Santos A. Susin

List of Publications by Year
in descending order

127 papers	30,828 citations	10986 71 h-index	15266 126 g-index
128 all docs	128 docs citations	128 times ranked	21149 citing authors

#	Article	IF	Citations
1	Molecular characterization of mitochondrial apoptosis-inducing factor. Nature, 1999, 397, 441-446.	27.8	3,697
2	Sequential reduction of mitochondrial transmembrane potential and generation of reactive oxygen species in early programmed cell death.. Journal of Experimental Medicine, 1995, 182, 367-377.	8.5	1,509
3	Mitochondrial control of apoptosis. Trends in Immunology, 1997, 18, 44-51.	7.5	1,401
4	Mitochondrial control of nuclear apoptosis.. Journal of Experimental Medicine, 1996, 183, 1533-1544.	8.5	1,318
5	Essential role of the mitochondrial apoptosis-inducing factor in programmed cell death. Nature, 2001, 410, 549-554.	27.8	1,212
6	Bcl-2 inhibits the mitochondrial release of an apoptogenic protease.. Journal of Experimental Medicine, 1996, 184, 1331-1341.	8.5	1,109
7	Bax and Adenine Nucleotide Translocator Cooperate in the Mitochondrial Control of Apoptosis. , 1998, 281, 2027-2031.		1,061
8	Hsp27 negatively regulates cell death by interacting with cytochrome c. Nature Cell Biology, 2000, 2, 645-652.	10.3	882
9	Mitochondrial permeability transition is a central coordinating event of apoptosis.. Journal of Experimental Medicine, 1996, 184, 1155-1160.	8.5	821
10	Heat-shock protein 70 antagonizes apoptosis-inducing factor. Nature Cell Biology, 2001, 3, 839-843.	10.3	790
11	Mitochondrioâ€nuclear translocation of AIF in apoptosis and necrosis. FASEB Journal, 2000, 14, 729-739.	0.5	723
12	Mitochondria as regulators of apoptosis: doubt no more. Biochimica Et Biophysica Acta - Bioenergetics, 1998, 1366, 151-165.	1.0	697
13	Mitochondrial Release of Caspase-2 and -9 during the Apoptotic Process. Journal of Experimental Medicine, 1999, 189, 381-394.	8.5	678
14	Two Distinct Pathways Leading to Nuclear Apoptosis. Journal of Experimental Medicine, 2000, 192, 571-580.	8.5	665
15	The Permeability Transition Pore Complex: A Target for Apoptosis Regulation by Caspases and Bcl-2â€"related Proteins. Journal of Experimental Medicine, 1998, 187, 1261-1271.	8.5	657
16	The Central Executioner of Apoptosis: Multiple Connections between Protease Activation and Mitochondria in Fas/APO-1/CD95- and Ceramide-induced Apoptosis. Journal of Experimental Medicine, 1997, 186, 25-37.	8.5	615
17	Mitochondria and programmed cell death: back to the future. FEBS Letters, 1996, 396, 7-13.	2.8	459
18	Apoptosis inducing factor (AIF): a phylogenetically old, caspase-independent effector of cell death. Cell Death and Differentiation, 1999, 6, 516-524.	11.2	452

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19	The apoptosis-necrosis paradox. Apoptogenic proteases activated after mitochondrial permeability transition determine the mode of cell death. Oncogene, 1997, 15, 1573-1581.	5.9	443
20	The HIV-1 Viral Protein R Induces Apoptosis via a Direct Effect on the Mitochondrial Permeability Transition Pore. Journal of Experimental Medicine, 2000, 191, 33-46.	8.5	428
21	Inhibitors of permeability transition interfere with the disruption of the mitochondrial transmembrane potential during apoptosis. FEBS Letters, 1996, 384, 53-57.	2.8	400
22	Apoptosisâ€inducing factor (AIF): a ubiquitous mitochondrial oxidoreductase involved in apoptosis. FEBS Letters, 2000, 476, 118-123.	2.8	390
