in the Nervous System and Cardiovascular Apparatus in Normal and Pathological Conditions. Cardiovascular Psychiatry and Neurology, 2010, 2010, 1-2.	0.8	30
45	Targeting RAGE as a potential therapeutic approach to Duchenne muscular dystrophy. Human Molecular Genetics, 2018, 27, 3734-3746.	2.9	26
46	Intraperitoneal injection of microencapsulated Sertoli cells restores muscle morphology and performance in dystrophic mice. Biomaterials, 2016, 75, 313-326.	11.4	25
47	Immunocytochemical analyses of annexin V (CaBP33) in a human-derived glioma cell line. FEBS Letters, 1993, 323, 45-50.	2.8	20
48	Defective RAGE activity in embryonal rhabdomyosarcoma cells results in high PAX7 levels that sustain migration and invasiveness. Carcinogenesis, 2014, 35, 2382-2392.	2.8	19
49	Two novel brain proteins, CaBP33 and CaBP37, are calcium-dependent phospholipid- and membrane-binding proteins. FEBS Letters, 1990, 262, 72-76.	2.8	18
50	Probing Internalization Effects and Biocompatibility of Ultrasmall Zirconium Metal-Organic Frameworks UiO-66 NP in U251 Glioblastoma Cancer Cells. Nanomaterials, 2018, 8, 867.	4.1	18
51	â€˜Neuron-specificâ€™ protein gene product 9.5 (PGP 9.5) is also expressed in glioma cell lines and its expression depends on cellular growth state. FEBS Letters, 1991, 290, 131-134.	2.8	17
52	Phosphocaveolin-1 Enforces Tumor Growth and Chemoresistance in Rhabdomyosarcoma. PLoS ONE, 2014, 9, e84618.	2.5	17
53	Interaction of two brain annexins, CaBP33 and CaBP37, with membrane-skeleton proteins. FEBS Letters, 1990, 267, 171-175.	2.8	16
54	Interaction Between S-100 Proteins and Steady-State and Taxol-Stabilized Microtubules In Vitro. Journal of Neurochemistry, 1989, 52, 1010-1017.	3.9	14

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55	Parenchymal and nonâ€parenchymal immune cells in the brain: A critical role in regulating CNS functions. International Journal of Developmental Neuroscience, 2019, 77, 26-38.	1.6	14
56	Do porcine Sertoli cells represent an opportunity for Duchenne muscular dystrophy?. Cell Proliferation, 2019, 52, e12599.	5.3	11
57	Ultracytochemical localization of adenylate cyclase and guanylate cyclase in crushed peripheral nerves. Glia, 1988, 1, 260-274.	4.9	10
58	Effects of intraperitoneal injection of microencapsulated Sertoli cells on chronic and presymptomatic dystrophic mice. Data in Brief, 2015, 5, 1015-1021.	1.0	8
59	Employment of Microencapsulated Sertoli Cells as a New Tool to Treat Duchenne Muscular Dystrophy. Journal of Functional Morphology and Kinesiology, 2017, 2, 47.	2.4	3
60	S100b expression in and effects on microglia. , 2001, 33, 131.		1