

# Tom Vanden Berghe

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107 papers	17,891 citations	54 h-index	116 g-index
116 ext. papers	21,948 ext. citations	11.3 avg, IF	6.85 L-index

#	Paper	IF	Citations
107	Molecular mechanisms of cell death: recommendations of the Nomenclature Committee on Cell Death 2018. <i>Cell Death and Differentiation</i> , <b>2018</b> , 25, 486-541	12.7	2160
106	Molecular mechanisms of necroptosis: an ordered cellular explosion. <i>Nature Reviews Molecular Cell Biology</i> , <b>2010</b> , 11, 700-14	48.7	1603
105	Regulated necrosis: the expanding network of non-apoptotic cell death pathways. <i>Nature Reviews Molecular Cell Biology</i> , <b>2014</b> , 15, 135-47	48.7	1063
104	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. <i>Cell Death and Differentiation</i> , <b>2015</b> , 22, 58-73	12.7	643
103	The molecular machinery of regulated cell death. <i>Cell Research</i> , <b>2019</b> , 29, 347-364	24.7	583
102	Targeting Ferroptosis to Iron Out Cancer. <i>Cancer Cell</i> , <b>2019</b> , 35, 830-849	24.3	569
101	Neutrophil extracellular trap cell death requires both autophagy and superoxide generation. <i>Cell Research</i> , <b>2011</b> , 21, 290-304	24.7	527
100	Synchronized renal tubular cell death involves ferroptosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 16836-41	11.5	519
99	Apoptosis and necrosis: detection, discrimination and phagocytosis. <i>Methods</i> , <b>2008</b> , 44, 205-21	4.6	465
98	Caspase-mediated cleavage of Beclin-1 inactivates Beclin-1-induced autophagy and enhances apoptosis by promoting the release of proapoptotic factors from mitochondria. <i>Cell Death and Disease</i> , <b>2010</b> , 1, e18	9.8	464
97	Necrosis, a well-orchestrated form of cell demise: signalling cascades, important mediators and concomitant immune response. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , <b>2006</b> , 1757, 1371-87	4.6	464
96	Caspases in cell survival, proliferation and differentiation. <i>Cell Death and Differentiation</i> , <b>2007</b> , 14, 44-55	12.7	442
95	RIP kinase-dependent necrosis drives lethal systemic inflammatory response syndrome. <i>Immunity</i> , <b>2011</b> , 35, 908-18	32.3	388
94	Dying for a cause: NETosis, mechanisms behind an antimicrobial cell death modality. <i>Cell Death and Differentiation</i> , <b>2011</b> , 18, 581-8	12.7	386
93	Necroptosis, necrosis and secondary necrosis converge on similar cellular disintegration features. <i>Cell Death and Differentiation</i> , <b>2010</b> , 17, 922-30	12.7	382
92	RIP kinases at the crossroads of cell death and survival. <i>Cell</i> , <b>2009</b> , 138, 229-32	56.2	374
91	RIP1, a kinase on the crossroads of a cell's decision to live or die. <i>Cell Death and Differentiation</i> , <b>2007</b> , 14, 400-10	12.7	359

90	The role of the kinases RIP1 and RIP3 in TNF-induced necrosis. <i>Science Signaling</i> , <b>2010</b> , 3, re4	8.8	348
89	Autophagy: for better or for worse. <i>Cell Research</i> , <b>2012</b> , 22, 43-61	24.7	304
88	Many stimuli pull the necrotic trigger, an overview. <i>Cell Death and Differentiation</i> , <b>2012</b> , 19, 75-86	12.7	290
87	Major cell death pathways at a glance. <i>Microbes and Infection</i> , <b>2009</b> , 11, 1050-62	9.3	258
86	Molecular mechanisms and pathophysiology of necrotic cell death. <i>Current Molecular Medicine</i> , <b>2008</b> , 8, 207-20	2.5	255