23	Subcellular and submitochondrial mode of action of Bcl-2-like oncoproteins. Oncogene, 1998, 16, 2265-2282.	5.9	385
24	NADH Oxidase Activity of Mitochondrial Apoptosis-inducing Factor. Journal of Biological Chemistry, 2001, 276, 16391-16398.	3.4	344
25	Activation of Mitochondria and Release of Mitochondrial Apoptogenic Factors by Betulinic Acid. Journal of Biological Chemistry, 1998, 273, 33942-33948.	3.4	323
26	Sequential Activation of Poly(ADP-Ribose) Polymerase 1, Calpains, and Bax Is Essential in Apoptosis-Inducing Factor-Mediated Programmed Necrosis. Molecular and Cellular Biology, 2007, 27, 4844-4862.	2.3	298
27	Arsenite Induces Apoptosis via a Direct Effect on the Mitochondrial Permeability Transition Pore. Experimental Cell Research, 1999, 249, 413-421.	2.6	283
28	Oxidation of a critical thiol residue of the adenine nucleotide translocator enforces Bcl-2-independent permeability transition pore opening and apoptosis. Oncogene, 2000, 19, 307-314.	5.9	276
29	Programmed cell death via mitochondria: Different modes of dying. Biochemistry (Moscow), 2005, 70, 231-239.	1.5	274
30	Disruption of the outer mitochondrial membrane as a result of large amplitude swelling: the impact of irreversible permeability transition. FEBS Letters, 1998, 426, 111-116.	2.8	266
31	PK11195, a Ligand of the Mitochondrial Benzodiazepine Receptor, Facilitates the Induction of Apoptosis and Reverses Bcl-2-Mediated Cytoprotection. Experimental Cell Research, 1998, 241, 426-434.	2.6	249
32	Dominant cell death induction by extramitochondrially targeted apoptosisâ€inducing factor. FASEB Journal, 2001, 15, 758-767.	0.5	226
33	Sequential acquisition of mitochondrial and plasma membrane alterations during early lymphocyte apoptosis. Journal of Immunology, 1996, 157, 512-21.	0.8	224
34	Nitric oxide induces apoptosis via triggering mitochondrial permeability transition. FEBS Letters, 1997, 410, 373-377.	2.8	220
35	Cell type specific involvement of death receptor and mitochondrial pathways in drug-induced apoptosis. Oncogene, 2001, 20, 1063-1075.	5.9	220
36	Apoptosis Control in Syncytia Induced by the HIV Type 1â€"Envelope Glycoprotein Complex. Journal of Experimental Medicine, 2000, 192, 1081-1092.	8.5	217

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37	Redox regulation of apoptosis: Impact of thiol oxidation status on mitochondrial function. European Journal of Immunology, 1997, 27, 289-296.	2.9	210
38	Glutathione depletion is an early and calcium elevation is a late event of thymocyte apoptosis. Journal of Immunology, 1997, 158, 4612-9.	0.8	205
39	AIF promotes chromatinolysis and caspase-independent programmed necrosis by interacting with histone H2AX. EMBO Journal, 2010, 29, 1585-1599.	7.8	197
40	Cytofluorometric detection of mitochondrial alterations in early CD95/Fas/APO-1-triggered apoptosis of Jurkat T lymphoma cells. Comparison of seven mitochondrion-specific fluorochromes. Immunology Letters, 1998, 61, 157-163.	2.5	195
41	Lonidamine triggers apoptosis via a direct, Bcl-2-inhibited effect on the mitochondrial permeability transition pore. Oncogene, 1999, 18, 2537-2546.	5.9	194
42	Bcl-2 down-regulation causes autophagy in a caspase-independent manner in human leukemic HL60 cells. Cell Death and Differentiation, 2000, 7, 1263-1269.	11.2	179
43	GD3 ganglioside directly targets mitochondria in a bclâ€2â€controlled fashion. FASEB Journal, 2000, 14, 2047-2054.	0.5	175
