Seamus J Martin

List of Publications by Citations

147 papers	38,262 citations	77 h-index	182 g-index
182 ext. papers	42,121 ext. citations	11.2 avg, IF	7.11 L-index

#	Paper	IF	Citations
147	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). *Autophagy*, **2016**, 12, 1-222	10.2	3838
146	Guidelines for the use and interpretation of assays for monitoring autophagy. *Autophagy*, **2012**, 8, 445-544	10.2	2783
145	Early redistribution of plasma membrane phosphatidylserine is a general feature of apoptosis regardless of the initiating stimulus: inhibition by overexpression of Bcl-2 and Abl. *Journal of Experimental Medicine*, **1995**, 182, 1545-56	16.6	2493
144	Suppression of TNF-alpha-induced apoptosis by NF-kappaB. *Science*, **1996**, 274, 787-9	33.3	2401
143	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. *Cell Death and Differentiation*, **2018**, 25, 486-541	12.7	2160
142	Apoptosis: controlled demolition at the cellular level. *Nature Reviews Molecular Cell Biology*, **2008**, 9, 231-41	48.7	1820
141	Ordering the cytochrome c-initiated caspase cascade: hierarchical activation of caspases-2, -3, -6, -7, -8, and -10 in a caspase-9-dependent manner. *Journal of Cell Biology*, **1999**, 144, 281-92	7.3	1614
140	Protease activation during apoptosis: death by a thousand cuts?. *Cell*, **1995**, 82, 349-52	56.2	1247
139	Cell-autonomous Fas (CD95)/Fas-ligand interaction mediates activation-induced apoptosis in T-cell hybridomas. *Nature*, **1995**, 373, 441-4	50.4	1192
138	Autophagy in malignant transformation and cancer progression. *EMBO Journal*, **2015**, 34, 856-80	13	801
137	Executioner caspase-3, -6, and -7 perform distinct, non-redundant roles during the demolition phase of apoptosis. *Journal of Biological Chemistry*, **2001**, 276, 7320-6	5.4	736
136	Acid sphingomyelinase-deficient human lymphoblasts and mice are defective in radiation-induced apoptosis. *Cell*, **1996**, 86, 189-99	56.2	710
135	Dose-dependent induction of apoptosis in human tumour cell lines by widely diverging stimuli. *Cell Proliferation*, **1991**, 24, 203-14	7.9	702
134	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. *Cell Death and Differentiation*, **2015**, 22, 58-73	12.7	643
133	Caspase-independent cell death. *Nature Medicine*, **2005**, 11, 725-30	50.5	598
132	Guidelines for the use and interpretation of assays for monitoring cell death in higher eukaryotes. *Cell Death and Differentiation*, **2009**, 16, 1093-107	12.7	533
131	Suppression of interleukin-33 bioactivity through proteolysis by apoptotic caspases. *Immunity*, **2009**, 31, 84-98	32.3	514