85	cIAP1 and TAK1 protect cells from TNF-induced necrosis by preventing RIP1/RIP3-dependent reactive oxygen species production. <i>Cell Death and Differentiation</i> , <b>2011</b> , 18, 656-65	12.7	251
84	Initiation and execution mechanisms of necroptosis: an overview. <i>Cell Death and Differentiation</i> , <b>2017</b> , 24, 1184-1195	12.7	235
83	Beclin1: a role in membrane dynamics and beyond. <i>Autophagy</i> , <b>2012</b> , 8, 6-17	10.2	222
82	Targeted peptidecentric proteomics reveals caspase-7 as a substrate of the caspase-1 inflammasomes. <i>Molecular and Cellular Proteomics</i> , <b>2008</b> , 7, 2350-63	7.6	221
81	Nano-targeted induction of dual ferroptotic mechanisms eradicates high-risk neuroblastoma. <i>Journal of Clinical Investigation</i> , <b>2018</b> , 128, 3341-3355	15.9	215
80	To NET or not to NET:current opinions and state of the science regarding the formation of neutrophil extracellular traps. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 395-408	12.7	185
79	Death receptor-induced apoptotic and necrotic cell death: differential role of caspases and mitochondria. <i>Cell Death and Differentiation</i> , <b>2001</b> , 8, 829-40	12.7	180
78	Role of IL-1 $\beta$ and the Nlrp3/caspase-1/IL-1 $\beta$ axis in cigarette smoke-induced pulmonary inflammation and COPD. <i>European Respiratory Journal</i> , <b>2011</b> , 38, 1019-28	13.6	168
77	Determination of apoptotic and necrotic cell death in vitro and in vivo. <i>Methods</i> , <b>2013</b> , 61, 117-29	4.6	163
76	TNF-induced necroptosis in L929 cells is tightly regulated by multiple TNFR1 complex I and II members. <i>Cell Death and Disease</i> , <b>2011</b> , 2, e230	9.8	163
75	Caspase inhibitors promote alternative cell death pathways. <i>Science's STKE: Signal Transduction Knowledge Environment</i> , <b>2006</b> , 2006, pe44		161
74	Depletion of RIPK3 or MLKL blocks TNF-driven necroptosis and switches towards a delayed RIPK1 kinase-dependent apoptosis. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1004	9.8	148
73	Passenger Mutations Confound Interpretation of All Genetically Modified Congenic Mice. <i>Immunity</i> , <b>2015</b> , 43, 200-9	32.3	128

72	Disruption of HSP90 function reverts tumor necrosis factor-induced necrosis to apoptosis. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 5622-9	5.4	127
71	Programmed necrosis from molecules to health and disease. <i>International Review of Cell and Molecular Biology</i> , <b>2011</b> , 289, 1-35	6	125
70	Molecular crosstalk between apoptosis, necroptosis, and survival signaling. <i>Molecular and Cellular Oncology</i> , <b>2015</b> , 2, e975093	1.2	121
69	Tipping the balance between necrosis and apoptosis in human and murine cells treated with interferon and dsRNA. <i>Cell Death and Differentiation</i> , <b>2002</b> , 9, 981-94	12.7	117
68	The death-fold superfamily of homotypic interaction motifs. <i>Trends in Biochemical Sciences</i> , <b>2011</b> , 36, 541-52	10.3	112
67	Simultaneous targeting of IL-1 and IL-18 is required for protection against inflammatory and septic shock. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2014</b> , 189, 282-91	10.2	109
66	Necroptosis, in vivo detection in experimental disease models. <i>Seminars in Cell and Developmental Biology</i> , <b>2014</b> , 35, 2-13	7.5	108