44	Mass spectrometric identification of proteins released from mitochondria undergoing permeability transition. Cell Death and Differentiation, 2000, 7, 137-144.	11.2	168
45	Apoptosis-associated derangement of mitochondrial function in cells lacking mitochondrial DNA. Cancer Research, 1996, 56, 2033-8.	0.9	166
46	The crystal structure of the mouse apoptosis-inducing factor AIF. Nature Structural Biology, 2002, 9, 442-446.	9.7	163
47	Mitochondrial permeability transition triggers lymphocyte apoptosis. Journal of Immunology, 1996, 157, 4830-6.	0.8	163
48	Chloromethyl-X-rosamine is an aldehyde-fixable potential-sensitive fluorochrome for the detection of early apoptosis. Cytometry, 1996, 25, 333-340.	1.8	161
49	Relocalization of Apoptosis-Inducing Factor in Photoreceptor Apoptosis Induced by Retinal Detachment in Vivo. American Journal of Pathology, 2001, 158, 1271-1278.	3.8	160
50	Mitochondrial effectors in caspase-independent cell death. FEBS Letters, 2004, 557, 14-20.	2.8	157
51	AIF-Mediated Programmed Necrosis: A Highly Orchestrated Way to Die. Cell Cycle, 2007, 6, 2612-2619.	2.6	153
52	The thiol crosslinking agent diamide overcomes the apoptosis-inhibitory effect of Bcl-2 by enforcing mitochondrial permeability transition. Oncogene, 1998, 16, 1055-1063.	5.9	149
53	AIFâ€mediated caspaseâ€independent necroptosis: A new chance for targeted therapeutics. IUBMB Life, 2011, 63, 221-232.	3.4	148
54	Critical role of photoreceptor apoptosis in functional damage after retinal detachment. Current Eye Research, 2002, 24, 161-172.	1.5	137

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55	Apoptosisâ€Inducing Factor Mediates Microglial and Neuronal Apoptosis Caused by Pneumococcus. Journal of Infectious Diseases, 2001, 184, 1300-1309.	4.0	128
56	Mitochondrial Membrane Permeabilization during the Apoptotic Process. Annals of the New York Academy of Sciences, 1999, 887, 18-30.	3.8	127
57	Caspases disrupt mitochondrial membrane barrier function. FEBS Letters, 1998, 427, 198-202.	2.8	123
58	The pH Requirement for in Vivo Activity of the Iron-Deficiency-Induced "Turbo" Ferric Chelate Reductase (A Comparison of the Iron-Deficiency-Induced Iron Reductase Activities of Intact Plants and) Tj ETQq0 0 0 rgBT /Overlock 10 T	4.8	121
59	Mitochondrial permeability transition in apoptosis and necrosis. Cell Biology and Toxicology, 1998, 14, 141-145.	5.3	121
60	Cysteine protease inhibition prevents mitochondrial apoptosis-inducing factor (AIF) release. Cell Death and Differentiation, 2005, 12, 1445-1448.	11.2	119
61	Therapeutic potential of AIF-mediated caspase-independent programmed cell death. Drug Resistance Updates, 2007, 10, 235-255.	14.4	118
62	HIV induces lymphocyte apoptosis by a p53â€initiated, mitochondrialâ€mediated mechanism. FASEB Journal, 2001, 15, 5-6.	0.5	114
63	BID regulates AIF-mediated caspase-independent necroptosis by promoting BAX activation. Cell Death and Differentiation, 2012, 19, 245-256.	11.2	110
64	A Role of the Mitochondrial Apoptosis-Inducing Factor in Granulysin-Induced Apoptosis. Journal of Immunology, 2001, 167, 1222-1229.	0.8	103
65	Drp1 Mediates Caspase-Independent Type III Cell Death in Normal and Leukemic Cells. Molecular and Cellular Biology, 2007, 27, 7073-7088.	2.3	98
66	The novel retinoid 6-[3-(1-adamantyl)-4-hydroxyphenyl]-2-naphtalene carboxylic acid can trigger apoptosis through a mitochondrial pathway independent of the nucleus. Cancer Research, 1999, 59, 6257-66.	0.9	98
