Thomas G Cotter

List of Publications by Year
in descending order

93 papers	7,638 citations	81839 39 h-index	56687 83 g-index
93 all docs	93 docs citations	93 times ranked	10756 citing authors

#	Article	IF	Citations
1	ROS signalling in the biology of cancer. Seminars in Cell and Developmental Biology, 2018, 80, 50-64.	2.3	1,267
2	Apoptosis and cancer: the genesis of a research field. Nature Reviews Cancer, 2009, 9, 501-507.	12.8	653
3	Bax-induced Caspase Activation and Apoptosis via Cytochromec Release from Mitochondria Is Inhibitable by Bcl-xL. Journal of Biological Chemistry, 1999, 274, 2225-2233.	1.6	638
4	Regulation and measurement of oxidative stress in apoptosis. Journal of Immunological Methods, 2002, 265, 49-72.	0.6	503
5	Hydrogen Peroxide as a Cell-Survival Signaling Molecule. Antioxidants and Redox Signaling, 2009, 11, 2655-2671.	2.5	274
6	Redox regulation of protein kinases. FEBS Journal, 2013, 280, 1944-1965.	2.2	244
7	Control of mitochondrial integrity by Bcl-2 family members and caspase-independent cell death. Biochimica Et Biophysica Acta - Molecular Cell Research, 2004, 1644, 133-147.	1.9	210
8	Role of peroxide and superoxide anion during tumour cell apoptosis. FEBS Letters, 1997, 404, 27-33.	1.3	201
9	Apoptosis or necrosis: Intracellular levels of glutathione influence mode of cell death. Biochemical Pharmacology, 1994, 48, 675-681.	2.0	185
10	Anti-apoptotic oncogenes prevent caspase-dependent and independent commitment for cell death. Cell Death and Differentiation, 1998, 5, 298-306.	5.0	171
11	Inhibition of apoptosis by antioxidants in the human HL-60 leukemia cell line. Biochemical Pharmacology, 1995, 50, 1021-1029.	2.0	169
12	Live and let die: regulatory mechanisms in Fas-mediated apoptosis. Cellular Signalling, 2003, 15, 983-992.	1.7	169
13	Light-induced Photoreceptor Apoptosis in Vivo Requires Neuronal Nitric-oxide Synthase and Guanylate Cyclase Activity and Is Caspase-3-independent. Journal of Biological Chemistry, 2001, 276, 23000-23008.	1.6	157
14	Caspase-Independent Photoreceptor Apoptosis in Mouse Models of Retinal Degeneration. Journal of Neuroscience, 2003, 23, 5723-5731.	1.7	149
15	Antioxidant-mediated inhibition of the heat shock response leads to apoptosis. FEBS Letters, 1999, 445, 98-102.	1.3	123
16	Cell shrinkage and apoptosis: a role for potassium and sodium ion efflux. Cell Death and Differentiation, 1997, 4, 756-770.	5.0	116
17	Oxidative Stress-induced Apoptosis in Retinal Photoreceptor Cells Is Mediated by Calpains and Caspases and Blocked by the Oxygen Radical Scavenger CR-6. Journal of Biological Chemistry, 2004, 279, 39268-39278.	1.6	105
18	Ceramide is the key mediator of oxidative stress-induced apoptosis in retinal photoreceptor cells. Journal of Neurochemistry, 2006, 98, 1432-1444.	2.1	103