65	Methods for distinguishing apoptotic from necrotic cells and measuring their clearance. <i>Methods in Enzymology</i> , <b>2008</b> , 442, 307-41	1.7	92
64	Differential signaling to apoptotic and necrotic cell death by Fas-associated death domain protein FADD. <i>Journal of Biological Chemistry</i> , <b>2004</b> , 279, 7925-33	5.4	91
63	Necrosis is associated with IL-6 production but apoptosis is not. <i>Cellular Signalling</i> , <b>2006</b> , 18, 328-35	4.9	79
62	Effect of LPS, dsRNA or interferons on the phagocytosis of dying cells or mycobacteria by macrophages. <i>BMC Proceedings</i> , <b>2011</b> , 5,	2.3	78
61	An outline of necrosome triggers. <i>Cellular and Molecular Life Sciences</i> , <b>2016</b> , 73, 2137-52	10.3	73
60	NLRP3/caspase-1-independent IL-1beta production mediates diesel exhaust particle-induced pulmonary inflammation. <i>Journal of Immunology</i> , <b>2011</b> , 187, 3331-7	5.3	66
59	Treatment of PC-3 and DU145 prostate cancer cells by prenylflavonoids from hop ( <i>Humulus lupulus</i> L.) induces a caspase-independent form of cell death. <i>Phytotherapy Research</i> , <b>2008</b> , 22, 197-203	6.7	65
58	How do we fit ferroptosis in the family of regulated cell death?. <i>Cell Death and Differentiation</i> , <b>2017</b> , 24, 1991-1998	12.7	62
57	Ubiquitin-Mediated Regulation of RIPK1 Kinase Activity Independent of IKK and MK2. <i>Molecular Cell</i> , <b>2018</b> , 69, 566-580.e5	17.6	61
56	A phylogenetic and functional overview of inflammatory caspases and caspase-1-related CARD-only proteins. <i>Biochemical Society Transactions</i> , <b>2007</b> , 35, 1508-11	5.1	58
55	Proteome-wide substrate analysis indicates substrate exclusion as a mechanism to generate caspase-7 versus caspase-3 specificity. <i>Molecular and Cellular Proteomics</i> , <b>2009</b> , 8, 2700-14	7.6	57

54	Chemotherapy-induced ileal crypt apoptosis and the ileal microbiome shape immunosurveillance and prognosis of proximal colon cancer. <i>Nature Medicine</i> , <b>2020</b> , 26, 919-931	50.5	55
53	Novel Ferroptosis Inhibitors with Improved Potency and ADME Properties. <i>Journal of Medicinal Chemistry</i> , <b>2016</b> , 59, 2041-53	8.3	54
52	Caspases leave the beaten track: caspase-mediated activation of NF-kappaB. <i>Journal of Cell Biology</i> , <b>2006</b> , 173, 165-71	7.3	51
51	Withaferin A: From ayurvedic folk medicine to preclinical anti-cancer drug. <i>Biochemical Pharmacology</i> , <b>2020</b> , 173, 113602	6	42
50	Caspase substrates: easily caught in deep waters?. <i>Trends in Biotechnology</i> , <b>2009</b> , 27, 680-8	15.1	38
49	Fatal lymphocytic cardiac damage in coronavirus disease 2019 (COVID-19): autopsy reveals a ferroptosis signature. <i>ESC Heart Failure</i> , <b>2020</b> , 7, 3772	3.7	38
48	Intermediate domain of receptor-interacting protein kinase 1 (RIPK1) determines switch between necroptosis and RIPK1 kinase-dependent apoptosis. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 14863-72	5.4	34
47	Interaction patches of procaspase-1 caspase recruitment domains (CARDs) are differently involved in procaspase-1 activation and receptor-interacting protein 2 (RIP2)-dependent nuclear factor B signaling. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 35874-35882	5.4	34
46	NADPH oxidases: new players in TNF-induced necrotic cell death. <i>Molecular Cell</i> , <b>2007</b> , 26, 769-71	17.6	34