130	The role of mitochondrial factors in apoptosis: a Russian roulette with more than one bullet. *Cell Death and Differentiation*, **2002**, 9, 1031-42	12.7	498
129	The mitochondrial apoptosome: a killer unleashed by the cytochrome seas. *Trends in Biochemical Sciences*, **2001**, 26, 390-7	10.3	440
128	Proteolysis of fodrin (non-erythroid spectrin) during apoptosis. *Journal of Biological Chemistry*, **1995**, 270, 6425-8	5.4	428
127	FAS-induced apoptosis is mediated via a ceramide-initiated RAS signaling pathway. *Immunity*, **1995**, 2, 341-51	32.3	389
126	The end of the (cell) line: methods for the study of apoptosis in vitro. *Methods in Cell Biology*, **1995**, 46, 153-85	1.8	379
125	Executioner caspase-3 and caspase-7 are functionally distinct proteases. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 12815-9	11.5	370
124	Serial killers: ordering caspase activation events in apoptosis. *Cell Death and Differentiation*, **1999**, 6, 1067-74	12.7	364
123	Oncogenic Ras-induced expression of Noxa and Beclin-1 promotes autophagic cell death and limits clonogenic survival. *Molecular Cell*, **2011**, 42, 23-35	17.6	330
122	Inhibition of TNF-induced apoptosis by NF-kappa B. *Trends in Cell Biology*, **1998**, 8, 107-11	18.3	329
121	The CASBAH: a searchable database of caspase substrates. *Cell Death and Differentiation*, **2007**, 14, 641-50	12.7	329
120	Apoptosis-associated release of Smac/DIABLO from mitochondria requires active caspases and is blocked by Bcl-2. *EMBO Journal*, **2001**, 20, 6627-36	13	329
119	Cytochrome c activation of CPP32-like proteolysis plays a critical role in a Xenopus cell-free apoptosis system. *EMBO Journal*, **1997**, 16, 4639-49	13	315
118	Dicing with death: dissecting the components of the apoptosis machinery. *Trends in Biochemical Sciences*, **1994**, 19, 26-30	10.3	313
117	Phosphatidylserine externalization during CD95-induced apoptosis of cells and cytoplasts requires ICE/CED-3 protease activity. *Journal of Biological Chemistry*, **1996**, 271, 28753-6	5.4	286
116	Proteolytic Processing of Interleukin-1 Family Cytokines: Variations on a Common Theme. *Immunity* , **2015**, 42, 991-1004	32.3	267
115	Caspase-activation pathways in apoptosis and immunity. *Immunological Reviews*, **2003**, 193, 10-21	11.3	248
114	Bax- or Bak-induced mitochondrial fission can be uncoupled from cytochrome C release. *Molecular Cell*, **2008**, 31, 570-585	17.6	222
113	Granzymes in cancer and immunity. *Cell Death and Differentiation*, **2010**, 17, 616-23	12.7	210

112	Analysis of the composition, assembly kinetics and activity of native Apaf-1 apoptosomes. *EMBO Journal*, **2004**, 23, 2134-45	13	208
111	Granzyme B-dependent proteolysis acts as a switch to enhance the proinflammatory activity of IL-1 *Molecular Cell*, **2011**, 44, 265-78	17.6	193
110	To NET or not to NET:current opinions and state of the science regarding the formation of neutrophil extracellular traps. *Cell Death and Differentiation*, **2019**, 26, 395-408	12.7	185
109	Neutrophil-Derived Proteases Escalate Inflammation through Activation of IL-36 Family Cytokines. *Cell Reports*, **2016**, 14, 708-722	10.6	167
108	Mechanisms of granule-dependent killing. *Cell Death and Differentiation*, **2008**, 15, 251-62	12.7	166
107	Role for CED-9 and Egl-1 as regulators of mitochondrial fission and fusion dynamics. *Molecular Cell*, **2006**, 21, 761-73	17.6	166
106	Anti-apoptotic oncogenes prevent caspase-dependent and independent commitment for cell death. *Cell Death and Differentiation*, **1998**, 5, 298-306	12.7	160
105	Mitochondrial fission/fusion dynamics and apoptosis. *Mitochondrion*, **2010**, 10, 640-8	4.9	158
104	Cytotoxic and non-cytotoxic roles of the CTL/NK protease granzyme B. *Immunological Reviews*, **2010**, 235, 105-16	11.3	156
103	Emerging role for members of the Bcl-2 family in mitochondrial morphogenesis. *Molecular Cell*, **2009**, 36, 355-63	17.6	156
102	Ultraviolet B irradiation of human leukaemia HL-60 cells in vitro induces apoptosis. *International Journal of Radiation Biology*, **1991**, 59, 1001-16	2.9	154
101	Diverse Activators of the NLRP3 Inflammasome Promote IL-1 Secretion by Triggering Necrosis. *Cell Reports*, **2015**, 11, 1535-48	10.6	150
100	Fas/CD95-induced chemokines can serve as "find-me" signals for apoptotic cells. *Molecular Cell*, **2013**, 49, 1034-48	17.6	150
99	Caspase activation cascades in apoptosis. *Biochemical Society Transactions*, **2008**, 36, 1-9	5.1	150
98	A perspective on mammalian caspases as positive and negative regulators of inflammation. *Molecular Cell*, **2012**, 46, 387-97	17.6	149
97	Bcl-2 family proteins participate in mitochondrial quality control by regulating Parkin/PINK1-dependent mitophagy. *Molecular Cell*, **2014**, 55, 451-66	17.6	137
96	Degradation of retinoblastoma protein in tumor necrosis factor- and CD95-induced cell death. *Journal of Biological Chemistry*, **1997**, 272, 9613-6	5.4	134
95	Expression, purification and use of recombinant annexin V for the detection of apoptotic cells. *Nature Protocols*, **2009**, 4, 1383-95	18.8	133