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19	Reactive Oxygen Species as Mediators of Photoreceptor Apoptosisin Vitro. Experimental Cell Research, 1999, 248, 520-530.	1.2	98
20	NADPH Oxidase-generated Hydrogen Peroxide Induces DNA Damage in Mutant FLT3-expressing Leukemia Cells. Journal of Biological Chemistry, 2015, 290, 9348-9361.	1.6	76
21	ROS signalling, NADPH oxidases and cancer. Biochemical Society Transactions, 2014, 42, 934-938.	1.6	69
22	Chemotherapeutic drugâ€induced apoptosis in human leukaemic cells is independent of the Fas (APOâ€1/CD95) receptor/ligand system. British Journal of Haematology, 1998, 101, 539-547.	1.2	67
23	New Insight into the Role of Reactive Oxygen Species (ROS) in Cellular Signal-Transduction Processes. International Review of Cell and Molecular Biology, 2015, 319, 221-254.	1.6	66
24	Molecular Abnormalities in Chronic Myeloid Leukemia: Deregulation of Cell Growth and Apoptosis. Oncologist, 2000, 5, 405-415.	1.9	62
25	Enhancing survival of photoreceptor cells in vivo using the synthetic progestin Norgestrel. Journal of Neurochemistry, 2011, 118, 915-927.	2.1	59
26	Key apoptosis regulating proteins are down-regulated during postnatal tissue development. International Journal of Developmental Biology, 2007, 51, 415-424.	0.3	58
27	NOX-driven ROS formation in cell transformation of FLT3-ITD-positive AML. Experimental Hematology, 2016, 44, 1113-1122.	0.2	56
28	Antibody-Targeted Cyclodextrin-Based Nanoparticles for siRNA Delivery in the Treatment of Acute Myeloid Leukemia: Physicochemical Characteristics, in Vitro Mechanistic Studies, and ex Vivo Patient Derived Therapeutic Efficacy. Molecular Pharmaceutics, 2017, 14, 940-952.	2.3	56
29	Stressâ€induced activation of Nox contributes to cell survival signalling via production of hydrogen peroxide. Journal of Neurochemistry, 2009, 109, 1544-1554.	2.1	55
30	H2O2 Production Downstream of FLT3 Is Mediated by p22phox in the Endoplasmic Reticulum and Is Required for STAT5 Signalling. PLoS ONE, 2012, 7, e34050.	1.1	54
31	Microglialâ€induced MÃ¼ller cell gliosis is attenuated by progesterone in a mouse model of retinitis pigmentosa. Glia, 2018, 66, 295-310.	2.5	52
32	Decreased expression of pro-apoptotic Bcl-2 family members during retinal development and differential sensitivity to cell death. Developmental Biology, 2006, 291, 154-169.	0.9	51
33	Use of flow cytometry techniques in studying mechanisms of apoptosis in leukemic cells. Cytometry, 1997, 29, 97-105.	1.8	48
34	Downregulation of Bcr-Abl in K562 cells restores susceptibility to apoptosis: Characterization of the apoptotic death. Cell Death and Differentiation, 1997, 4, 95-104.	5.0	46
35	Functional Aspects of Apoptosis in Hematopoiesis and Consequences of Failure. Advances in Cancer Research, 1997, 71, 121-164.	1.9	45
36	Rod and cone photoreceptor cells produce ROS in response to stress in a live retinal explant system. Molecular Vision, 2010, 16, 283-93.	1.1	45

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37	Progesterone Attenuates Microglial-Driven Retinal Degeneration and Stimulates Protective Fractalkine-CX3CR1 Signaling. PLoS ONE, 2016, 11, e0165197.	1.1	44
38	Basic fibroblast growth factor-induced protection from light damage in the mouse retina in vivo. Journal of Neurochemistry, 2008, 105, 524-536.	2.1	43
39	Progesterone receptor signalling in retinal photoreceptor neuroprotection. Journal of Neurochemistry, 2016, 136, 63-77.	2.1	41
40	Alterations to retinal architecture prior to photoreceptor loss in a mouse model of retinitis pigmentosa. International Journal of Developmental Biology, 2016, 60, 127-139.	0.3	37
41	Subcellular localization of the FLT3-ITD oncogene plays a significant role in the production of NOX- and p22phox-derived reactive oxygen species in acute myeloid leukemia. Leukemia Research, 2017, 52, 34-42.	0.4	37
42	Rosiglitazone acts as a neuroprotectant in retinal cells via upâ€•regulation of sestrinâ€1 and SODâ€2. Journal of Neurochemistry, 2009, 109, 631-643.	2.1	36
43	Bcr-Abl upregulates cytosolic p21WAF-1/CIP-1 by a phosphoinositide-3-kinase (PI3K)-independent pathway. British Journal of Haematology, 2003, 123, 34-44.	1.2	35
44	bFGF promotes photoreceptor cell survival in vitro by PKAâ€•mediated inactivation of glycogen synthase kinase 3Î² and CREBâ€dependent Bclâ€2 upâ€•regulation. Journal of Neurochemistry, 2007, 103, 860-870.	2.1	35
45	Reactive Oxygen Species Regulate Prosurvival ERK1/2 Signaling and bFGF Expression in Gliosis within the Retina. , 2012, 53, 6645.		35
46	Histone deacetylase activity in conjunction with E2Fâ€1 and p53 regulates Apafâ€1 expression in 661W cells and the retina. Journal of Neuroscience Research, 2009, 87, 887-905.	1.3	34
47	Cell Death in the Myeloid Lineage. Immunological Reviews, 1994, 142, 93-112.	2.8	33
48	BCR-ABL: An Anti-Apoptosis Gene in Chronic Myelogenous Leukemia. Leukemia and Lymphoma, 1995, 18, 231-236.	0.6	33
49	Comparative structural and functional analysis of photoreceptor neurons of Rho-/- mice reveal increased survival on C57BL/6J in comparison to 129Sv genetic background. Visual Neuroscience, 2001, 18, 437-443.	0.5	31
50	Age-Dependent Susceptibility of the Retinal Ganglion Cell Layer to Cell Death. , 2006, 47, 807.		31
51	Fractalkine-CX3CR1 signaling is critical for progesterone-mediated neuroprotection in the retina. Scientific Reports, 2017, 7, 43067.	1.6	31
52	ROS and protein oxidation in early stages of cytotoxic drug induced apoptosis. Free Radical Research, 2006, 40, 1124-1137.	1.5	30
53	Bim Expression Indicates the Pathway to Retinal Cell Death in Development and Degeneration. Journal of Neuroscience, 2007, 27, 10887-10894.	1.7	29
54	Histone Deacetylase Activity Regulates Apaf-1 and Caspase 3 Expression in the Developing Mouse Retina. , 2006, 47, 2765.		27