45	Discovery of Novel, Drug-Like Ferroptosis Inhibitors with in Vivo Efficacy. <i>Journal of Medicinal Chemistry</i> , <b>2018</b> , 61, 10126-10140	8.3	33
44	A real-time fluorometric method for the simultaneous detection of cell death type and rate. <i>Nature Protocols</i> , <b>2016</b> , 11, 1444-54	18.8	31
43	Inflammatory mediators in Escherichia coli-induced mastitis in mice. <i>Comparative Immunology, Microbiology and Infectious Diseases</i> , <b>2008</b> , 31, 551-65	2.6	31
42	Excessive phospholipid peroxidation distinguishes ferroptosis from other cell death modes including pyroptosis. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 922	9.8	30
41	Apoptosis of intestinal epithelial cells restricts Clostridium difficile infection in a model of pseudomembranous colitis. <i>Nature Communications</i> , <b>2018</b> , 9, 4846	17.4	30
40	Structure/Function analysis of p55 tumor necrosis factor receptor and fas-associated death domain. Effect on necrosis in L929sA cells. <i>Journal of Biological Chemistry</i> , <b>2000</b> , 275, 37596-603	5.4	29
39	Ionizing radiation results in a mixture of cellular outcomes including mitotic catastrophe, senescence, methuosis, and iron-dependent cell death. <i>Cell Death and Disease</i> , <b>2020</b> , 11, 1003	9.8	27
38	Fine-tuning nucleophosmin in macrophage differentiation and activation. <i>Blood</i> , <b>2011</b> , 118, 4694-704	2.2	25
37	Non-apoptotic functions of caspase-7 during osteogenesis. <i>Cell Death and Disease</i> , <b>2014</b> , 5, e1366	9.8	23

36	Necrotic cell death and Necrostatins: now we can control cellular explosion. <i>Trends in Biochemical Sciences</i> , <b>2008</b> , 33, 352-5	10.3	23
35	More than one way to die: methods to determine TNF-induced apoptosis and necrosis. <i>Methods in Molecular Medicine</i> , <b>2004</b> , 98, 101-26		22
34	The mitochondrial serine protease HtrA2/Omi cleaves RIP1 during apoptosis of Ba/F3 cells induced by growth factor withdrawal. <i>Cell Research</i> , <b>2010</b> , 20, 421-33	24.7	21
33	Caspase-7 participates in differentiation of cells forming dental hard tissues. <i>Development Growth and Differentiation</i> , <b>2013</b> , 55, 615-21	3	20
32	Non-classical proIL-1 $\beta$ activation during mammary gland infection is pathogen-dependent but caspase-1 independent. <i>PLoS ONE</i> , <b>2014</b> , 9, e105680	3.7	20
31	Inhibition of spontaneous neutrophil apoptosis by paratubopirin acts independently of NADPH oxidase inhibition but by lipid raft-dependent stimulation of Akt. <i>Journal of Leukocyte Biology</i> , <b>2009</b> , 85, 497-507	6.5	20
30	Preconditioning with Lipopolysaccharide or Lipoteichoic Acid Protects against Mammary Infection in Mice. <i>Frontiers in Immunology</i> , <b>2017</b> , 8, 833	8.4	19
29	Mitochondria and NADPH oxidases are the major sources of TNF- $\alpha$ -cycloheximide-induced oxidative stress in murine intestinal epithelial MODE-K cells. <i>Cellular Signalling</i> , <b>2015</b> , 27, 1141-58	4.9	18
28	Necroptosis Signaling Promotes Inflammation, Airway Remodeling, and Emphysema in Chronic Obstructive Pulmonary Disease. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> , 204, 667-681	10.2	15
27	Nanoscope X-ray fluorescence imaging and quantification of intracellular key-elements in cryofrozen Friedreich's ataxia fibroblasts. <i>PLoS ONE</i> , <b>2018</b> , 13, e0190495	3.7	14
26	An inactivating caspase-11 passenger mutation muddles sepsis research. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 188, 120-1	10.2	14
