Tom Vanden Berghe

List of Publications by Year in Descending Order

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	Targeting ferroptosis protects against experimental (multi)organ dysfunction and death.. *Nature Communications*, **2022**, 13, 1046	17.4	6
106	Luminescent Human iPSC-Derived Neurospheroids Enable Modeling of Neurotoxicity After Oxygen-glucose Deprivation.. *Neurotherapeutics*, **2022**, 1	6.4	1
105	Ferroptosis: Biological Rust of Lipid Membranes. *Antioxidants and Redox Signaling*, **2021**, 35, 487-509	8.4	10
104	Viral dosing of influenza A infection reveals involvement of RIPK3 and FADD, but not MLKL. *Cell Death and Disease*, **2021**, 12, 471	9.8	3
103	Necroptosis Signaling Promotes Inflammation, Airway Remodeling, and Emphysema in Chronic Obstructive Pulmonary Disease. *American Journal of Respiratory and Critical Care Medicine*, **2021**, 204, 667-681	10.2	15
102	Emerging immune and cell death mechanisms in stroke: Saponins as therapeutic candidates. *Brain, Behavior, & Immunity - Health*, **2020**, 9, 100152	5.1	2
101	Chemotherapy-induced ileal crypt apoptosis and the ileal microbiome shape immunosurveillance and prognosis of proximal colon cancer. *Nature Medicine*, **2020**, 26, 919-931	50.5	55
100	Nanoscopic X-ray imaging and quantification of the iron cellular architecture within single fibroblasts of Friedreich's ataxia patients. *Journal of Synchrotron Radiation*, **2020**, 27, 185-198	2.4	2
99	Ionizing radiation results in a mixture of cellular outcomes including mitotic catastrophe, senescence, methuosis, and iron-dependent cell death. *Cell Death and Disease*, **2020**, 11, 1003	9.8	27
98	Excessive phospholipid peroxidation distinguishes ferroptosis from other cell death modes including pyroptosis. *Cell Death and Disease*, **2020**, 11, 922	9.8	30
97	Fatal lymphocytic cardiac damage in coronavirus disease 2019 (COVID-19): autopsy reveals a ferroptosis signature. *ESC Heart Failure*, **2020**, 7, 3772	3.7	38
96	Withaferin A: From ayurvedic folk medicine to preclinical anti-cancer drug. *Biochemical Pharmacology*, **2020**, 173, 113602	6	42
95	Targeting Ferroptosis to Iron Out Cancer. *Cancer Cell*, **2019**, 35, 830-849	24.3	569
94	Caspase-3 probes for PET imaging of apoptotic tumor response to anticancer therapy. *Organic and Biomolecular Chemistry*, **2019**, 17, 4801-4824	3.9	13
93	The molecular machinery of regulated cell death. *Cell Research*, **2019**, 29, 347-364	24.7	583
92	Survival of Single Positive Thymocytes Depends upon Developmental Control of RIPK1 Kinase Signaling by the IKK Complex Independent of NF-B. *Immunity*, **2019**, 50, 348-361.e4	32.3	13
91	Ferroptosis in Cancer Disease **2019**, 285-301		