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55	The ability to cleave 28S ribosomal RNA during apoptosis is a cell-type dependent trait unrelated to DNA fragmentation. Cell Death and Differentiation, 1997, 4, 289-293.	5.0	25
56	Cell Death in Brain Development and Degeneration: Control of Caspase Expression May Be Key!. Molecular Neurobiology, 2008, 37, 1-6.	1.9	25
57	Molecular Events and Mechanisms of Apoptosis. Sepsis, 1998, 2, 9-19.	0.5	24
58	The synthetic progestin norgestrel modulates Nrf2 signaling and acts as an antioxidant in a model of retinal degeneration. Redox Biology, 2016, 10, 128-139.	3.9	24
59	Preventing retinal apoptosis â€" Is there a common therapeutic theme?. Experimental Cell Research, 2012, 318, 1278-1284.	1.2	23
60	Imatinib and Nilotinib inhibit Bcrâ€"Abl-induced ROS through targeted degradation of the NADPH oxidase subunit p22phox. Leukemia Research, 2013, 37, 183-189.	0.4	23
61	Inhibition of caspase activity delays apoptosis in a transfected NS/0 myeloma cell line. Biotechnology and Bioengineering, 2000, 67, 165-176.	1.7	21
62	Inhibition of Protein-tyrosine Phosphatase 1B (PTP1B) Mediates Ubiquitination and Degradation of Bcr-Abl Protein. Journal of Biological Chemistry, 2011, 286, 32313-32323.	1.6	21
63	Redox-Regulated Growth Factor Survival Signaling. Antioxidants and Redox Signaling, 2013, 19, 1815-1827.	2.5	21
64	Analysis of apoptotic and survival mediators in the early post-natal and mature retina. Experimental Eye Research, 2006, 83, 1482-1492.	1.2	20
65	The synthetic progesterone <scp>N</scp>orgestrel is neuroprotective in stressed photoreceptorâ€like cells and retinal explants, mediating its effects via basic fibroblast growth factor, protein kinase <scp>A</scp> and glycogen synthase kinase 3Î² signalling. European Journal of Neuroscience, 2016, 43, 899-911.	1.2	20
66	Bcr-Abl regulates osteopontin transcription via Ras, PI-3K, aPKC, Raf-1, and MEK. Journal of Leukocyte Biology, 2005, 78, 289-300.	1.5	19
67	bFGF-mediated redox activation of the PI3K/Akt pathway in retinal photoreceptor cells. European Journal of Neuroscience, 2011, 33, 632-641.	1.2	18
68	Differential roles of ERK1/2 and JNK in retinal development and degeneration. Journal of Neurochemistry, 2011, 116, 33-42.	2.1	18
69	7-formyl-10-methylisoellipticine, a novel ellipticine derivative, induces mitochondrial reactive oxygen species (ROS) and shows anti-leukaemic activity in mice. Investigational New Drugs, 2016, 34, 15-23.	1.2	18
70	The synthetic progestin norgestrel acts to increase LIF levels in the rd10 mouse model of retinitis pigmentosa. Molecular Vision, 2016, 22, 264-74.	1.1	18
71	Proâ€survival redox signalling in progesteroneâ€mediated retinal neuroprotection. European Journal of Neuroscience, 2017, 46, 1663-1672.	1.2	17
72	A stress survival response in retinal cells mediated through inhibition of the serineâ€Š/â€Šthreonine phosphatase PP2A. European Journal of Neuroscience, 2010, 32, 322-334.	1.2	16