25	Caspase-3 probes for PET imaging of apoptotic tumor response to anticancer therapy. <i>Organic and Biomolecular Chemistry</i> , <b>2019</b> , 17, 4801-4824	3.9	13
24	Survival of Single Positive Thymocytes Depends upon Developmental Control of RIPK1 Kinase Signaling by the IKK Complex Independent of NF- $\kappa$ B. <i>Immunity</i> , <b>2019</b> , 50, 348-361.e4	32.3	13
23	Caspase-7 in molar tooth development. <i>Archives of Oral Biology</i> , <b>2012</b> , 57, 1474-81	2.8	13
22	Impact of caspase-1/11, -3, -7, or IL-1/IL-18 deficiency on rabies virus-induced macrophage cell death and onset of disease. <i>Cell Death Discovery</i> , <b>2017</b> , 3, 17012	6.9	11
21	Ferroptosis: Biological Rust of Lipid Membranes. <i>Antioxidants and Redox Signaling</i> , <b>2021</b> , 35, 487-509	8.4	10
20	Paving the way for precision medicine v2.0 in intensive care by profiling necroinflammation in biofluids. <i>Cell Death and Differentiation</i> , <b>2019</b> , 26, 83-98	12.7	7
19	Take my breath away: necrosis in kidney transplants kills the lungs!. <i>Kidney International</i> , <b>2015</b> , 87, 680-29.9		6

18	Expression of calcium-sensing receptor in quail granulosa explants: a key to survival during folliculogenesis. <i>Anatomical Record</i> , <b>2010</b> , 293, 890-9	2.1	6
17	Water-soluble withaferin A polymer prodrugs via a drug-functionalized RAFT CTA approach. <i>European Polymer Journal</i> , <b>2019</b> , 110, 313-318	5.2	6
16	Targeting ferroptosis protects against experimental (multi)organ dysfunction and death.. <i>Nature Communications</i> , <b>2022</b> , 13, 1046	17.4	6
15	Non-apoptotic role for caspase-7 in hair follicles and the surrounding tissue. <i>Journal of Molecular Histology</i> , <b>2015</b> , 46, 443-55	3.3	4
14	Feasibility study for clinical application of caspase-3 inhibitors in Pemphigus vulgaris. <i>Experimental Dermatology</i> , <b>2017</b> , 26, 1274-1277	4	4
13	Viral dosing of influenza A infection reveals involvement of RIPK3 and FADD, but not MLKL. <i>Cell Death and Disease</i> , <b>2021</b> , 12, 471	9.8	3
12	Emerging immune and cell death mechanisms in stroke: Saponins as therapeutic candidates. <i>Brain, Behavior, &amp; Immunity - Health</i> , <b>2020</b> , 9, 100152	5.1	2
11	Methods to Study and Distinguish Necroptosis <b>2014</b> , 335-361		2
10	Nanosopic X-ray imaging and quantification of the iron cellular architecture within single fibroblasts of Friedreich's ataxia patients. <i>Journal of Synchrotron Radiation</i> , <b>2020</b> , 27, 185-198	2.4	2
9	The Potential Role of Necroptosis in Diseases <b>2014</b> , 1-21		1
8	Necrosis: Molecular Mechanisms and Physiological Roles <b>2009</b> , 599-633		1
7	MLKL Reveals Its Friendly Face: A Role in Nerve Regeneration. <i>Molecular Cell</i> , <b>2018</b> , 72, 397-399	17.6	1
6	Luminescent Human iPSC-Derived Neurospheroids Enable Modeling of Neurotoxicity After Oxygen-glucose Deprivation.. <i>Neurotherapeutics</i> , <b>2022</b> , 1	6.4	1
5	Necroptosis: A Novel Way of Regulated Necrosis with Large Pathophysiological Implications <b>2014</b> , 153-161		
4	Caspase-3 and Caspase-7 <b>2013</b> , 2256-2265		
3	Necrotic cell death, a controlled way of cellular explosion <b>2008</b> , 189-190		
2	Fas-Induced Necrosis <b>2006</b> , 51-68		
1	Ferroptosis in Cancer Disease <b>2019</b> , 285-301		