90	Paving the way for precision medicine v2.0 in intensive care by profiling necroinflammation in biofluids. *Cell Death and Differentiation*, **2019**, 26, 83-98	12.7	7
89	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
88	Water-soluble withaferin A polymer prodrugs via a drug-functionalized RAFT CTA approach. *European Polymer Journal*, **2019**, 110, 313-318	5.2	6
87	Ubiquitin-Mediated Regulation of RIPK1 Kinase Activity Independent of IKK and MK2. *Molecular Cell*, **2018**, 69, 566-580.e5	17.6	61
86	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
85	Nanoscopic X-ray fluorescence imaging and quantification of intracellular key-elements in cryofrozen Friedreichß ataxia fibroblasts. *PLoS ONE*, **2018**, 13, e0190495	3.7	14
84	Apoptosis of intestinal epithelial cells restricts Clostridium difficile infection in a model of pseudomembranous colitis. *Nature Communications*, **2018**, 9, 4846	17.4	30
83	Discovery of Novel, Drug-Like Ferroptosis Inhibitors with in Vivo Efficacy. *Journal of Medicinal Chemistry*, **2018**, 61, 10126-10140	8.3	33
82	MLKL Reveals Its Friendly Face: A Role in Nerve Regeneration. *Molecular Cell*, **2018**, 72, 397-399	17.6	1
81	Nano-targeted induction of dual ferroptotic mechanisms eradicates high-risk neuroblastoma. *Journal of Clinical Investigation*, **2018**, 128, 3341-3355	15.9	215
80	Impact of caspase-1/11, -3, -7, or IL-1/IL-18 deficiency on rabies virus-induced macrophage cell death and onset of disease. *Cell Death Discovery*, **2017**, 3, 17012	6.9	11
79	Initiation and execution mechanisms of necroptosis: an overview. *Cell Death and Differentiation*, **2017**, 24, 1184-1195	12.7	235
78	Feasibility study for clinical application of caspase-3 inhibitors in Pemphigus vulgaris. *Experimental Dermatology*, **2017**, 26, 1274-1277	4	4
77	Preconditioning with Lipopolysaccharide or Lipoteichoic Acid Protects against Mammary Infection in Mice. *Frontiers in Immunology*, **2017**, 8, 833	8.4	19
76	How do we fit ferroptosis in the family of regulated cell death?. *Cell Death and Differentiation*, **2017** , 24, 1991-1998	12.7	62
75	A real-time fluorometric method for the simultaneous detection of cell death type and rate. *Nature Protocols*, **2016**, 11, 1444-54	18.8	31
74	Novel Ferroptosis Inhibitors with Improved Potency and ADME Properties. *Journal of Medicinal Chemistry*, **2016**, 59, 2041-53	8.3	54
73	An outline of necrosome triggers. *Cellular and Molecular Life Sciences*, **2016**, 73, 2137-52	10.3	73

72	Mitochondria and NADPH oxidases are the major sources of TNF-/cycloheximide-induced oxidative stress in murine intestinal epithelial MODE-K cells. *Cellular Signalling*, **2015**, 27, 1141-58	4.9	18
71	Passenger Mutations Confound Interpretation of All Genetically Modified Congenic Mice. *Immunity*, **2015**, 43, 200-9	32.3	128
70	Molecular crosstalk between apoptosis, necroptosis, and survival signaling. *Molecular and Cellular Oncology*, **2015**, 2, e975093	1.2	121
69	Non-apoptotic role for caspase-7 in hair follicles and the surrounding tissue. *Journal of Molecular Histology*, **2015**, 46, 443-55	3.3	4
68	Take my breath away: necrosis in kidney transplants kills the lungs!. *Kidney International*, **2015**, 87, 680-2	9.9	6
67	Essential versus accessory aspects of cell death: recommendations of the NCCD 2015. *Cell Death and Differentiation*, **2015**, 22, 58-73	12.7	643
66	Regulated necrosis: the expanding network of non-apoptotic cell death pathways. *Nature Reviews Molecular Cell Biology*, **2014**, 15, 135-47	48.7	1063
65	Depletion of RIPK3 or MLKL blocks TNF-driven necroptosis and switches towards a delayed RIPK1 kinase-dependent apoptosis. *Cell Death and Disease*, **2014**, 5, e1004	9.8	148
64	Synchronized renal tubular cell death involves ferroptosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 16836-41	11.5	519
63	Necroptosis, in vivo detection in experimental disease models. *Seminars in Cell and Developmental Biology*, **2014**, 35, 2-13	7.5	108
62	Simultaneous targeting of IL-1 and IL-18 is required for protection against inflammatory and septic shock. *American Journal of Respiratory and Critical Care Medicine*, **2014**, 189, 282-91	10.2	109
61	Non-classical proIL-1beta activation during mammary gland infection is pathogen-dependent but caspase-1 independent. *PLoS ONE*, **2014**, 9, e105680	3.7	20
60	Non-apoptotic functions of caspase-7 during osteogenesis. *Cell Death and Disease*, **2014**, 5, e1366	9.8	23
59	Necroptosis: A Novel Way of Regulated Necrosis with Large Pathophysiological Implications **2014**, 153-161		
58	The Potential Role of Necroptosis in Diseases **2014**, 1-21		1
57	Methods to Study and Distinguish Necroptosis **2014**, 335-361		2
56	An inactivating caspase-11 passenger mutation muddles sepsis research. *American Journal of Respiratory and Critical Care Medicine*, **2013**, 188, 120-1	10.2	14
55	Caspase-7 participates in differentiation of cells forming dental hard tissues. *Development Growth and Differentiation*, **2013**, 55, 615-21	3	20