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73	Age-dependent rat retinal ganglion cell susceptibility to apoptotic stimuli: implications for glaucoma. Clinical and Experimental Ophthalmology, 2011, 39, 243-251.	1.3	15
74	Inhibition of PI3-kinase sensitises HL60 human leukaemia cells to both chemotherapeutic drug- and Fas-induced apoptosis by a JNK independent pathway. Leukemia Research, 2001, 25, 801-811.	0.4	14
75	Norgestrel, a Progesterone Analogue, Promotes Significant Long-Term Neuroprotection of Cone Photoreceptors in a Mouse Model of Retinal Disease. , 2019, 60, 3221.		14
76	Induction of BIMELfollowing growth factor withdrawal is a key event in caspase-dependent apoptosis of 661W photoreceptor cells. European Journal of Neuroscience, 2006, 24, 981-990.	1.2	13
77	Norgestrel may be a potential therapy for retinal degenerations. Expert Opinion on Investigational Drugs, 2012, 21, 579-581.	1.9	13
78	Progesterone analogue protects stressed photoreceptors via <scp>bFGF</scp>â€•mediated calcium influx. European Journal of Neuroscience, 2016, 44, 3067-3079.	1.2	13
79	DUOX enzyme activity promotes AKT signalling in prostate cancer cells. Anticancer Research, 2012, 32, 5175-81.	0.5	12
80	A novel free radical scavenger rescues retinal cells inÂvivo. Experimental Eye Research, 2011, 93, 65-74.	1.2	10
81	Nuclear membrane-localised NOX4D generates pro-survival ROS in FLT3-ITD-expressing AML. Oncotarget, 2017, 8, 105440-105457.	0.8	10
82	FLT3-driven redox-modulation of Ezrin regulates leukaemic cell migration. Free Radical Research, 2013, 47, 20-34.	1.5	7
83	Rod Photoreceptor Neuroprotection in Dark-RearedPde6brd10Mice. , 2020, 61, 14.		7
84	Rapid detection of rod photoreceptor apoptosis by flow cytometry. , 1998, 33, 89-92.		6
85	Leukocyte Bim deficiency does not impact atherogenesis in ldlr â^'/â^' mice, despite a pronounced induction of autoimmune inflammation. Scientific Reports, 2017, 7, 3086.	1.6	4
86	Light-induced Photoreceptor Apoptosis in vivo is Caspase Independent and Mediated by Nitric Oxide. Scientific World Journal, The, 2001, 1, 52-52.	0.8	3
87	Oxidative Stress Biomarkers and ROS Molecular Probes. ACS Symposium Series, 2015, , 353-374.	0.5	2
88	Apoptosis, the dermatologist, the venereologist and the patient. Journal of the European Academy of Dermatology and Venereology, 1995, 5, 1-8.	1.3	1
89	Clinical Implications of the Mechanisms Driving Breast Cancer Local Recurrence. Annals of Surgical Oncology, 2009, 16, 785-786.	0.7	1
90	A PLASMA FACTOR PROMOTES ERYTHROCYTE SURVIVAL IN CULTURE. Biochemical Society Transactions, 2000, 28, A29-A29.	1.6	0

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91	Retinitis Pigmentosa. Oxidative Stress and Disease, 2003, , .	0.3	0
92	A Novel Bcr-Abl Mediated Pro-Survival Pathway: Reduction of Releasable Calcium Levels in the Endoplasmic Reticulum Inhibits Calcium Dependent Apoptotic Signaling.. Blood, 2005, 106, 2621-2621.	0.6	0
93	Cell Death Analysis in Retinal Cultures. Methods in Molecular Biology, 2019, 1834, 143-152.	0.4	0