67	Clearance of Apoptotic Photoreceptors. American Journal of Pathology, 2003, 162, 1869-1879.	3.8	94
68	Histone H2AX: The missing link in AIF-mediated caspase-independent programmed necrosis. Cell Cycle, 2010, 9, 3186-3193.	2.6	86
69	Caspase-independent commitment phase to apoptosis in activated blood T lymphocytes: reversibility at low apoptotic insult. Blood, 2000, 96, 1030-1038.	1.4	84
70	AIF-mediated caspase-independent necroptosis requires ATM and DNA-PK-induced histone H2AX Ser139 phosphorylation. Cell Death and Disease, 2012, 3, e390-e390.	6.3	82
71	The Contribution of Apoptosis-inducing Factor, Caspase-activated DNase, and Inhibitor of Caspase-activated DNase to the Nuclear Phenotype and DNA Degradation during Apoptosis. Journal of Biological Chemistry, 2005, 280, 35670-35683.	3.4	80
72	A Cytofluorometric Assay of Nuclear Apoptosis Induced in a Cell-Free System: Application to Ceramide-Induced Apoptosis. Experimental Cell Research, 1997, 236, 397-403.	2.6	73

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73	CD47 in the Immune Response: Role of Thrombospondin and SIRP-α Reverse Signaling. Current Drug Targets, 2008, 9, 842-850.	2.1	73
74	p16Ink4A, not only a G₁inhibitor?. Cell Cycle, 2010, 9, 3166-3170.	2.6	72
75	Palmitate induces apoptosis via a direct effect on mitochondria. Apoptosis: an International Journal on Programmed Cell Death, 1999, 4, 81-87.	4.9	71
76	AIFsh, a Novel Apoptosis-inducing Factor (AIF) Pro-apoptotic Isoform with Potential Pathological Relevance in Human Cancer. Journal of Biological Chemistry, 2006, 281, 6413-6427.	3.4	71
77	Pre-processed caspase-9 contained in mitochondria participates in apoptosis. Cell Death and Differentiation, 2002, 9, 82-88.	11.2	65
78	CD47 Agonist Peptides Induce Programmed Cell Death in Refractory Chronic Lymphocytic Leukemia B Cells via PLCÎ³1 Activation: Evidence from Mice and Humans. PLoS Medicine, 2015, 12, e1001796.	8.4	65
79	Flavin excretion from roots of iron-deficient sugar beet (Beta vulgaris L.). Planta, 1994, 193, 514-519.	3.2	62
80	Regulation of apoptosis/necrosis execution in cadmium-treated human promonocytic cells under different forms of oxidative stress. Apoptosis: an International Journal on Programmed Cell Death, 2006, 11, 673-686.	4.9	54
81	Structural Insights into the Coenzyme Mediated Monomerâ€"Dimer Transition of the Pro-Apoptotic Apoptosis Inducing Factor. Biochemistry, 2014, 53, 4204-4215.	2.5	52
82	<scp>CD</scp>47 agonist peptide <scp>PKHB</scp>1 induces immunogenic cell death in Tâ€cell acute lymphoblastic leukemia cells. Cancer Science, 2019, 110, 256-268.	3.9	52
83	A Dual Role of IFN-Î± in the Balance between Proliferation and Death of Human CD4+ T Lymphocytes during Primary Response. Journal of Immunology, 2004, 173, 3740-3747.	0.8	51
84	Identification and Characterization of AIFsh2, a Mitochondrial Apoptosis-inducing Factor (AIF) Isoform with NADH Oxidase Activity. Journal of Biological Chemistry, 2006, 281, 18507-18518.	3.4	51
85	AIF loss deregulates hematopoiesis and reveals different adaptive metabolic responses in bone marrow cells and thymocytes. Cell Death and Differentiation, 2018, 25, 983-1001.	11.2	49
86	Purification of Mitochondria for Apoptosis Assays. Methods in Enzymology, 2000, 322, 205-208.	1.0	48
87	Mitochondrial dysfunction in CD47-mediated caspase-independent cell death: ROS production in the absence of cytochrome c and AIF release. Biochimie, 2003, 85, 741-746.	2.6	48