54	Determination of apoptotic and necrotic cell death in vitro and in vivo. *Methods*, **2013**, 61, 117-29	4.6	163
53	Caspase-3 and Caspase-7 **2013**, 2256-2265		
52	Intermediate domain of receptor-interacting protein kinase 1 (RIPK1) determines switch between necroptosis and RIPK1 kinase-dependent apoptosis. *Journal of Biological Chemistry*, **2012**, 287, 14863-72	5.4	34
51	Autophagy: for better or for worse. *Cell Research*, **2012**, 22, 43-61	24.7	304
50	Caspase-7 in molar tooth development. *Archives of Oral Biology*, **2012**, 57, 1474-81	2.8	13
49	Beclin1: a role in membrane dynamics and beyond. *Autophagy*, **2012**, 8, 6-17	10.2	222
48	Many stimuli pull the necrotic trigger, an overview. *Cell Death and Differentiation*, **2012**, 19, 75-86	12.7	290
47	Programmed necrosis from molecules to health and disease. *International Review of Cell and Molecular Biology*, **2011**, 289, 1-35	6	125
46	Neutrophil extracellular trap cell death requires both autophagy and superoxide generation. *Cell Research*, **2011**, 21, 290-304	24.7	527
45	RIP kinase-dependent necrosis drives lethal systemic inflammatory response syndrome. *Immunity*, **2011**, 35, 908-18	32.3	388
44	Fine-tuning nucleophosmin in macrophage differentiation and activation. *Blood*, **2011**, 118, 4694-704	2.2	25
43	cIAP1 and TAK1 protect cells from TNF-induced necrosis by preventing RIP1/RIP3-dependent reactive oxygen species production. *Cell Death and Differentiation*, **2011**, 18, 656-65	12.7	251
42	Dying for a cause: NETosis, mechanisms behind an antimicrobial cell death modality. *Cell Death and Differentiation*, **2011**, 18, 581-8	12.7	386
41	The death-fold superfamily of homotypic interaction motifs. *Trends in Biochemical Sciences*, **2011**, 36, 541-52	10.3	112
40	Effect of LPS, dsRNA or interferons on the phagocytosis of dying cells or mycobacteria by macrophages. *BMC Proceedings*, **2011**, 5,	2.3	78
39	Role of IL-1□and the Nlrp3/caspase-1/IL-1□axis in cigarette smoke-induced pulmonary inflammation and COPD. *European Respiratory Journal*, **2011**, 38, 1019-28	13.6	168
38	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. *Journal of Biological Chemistry*, **2011**, 286, 35874-35882	5.4	34
37	NLRP3/caspase-1-independent IL-1beta production mediates diesel exhaust particle-induced pulmonary inflammation. *Journal of Immunology*, **2011**, 187, 3331-7	5.3	66

36	TNF-induced necroptosis in L929 cells is tightly regulated by multiple TNFR1 complex I and II members. *Cell Death and Disease*, **2011**, 2, e230	9.8	163
35	The mitochondrial serine protease HtrA2/Omi cleaves RIP1 during apoptosis of Ba/F3 cells induced by growth factor withdrawal. *Cell Research*, **2010**, 20, 421-33	24.7	21
34	Necroptosis, necrosis and secondary necrosis converge on similar cellular disintegration features. *Cell Death and Differentiation*, **2010**, 17, 922-30	12.7	382
33	Molecular mechanisms of necroptosis: an ordered cellular explosion. *Nature Reviews Molecular Cell Biology*, **2010**, 11, 700-14	48.7	1603
32	The role of the kinases RIP1 and RIP3 in TNF-induced necrosis. *Science Signaling*, **2010**, 3, re4	8.8	348
31	Caspase-mediated cleavage of Beclin-1 inactivates Beclin-1-induced autophagy and enhances apoptosis by promoting the release of proapoptotic factors from mitochondria. *Cell Death and Disease*, **2010**, 1, e18	9.8	464
30	Expression of calcium-sensing receptor in quail granulosa explants: a key to survival during folliculogenesis. *Anatomical Record*, **2010**, 293, 890-9	2.1	6
29	Inhibition of spontaneous neutrophil apoptosis by parabutoporin acts independently of NADPH oxidase inhibition but by lipid raft-dependent stimulation of Akt. *Journal of Leukocyte Biology*, **2009** , 85, 497-507	6.5	20
28	Proteome-wide substrate analysis indicates substrate exclusion as a mechanism to generate caspase-7 versus caspase-3 specificity. *Molecular and Cellular Proteomics*, **2009**, 8, 2700-14	7.6	57
27	Caspase substrates: easily caught in deep waters?. *Trends in Biotechnology*, **2009**, 27, 680-8	15.1	38
26	Major cell death pathways at a glance. *Microbes and Infection*, **2009**, 11, 1050-62	9.3	258
25	RIP kinases at the crossroads of cell death and survival. *Cell*, **2009**, 138, 229-32	56.2	374
24	Necrosis: Molecular Mechanisms and Physiological Roles **2009**, 599-633		1
23	Inflammatory mediators in Escherichia coli-induced mastitis in mice. *Comparative Immunology, Microbiology and Infectious Diseases*, **2008**, 31, 551-65	2.6	31
22	Necrotic cell death and 'necrostatins' now we can control cellular explosion. *Trends in Biochemical Sciences*, **2008**, 33, 352-5	10.3	23
21	Apoptosis and necrosis: detection, discrimination and phagocytosis. *Methods*, **2008**, 44, 205-21	4.6	465
20	Necrotic cell death, a controlled way of cellular explosion **2008**, 189-190		
19	Methods for distinguishing apoptotic from necrotic cells and measuring their clearance. *Methods in Enzymology*, **2008**, 442, 307-41	1.7	92