94	Apoptosis and cancer: the failure of controls on cell death and cell survival. *Critical Reviews in Oncology/Hematology*, **1995**, 18, 137-53	7	128
93	Caspase-8 Acts in a Non-enzymatic Role as a Scaffold for Assembly of a Pro-inflammatory "FADDosome" Complex upon TRAIL Stimulation. *Molecular Cell*, **2017**, 65, 715-729.e5	17.6	126
92	CARD games in apoptosis and immunity. *EMBO Reports*, **2002**, 3, 616-21	6.5	124
91	An Inflammatory Perspective on Necroptosis. *Molecular Cell*, **2017**, 65, 965-973	17.6	117
90	Measuring apoptosis by microscopy and flow cytometry. *Methods*, **2013**, 61, 90-7	4.6	116
89	Apoptosis: suicide, execution or murder?. *Trends in Cell Biology*, **1993**, 3, 141-4	18.3	114
88	Inflammatory outcomes of apoptosis, necrosis and necroptosis. *Biological Chemistry*, **2014**, 395, 1163-71	4.5	112
87	Regulation of the Fas apoptotic cell death pathway by Abl. *Journal of Biological Chemistry*, **1995**, 270, 22625-31	5.4	112
86	Destabilizing influences in apoptosis: sowing the seeds of IAP destruction. *Cell*, **2002**, 109, 793-6	56.2	111
85	Parkin sensitizes toward apoptosis induced by mitochondrial depolarization through promoting degradation of Mcl-1. *Cell Reports*, **2014**, 9, 1538-53	10.6	104
84	Cell death and inflammation: the case for IL-1 family cytokines as the canonical DAMPs of the immune system. *FEBS Journal*, **2016**, 283, 2599-615	5.7	103
83	Human and murine granzyme B exhibit divergent substrate preferences. *Journal of Cell Biology*, **2007**, 176, 435-44	7.3	102
82	Molecular ordering of the caspase activation cascade initiated by the cytotoxic T lymphocyte/natural killer (CTL/NK) protease granzyme B. *Journal of Biological Chemistry*, **2005**, 280, 4663-73	5.4	100
81	Extracellular Neutrophil Proteases Are Efficient Regulators of IL-1, IL-33, and IL-36 Cytokine Activity but Poor Effectors of Microbial Killing. *Cell Reports*, **2018**, 22, 2937-2950	10.6	95
80	The apoptosome pathway to caspase activation in primary human neutrophils exhibits dramatically reduced requirements for cytochrome C. *Journal of Experimental Medicine*, **2003**, 197, 625-32	16.6	90
79	The killer and the executioner: how apoptosis controls malignancy. *Current Opinion in Immunology*, **1995**, 7, 694-703	7.8	88
78	Failure of Bcl-2 to block cytochrome c redistribution during TRAIL-induced apoptosis. *FEBS Letters*, **2000**, 471, 93-8	3.8	87
77	CARDINAL, a novel caspase recruitment domain protein, is an inhibitor of multiple NF-kappa B activation pathways. *Journal of Biological Chemistry*, **2001**, 276, 44069-77	5.4	85