88	Use of Penetrating Peptides Interacting with PP1/PP2A Proteins As a General Approach for a Drug Phosphatase Technology. Molecular Pharmacology, 2006, 69, 1115-1124.	2.3	46
89	CD44 ligation induces caspase-independent cell death via a novel calpain/AIF pathway in human erythroleukemia cells. Oncogene, 2006, 25, 5741-5751.	5.9	45
90	Annonaceous Acetogenins: The Hydroxyl Groups and THF Rings Are Crucial Structural Elements for Targeting the Mitochondria, Demonstration with the Synthesis of Fluorescent Squamocin Analogues. ChemBioChem, 2005, 6, 979-982.	2.6	42

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91	Revisiting Neutrophil Gelatinase-Associated Lipocalin (NGAL) in Cancer: Saint or Sinner?. Cancers, 2018, 10, 336.	3.7	40
92	Expression of dengue ApoptoM sequence results in disruption of mitochondrial potential and caspase activation. Biochimie, 2003, 85, 789-793.	2.6	38
93	Gain in the short arm of chromosome 2 (2p+) induces gene overexpression and drug resistance in chronic lymphocytic leukemia: analysis of the central role of XPO1. Leukemia, 2017, 31, 1625-1629.	7.2	38
94	Expression of cortical and hippocampal apoptosis-inducing factor (AIF) in aging and Alzheimer's disease. Neurobiology of Aging, 2007, 28, 351-356.	3.1	35
95	High level of Bcl-2 counteracts apoptosis mediated by a live rabies virus vaccine strain and induces long-term infection. Virology, 2003, 314, 549-561.	2.4	34
96	Thrombospondin-1 Mimetic Agonist Peptides Induce Selective Death in Tumor Cells: Design, Synthesis, and Structureâ€"Activity Relationship Studies. Journal of Medicinal Chemistry, 2016, 59, 8412-8421.	6.4	29
97	Caspase-independent type III programmed cell death in chronic lymphocytic leukemia: the key role of the F-actin cytoskeleton. Haematologica, 2009, 94, 507-517.	3.5	26
98	Different contribution of BH3-only proteins and caspases to doxorubicin-induced apoptosis in p53-deficient leukemia cells. Biochemical Pharmacology, 2010, 79, 1746-1758.	4.4	26
99	CD47Low Status on CD4 Effectors Is Necessary for the Contraction/Resolution of the Immune Response in Humans and Mice. PLoS ONE, 2012, 7, e41972.	2.5	26
100	Mitochondrial AIF loss causes metabolic reprogramming, caspase-independent cell death blockade, embryonic lethality, and perinatal hydrocephalus. Molecular Metabolism, 2020, 40, 101027.	6.5	26
101	Apoptosis Inversely Correlates with Rabies Virus Neurotropism. Annals of the New York Academy of Sciences, 2003, 1010, 598-603.	3.8	25
102	Key Residues Regulating the Reductase Activity of the Human Mitochondrial Apoptosis Inducing Factor. Biochemistry, 2015, 54, 5175-5184.	2.5	25
103	Highly cytotoxic and neurotoxic acetogenins of the Annonaceae: New putative biological targets of squamocin detected by activity-based protein profiling. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 5741-5744.	2.2	22
104	Concomitant elevations of MMPâ€9, NGAL, proMMPâ€9/NGAL and neutrophil elastase in serum of smokers with chronic obstructive pulmonary disease. Journal of Cellular and Molecular Medicine, 2017, 21, 1280-1291.	3.6	22
105	CD47high Expression on CD4 Effectors Identifies Functional Long-Lived Memory T Cell Progenitors. Journal of Immunology, 2012, 188, 4249-4255.	0.8	20
106	Involvement of apoptosis-inducing factor during dolichyl monophosphate-induced apoptosis in U937 cells. FEBS Letters, 2000, 480, 197-200.	2.8	19