18	Molecular mechanisms and pathophysiology of necrotic cell death. *Current Molecular Medicine*, **2008**, 8, 207-20	2.5	255
17	Targeted peptidecentric proteomics reveals caspase-7 as a substrate of the caspase-1 inflammasomes. *Molecular and Cellular Proteomics*, **2008**, 7, 2350-63	7.6	221
16	Treatment of PC-3 and DU145 prostate cancer cells by prenylflavonoids from hop (Humulus lupulus L.) induces a caspase-independent form of cell death. *Phytotherapy Research*, **2008**, 22, 197-203	6.7	65
15	Caspases in cell survival, proliferation and differentiation. *Cell Death and Differentiation*, **2007**, 14, 44-55	12.7	442
14	RIP1, a kinase on the crossroads of a cellTs decision to live or die. *Cell Death and Differentiation*, **2007**, 14, 400-10	12.7	359
13	A phylogenetic and functional overview of inflammatory caspases and caspase-1-related CARD-only proteins. *Biochemical Society Transactions*, **2007**, 35, 1508-11	5.1	58
12	NADPH oxidases: new players in TNF-induced necrotic cell death. *Molecular Cell*, **2007**, 26, 769-71	17.6	34
11	Necrosis is associated with IL-6 production but apoptosis is not. *Cellular Signalling*, **2006**, 18, 328-35	4.9	79
10	Caspases leave the beaten track: caspase-mediated activation of NF-kappaB. *Journal of Cell Biology*, **2006**, 173, 165-71	7.3	51
9	Caspase inhibitors promote alternative cell death pathways. *SciencensSTKE: Signal Transduction Knowledge Environment*, **2006**, 2006, pe44		161
8	Necrosis, a well-orchestrated form of cell demise: signalling cascades, important mediators and concomitant immune response. *Biochimica Et Biophysica Acta - Bioenergetics*, **2006**, 1757, 1371-87	4.6	464
7	Fas-Induced Necrosis **2006**, 51-68		
6	More than one way to die: methods to determine TNF-induced apoptosis and necrosis. *Methods in Molecular Medicine*, **2004**, 98, 101-26		22
5	Differential signaling to apoptotic and necrotic cell death by Fas-associated death domain protein FADD. *Journal of Biological Chemistry*, **2004**, 279, 7925-33	5.4	91
4	Disruption of HSP90 function reverts tumor necrosis factor-induced necrosis to apoptosis. *Journal of Biological Chemistry*, **2003**, 278, 5622-9	5.4	127
3	Tipping the balance between necrosis and apoptosis in human and murine cells treated with interferon and dsRNA. *Cell Death and Differentiation*, **2002**, 9, 981-94	12.7	117
2	Death receptor-induced apoptotic and necrotic cell death: differential role of caspases and mitochondria. *Cell Death and Differentiation*, **2001**, 8, 829-40	12.7	180
1	Structure/Function analysis of p55 tumor necrosis factor receptor and fas-associated death domain. Effect on necrosis in L929sA cells. *Journal of Biological Chemistry*, **2000**, 275, 37596-603	5.4	29