76	Events in apoptosis. Acidification is downstream of protease activation and BCL-2 protection. *Journal of Biological Chemistry*, **1996**, 271, 16260-2	5.4	85
75	Regulation of apoptotic protease activating factor-1 oligomerization and apoptosis by the WD-40 repeat region. *Journal of Biological Chemistry*, **1999**, 274, 20855-60	5.4	84
74	Pro-apoptotic proteins released from the mitochondria regulate the protein composition and caspase-processing activity of the native Apaf-1/caspase-9 apoptosome complex. *Journal of Biological Chemistry*, **2004**, 279, 19665-82	5.4	83
73	Necroptosis suppresses inflammation via termination of TNF- or LPS-induced cytokine and chemokine production. *Cell Death and Differentiation*, **2015**, 22, 1313-27	12.7	80
72	Programmed cell death (apoptosis) in lymphoid and myeloid cell lines during zinc deficiency. *Clinical and Experimental Immunology*, **1991**, 83, 338-43	6.2	80
71	The viral nucleocapsid protein of transmissible gastroenteritis coronavirus (TGEV) is cleaved by caspase-6 and -7 during TGEV-induced apoptosis. *Journal of Virology*, **2000**, 74, 3975-83	6.6	75
70	Apoptosis as a goal of cancer therapy. *Current Opinion in Oncology*, **1994**, 6, 616-21	4.2	74
69	PIAS-1 is a checkpoint regulator which affects exit from G1 and G2 by sumoylation of p73. *Molecular and Cellular Biology*, **2004**, 24, 10593-610	4.8	72
68	Portrait of a killer: the mitochondrial apoptosome emerges from the shadows. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2003**, 3, 19-26		71
67	Partial cleavage of RasGAP by caspases is required for cell survival in mild stress conditions. *Molecular and Cellular Biology*, **2004**, 24, 10425-36	4.8	69
66	The cytotoxic lymphocyte protease, granzyme B, targets the cytoskeleton and perturbs microtubule polymerization dynamics. *Journal of Biological Chemistry*, **2006**, 281, 8118-25	5.4	67
65	Iodine-124 labelled annexin-V as a potential radiotracer to study apoptosis using positron emission tomography. *Applied Radiation and Isotopes*, **2003**, 58, 55-62	1.7	67
64	An ERK-dependent pathway to Noxa expression regulates apoptosis by platinum-based chemotherapeutic drugs. *Oncogene*, **2010**, 29, 6428-41	9.2	66
63	Glucose Deprivation Induces ATF4-Mediated Apoptosis through TRAIL Death Receptors. *Molecular and Cellular Biology*, **2017**, 37,	4.8	64
62	Caspase-1 promiscuity is counterbalanced by rapid inactivation of processed enzyme. *Journal of Biological Chemistry*, **2011**, 286, 32513-24	5.4	64
61	Neutrophil extracellular traps can serve as platforms for processing and activation of IL-1 family cytokines. *FEBS Journal*, **2017**, 284, 1712-1725	5.7	63
60	RIPK1 can function as an inhibitor rather than an initiator of RIPK3-dependent necroptosis. *FEBS Journal*, **2014**, 281, 4921-34	5.7	57
59	Expression and purification of recombinant annexin V for the detection of membrane alterations on apoptotic cells. *Methods*, **2008**, 44, 235-40	4.6	57