107	Genetic characterization of B-cell prolymphocytic leukemia: a prognostic model involving MYC and TP53. Blood, 2019, 134, 1821-1831.	1.4	18
108	Semisynthesis and Screening of a Small Library of Pro-Apoptotic Squamocin Analogues: Selection and Study of a Benzoquinone Hybrid with an Improved Biological Profile.. ChemMedChem, 2006, 1, 118-129.	3.2	17

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109	Functional assessment of p53 in chronic lymphocytic leukemia. Blood Cancer Journal, 2011, 1, e5-e5.	6.2	13
110	â€œDoubleâ€hitâ€•chronic lymphocytic leukemia: An aggressive subgroup with 17p deletion and 8q24 gain. American Journal of Hematology, 2018, 93, 375-382.	4.1	13
111	Targeting chronic lymphocytic leukemia with N-methylated thrombospondin-1â€"derived peptides overcomes drug resistance. Blood Advances, 2019, 3, 2920-2933.	5.2	11
112	Gain of the short arm of chromosome 2 (2p gain) has a significant role in drugâ€resistant chronic lymphocytic leukemia. Cancer Medicine, 2019, 8, 3131-3141.	2.8	10
113	The Oxido-reductase Activity of the Apoptosis Inducing Factor: A Promising Pharmacological Tool?. Current Pharmaceutical Design, 2013, 19, 2628-2636.	1.9	10
114	Caspase-independent type III PCD: a new means to modulate cell death in chronic lymphocytic leukemia. Leukemia, 2009, 23, 974-977.	7.2	9
115	Activation of Interferon Signaling in Chronic Lymphocytic Leukemia Cells Contributes to Apoptosis Resistance via a JAK-Src/STAT3/Mcl-1 Signaling Pathway. Biomedicines, 2021, 9, 188.	3.2	8
116	Caspase-independent commitment phase to apoptosis in activated blood T lymphocytes: reversibility at low apoptotic insult. Blood, 2000, 96, 1030-1038.	1.4	8
117	Thermospray and electrospray mass spectrometry of flavocoenzymes. Analysis of riboflavin sulphates from sugar beet. Analytica Chimica Acta, 1995, 302, 215-223.	5.4	7
118	Authors' response: Chloromethyl-X-Rosamine?A fluorochrome for the determination of the mitochondrial transmembrane potential. Cytometry, 1998, 31, 75-75.	1.8	7
119	Mitochondrial OXPHOS influences immune cell fate: lessons from hematopoietic AIF-deficient and NDUFS4-deficient mouse models. Cell Death and Disease, 2018, 9, 581.	6.3	7
120	Relation of Neutrophil Gelatinase-Associated Lipocalin Overexpression to the Resistance to Apoptosis of Tumor B Cells in Chronic Lymphocytic Leukemia. Cancers, 2020, 12, 2124.	3.7	7
121	Cytofluorometric Quantitation of Nuclear Apoptosis Induced in a Cell-Free System. Methods in Enzymology, 2000, 322, 198-201.	1.0	5
122	Photosynthetic characteristics of iron chlorotic pear(Pyrus commuaisL.). Journal of Plant Nutrition, 1992, 15, 1783-1790.	1.9	4
123	Homotrimerization Approach in the Design of Thrombospondin-1 Mimetic Peptides with Improved Potency in Triggering Regulated Cell Death of Cancer Cells. Journal of Medicinal Chemistry, 2019, 62, 7656-7668.	6.4	4
124	Simplification of complex peptide mixtures for proteomic analysis: Reversible biotinylation of cysteinyl peptides. Electrophoresis, 2000, 21, 1635-1650.	2.4	2
125	Keeping Cell Death Alive: An Introduction into the French Cell Death Research Network. Biomolecules, 2022, 12, 901.	4.0	2
126	The Gain of the Short Arm of Chromosome 2 (2p+) Induces XPO1 Overexpression and Drug Resistance in Chronic Lymphocytic Leukemia. Blood, 2015, 126, 492-492.	1.4	1

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127	Programmed Necrosis: A â€œNewâ€•Cell Death Outcome for Injured Adult Neurons?. , 2010, , 35-66.		0