58	Induction of apoptosis (programmed cell death) in tumour cell lines by widely diverging stimuli. *Biochemical Society Transactions*, **1990**, 18, 343-5	5.1	57
57	Oncogenic B-RafV600E inhibits apoptosis and promotes ERK-dependent inactivation of Bad and Bim. *Journal of Biological Chemistry*, **2008**, 283, 22128-35	5.4	56
56	Caspase-dependent inactivation of proteasome function during programmed cell death in Drosophila and man. *Journal of Biological Chemistry*, **2004**, 279, 36923-30	5.4	54
55	Fas and TRAIL 'death receptors' as initiators of inflammation: Implications for cancer. *Seminars in Cell and Developmental Biology*, **2015**, 39, 26-34	7.5	51
54	Smac/Diablo antagonizes ubiquitin ligase activity of inhibitor of apoptosis proteins. *Journal of Biological Chemistry*, **2004**, 279, 26906-14	5.4	51
53	Protein or RNA synthesis inhibition induces apoptosis of mature human CD4+ T cell blasts. *Immunology Letters*, **1993**, 35, 125-34	4.1	51
52	In vitro selectivity, in vivo biodistribution and tumour uptake of annexin V radiolabelled with a positron emitting radioisotope. *British Journal of Cancer*, **2003**, 89, 1327-33	8.7	50
51	Caspases: cellular demolition experts. *Biochemical Society Transactions*, **2001**, 29, 696-702	5.1	41
50	Bcl-2 family proteins and mitochondrial fission/fusion dynamics. *Cellular and Molecular Life Sciences*, **2010**, 67, 1599-606	10.3	40
49	Downregulation of Bcr-Abl in K562 cells restores susceptibility to apoptosis: characterization of the apoptotic death. *Cell Death and Differentiation*, **1997**, 4, 95-104	12.7	38
48	Nucleophosmin is cleaved and inactivated by the cytotoxic granule protease granzyme M during natural killer cell-mediated killing. *Journal of Biological Chemistry*, **2009**, 284, 5137-47	5.4	34
47	Inhibitor of apoptosis proteins (IAPs) and their antagonists regulate spontaneous and tumor necrosis factor (TNF)-induced proinflammatory cytokine and chemokine production. *Journal of Biological Chemistry*, **2013**, 288, 4878-90	5.4	33
46	Caspase recruitment domain-containing protein 8 (CARD8) negatively regulates NOD2-mediated signaling. *Journal of Biological Chemistry*, **2010**, 285, 19921-6	5.4	32
45	Mitochondrial membrane remodeling in apoptosis: an inside story. *Cell Death and Differentiation*, **2006**, 13, 2007-10	12.7	31
44	Establishing a blueprint for CED-3-dependent killing through identification of multiple substrates for this protease. *Journal of Biological Chemistry*, **2007**, 282, 15011-21	5.4	29
43	iTAP, a novel iRhom interactor, controls TNF secretion by policing the stability of iRhom/TACE. *ELife*, **2018**, 7,	8.9	29
42	Suppressing IL-36-driven inflammation using peptide pseudosubstrates for neutrophil proteases. *Cell Death and Disease*, **2018**, 9, 378	9.8	27
41	A chromatin-independent role of Polycomb-like 1 to stabilize p53 and promote cellular quiescence. *Genes and Development*, **2015**, 29, 2231-43	12.6	25

40	Specific loss of microtubules in HL-60 cells leads to programmed cell death (apoptosis). *Biochemical Society Transactions*, **1990**, 18, 299-301	5.1	24
39	Interchain proteolysis, in the absence of a dimerization stimulus, can initiate apoptosis-associated caspase-8 activation. *Journal of Biological Chemistry*, **2004**, 279, 36916-22	5.4	22
38	Autophagy in multiple myeloma: what makes you stronger can also kill you. *Cancer Cell*, **2013**, 23, 425-6	24.3	21
37	Regulation of apoptosis by oncogenes. *Journal of Cellular Biochemistry*, **1996**, 60, 33-8	4.7	21
36	Measuring Apoptosis by Microscopy and Flow Cytometry. *Current Protocols in Immunology*, **2016**, 112, 14.38.1-14.38.24	4	21
35	TRAIL Receptors Serve as Stress-Associated Molecular Patterns to Promote ER-Stress-Induced Inflammation. *Developmental Cell*, **2020**, 52, 714-730.e5	10.2	19
34	Mind Bomb Regulates Cell Death during TNF Signaling by Suppressing RIPK1's Cytotoxic Potential. *Cell Reports*, **2018**, 23, 470-484	10.6	18
33	Apoptosomes: protease activation platforms to die from. *Trends in Biochemical Sciences*, **2006**, 31, 243-7	10.3	17
32	The involvement of RNA and protein synthesis in programmed cell death (apoptosis) in human leukaemia HL-60 cells. *Biochemical Society Transactions*, **1990**, 18, 634-6	5.1	16
31	Oncogene-induced autophagy and the Goldilocks principle. *Autophagy*, **2011**, 7, 922-3	10.2	15
30	Commitment in apoptosis: slightly dead but mostly alive. *Trends in Cell Biology*, **2008**, 18, 353-7	18.3	15
29	Cell biology. Double knockout blow for caspases. *Science*, **2006**, 311, 785-6	33.3	14
28	Disruption of microtubules induces an endogenous suicide pathway in human leukaemia HL-60 cells. *Cell Proliferation*, **1990**, 23, 545-59	7.9	13
27	Production of biologically active IL-36 family cytokines through insertion of N-terminal caspase cleavage motifs. *FEBS Open Bio*, **2016**, 6, 338-48	2.7	13
26	Proteomic and functional analysis identifies galectin-1 as a novel regulatory component of the cytotoxic granule machinery. *Cell Death and Disease*, **2017**, 8, e3176	9.8	12
25	Bicaudal is a conserved substrate for Drosophila and mammalian caspases and is essential for cell survival. *PLoS ONE*, **2009**, 4, e5055	3.7	12
24	Identification of small-molecule elastase inhibitors as antagonists of IL-36 cytokine activation. *FEBS Open Bio*, **2018**, 8, 751-763	2.7	11
23	Mitochondrial fusion: bax to the fussure. *Developmental Cell*, **2011**, 20, 142-3	10.2	9

22	Cell biology. Opening the cellular poison cabinet. *Science*, **2010**, 330, 1330-1	33.3	9
21	Apoptosis: calling time on apoptosome activity. *Science Signaling*, **2009**, 2, pe62	8.8	9
20	CARDINAL roles in apoptosis and NFkappaB activation. *Vitamins and Hormones*, **2004**, 67, 133-47	2.5	8
19	Greasing the path to BAX/BAK activation. *Cell*, **2012**, 148, 845-6	56.2	6
18	Cell stress-associated caspase activation: intrinsically complex?. *Science Signaling*, **2003**, 2003, pe11	8.8	6
17	Apoptosis During HIV Infection. *Advances in Experimental Medicine and Biology*, **1995**, 129-138	3.6	6
16	A Duel to the Death: Activated Caspases Meet Their Substrates. *Sepsis*, **1998**, 2, 21-29		5
15	Analysis of apoptosis in cell-free systems. *Methods*, **2008**, 44, 273-9	4.6	5
14	Two-dimensional gel-based analysis of the demolition phase of apoptosis. *Methods in Enzymology*, **2008**, 442, 343-54	1.7	5
13	Getting a gRIP on Flu by Casting the DAI. *Cell Host and Microbe*, **2016**, 20, 552-554	23.4	4
12	Writing a successful fellowship or grant application. *FEBS Journal*, **2017**, 284, 3771-3777	5.7	4
11	Regulation of caspase activation in apoptosis: implications for transformation and drug resistance. *Cytotechnology*, **1998**, 27, 309-20	2.2	4
10	Cytotoxic lymphocyte killing enters the ice age. *Advances in Experimental Medicine and Biology*, **1996**, 406, 29-37	3.6	3
9	c-Myc: Where Death and Division Collide. *Cell Cycle*, **2004**, 3, 454-457	4.7	1
8	TRAIL signalling promotes entosis in colorectal cancer		1
7	How to prepare and deliver a great talk. *FEBS Journal*, **2019**, 286, 39-45	5.7	
6	Staying alive: defensive strategies in the BCL-2 family playbook. *Molecular Cell*, **2011**, 44, 509-10	17.6	
5	Caspases: Agents of Defense and Destruction259-281		

4	Identification and characterization of a low molecular mass cell surface antigen which is deposited extracellularly by differentiating U-937 cells. *Biochemical Society Transactions*, **1989**, 17, 418-419	5.1
3	Caspases **2003**, 3-12	
2	Human and murine granzyme B exhibit divergent substrate preferences. *Journal of Experimental Medicine*, **2007**, 204, i4-i4	16.6
1	Regulation of caspase activation in apoptosis: implications for transformation and drug resistance **1998**, 309-320	