

Geert van Loo

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121
papers

14,336
citations

55
h-index

119
g-index

132
ext. papers

16,687
ext. citations

13.5
avg, IF

6.36
L-index

#	Paper	IF	Citations
121	Identification of oxidative stress and Toll-like receptor 4 signaling as a key pathway of acute lung injury. <i>Cell</i> , 2008 , 133, 235-49	56.2	965
120	Epithelial NEMO links innate immunity to chronic intestinal inflammation. <i>Nature</i> , 2007 , 446, 557-61	50.4	842
119	Inhibition of caspases increases the sensitivity of L929 cells to necrosis mediated by tumor necrosis factor. <i>Journal of Experimental Medicine</i> , 1998 , 187, 1477-85	16.6	746
118	Toxic proteins released from mitochondria in cell death. <i>Oncogene</i> , 2004 , 23, 2861-74	9.2	700
117	Deletion of NEMO/IKKgamma in liver parenchymal cells causes steatohepatitis and hepatocellular carcinoma. <i>Cancer Cell</i> , 2007 , 11, 119-32	24.3	505
116	The role of mitochondrial factors in apoptosis: a Russian roulette with more than one bullet. <i>Cell Death and Differentiation</i> , 2002 , 9, 1031-42	12.7	498
115	FADD prevents RIP3-mediated epithelial cell necrosis and chronic intestinal inflammation. <i>Nature</i> , 2011 , 477, 330-4	50.4	448
114	Spatial and temporal heterogeneity of mouse and human microglia at single-cell resolution. <i>Nature</i> , 2019 , 566, 388-392	50.4	442
113	Farm dust and endotoxin protect against allergy through A20 induction in lung epithelial cells. <i>Science</i> , 2015 , 349, 1106-10	33.3	374
112	Identification of a new caspase homologue: caspase-14. <i>Cell Death and Differentiation</i> , 1998 , 5, 838-46	12.7	369
111	The ubiquitin-editing enzyme A20 (TNFAIP3) is a central regulator of immunopathology. <i>Trends in Immunology</i> , 2009 , 30, 383-91	14.4	365
110	Mitochondrial intermembrane proteins in cell death. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 304, 487-97	3.4	319
109	Negative regulation of the NLRP3 inflammasome by A20 protects against arthritis. <i>Nature</i> , 2014 , 512, 69-73	50.4	317
108	CCR2 recruits an inflammatory macrophage subpopulation critical for angiogenesis in tissue repair. <i>Blood</i> , 2012 , 120, 613-25	2.2	306
107	A20 in inflammation and autoimmunity. <i>Trends in Immunology</i> , 2014 , 35, 22-31	14.4	296
106	The serine protease Omi/HtrA2 is released from mitochondria during apoptosis. Omi interacts with caspase-inhibitor XIAP and induces enhanced caspase activity. <i>Cell Death and Differentiation</i> , 2002 , 9, 20-6	12.7	270
105	Endonuclease G: a mitochondrial protein released in apoptosis and involved in caspase-independent DNA degradation. <i>Cell Death and Differentiation</i> , 2001 , 8, 1136-42	12.7	260

104	Inflammasomes in neuroinflammatory and neurodegenerative diseases. <i>EMBO Molecular Medicine</i> , 2019 , 11,	12	230
103	Enterocyte-specific A20 deficiency sensitizes to tumor necrosis factor-induced toxicity and experimental colitis. <i>Journal of Experimental Medicine</i> , 2010 , 207, 1513-23	16.6	228
102	The adaptor protein FADD protects epidermal keratinocytes from necroptosis in vivo and prevents skin inflammation. <i>Immunity</i> , 2011 , 35, 572-82	32.3	227
101	RIPK1 ensures intestinal homeostasis by protecting the epithelium against apoptosis. <i>Nature</i> , 2014 , 513, 95-9	50.4	224
100	A20 (TNFAIP3) deficiency in myeloid cells triggers erosive polyarthritis resembling rheumatoid arthritis. <i>Nature Genetics</i> , 2011 , 43, 908-12	36.3	216
99	Endothelial CCR2 signaling induced by colon carcinoma cells enables extravasation via the JAK2-Stat5 and p38MAPK pathway. <i>Cancer Cell</i> , 2012 , 22, 91-105	24.3	213
98	The ubiquitin-editing protein A20 prevents dendritic cell activation, recognition of apoptotic cells, and systemic autoimmunity. <i>Immunity</i> , 2011 , 35, 82-96	32.3	197
97	Hepatic tumor necrosis factor signaling and nuclear factor-kappaB: effects on liver homeostasis and beyond. <i>Endocrine Reviews</i> , 2007 , 28, 365-86	27.2	186
96	Death receptor-induced apoptotic and necrotic cell death: differential role of caspases and mitochondria. <i>Cell Death and Differentiation</i> , 2001 , 8, 829-40	12.7	180
95	MicroRNA let-7 modulates the immune response to Mycobacterium tuberculosis infection via control of A20, an inhibitor of the NF- κ B pathway. <i>Cell Host and Microbe</i> , 2015 , 17, 345-356	23.4	170
94	Inhibition of transcription factor NF-kappaB in the central nervous system ameliorates autoimmune encephalomyelitis in mice. <i>Nature Immunology</i> , 2006 , 7, 954-61	19.1	167
93	Characterization of seven murine caspase family members. <i>FEBS Letters</i> , 1997 , 403, 61-9	3.8	164
92	Inflammation and the Metabolic Syndrome: The Tissue-Specific Functions of NF- κ B. <i>Trends in Cell Biology</i> , 2017 , 27, 417-429	18.3	152
91	Attenuation of cGAS-STING signaling is mediated by a p62/SQSTM1-dependent autophagy pathway activated by TBK1. <i>EMBO Journal</i> , 2018 , 37,	13	152
90	Microglia in Central Nervous System Inflammation and Multiple Sclerosis Pathology. <i>Trends in Molecular Medicine</i> , 2019 , 25, 112-123	11.5	149
89	B cells lacking the tumor suppressor TNFAIP3/A20 display impaired differentiation and hyperactivation and cause inflammation and autoimmunity in aged mice. <i>Blood</i> , 2011 , 117, 2227-36	2.2	146
88	Expression, biological activities and mechanisms of action of A20 (TNFAIP3). <i>Biochemical Pharmacology</i> , 2010 , 80, 2009-20	6	138
87	Cathepsin B-mediated activation of the proinflammatory caspase-11. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 251, 379-87	3.4	128

86	Disruption of HSP90 function reverts tumor necrosis factor-induced necrosis to apoptosis. <i>Journal of Biological Chemistry</i> , 2003 , 278, 5622-9	5.4	127
85	Tipping the balance between necrosis and apoptosis in human and murine cells treated with interferon and dsRNA. <i>Cell Death and Differentiation</i> , 2002 , 9, 981-94	12.7	117
84	Nuclear factor kappa B (NF- κ B) in multiple sclerosis pathology. <i>Trends in Molecular Medicine</i> , 2013 , 19, 604-13	11.5	94
83	A20 critically controls microglia activation and inhibits inflammasome-dependent neuroinflammation. <i>Nature Communications</i> , 2018 , 9, 2036	17.4	92
82	Enterocyte death and intestinal barrier maintenance in homeostasis and disease. <i>Trends in Molecular Medicine</i> , 2011 , 17, 584-93	11.5	91
81	Differential signaling to apoptotic and necrotic cell death by Fas-associated death domain protein FADD. <i>Journal of Biological Chemistry</i> , 2004 , 279, 7925-33	5.4	91
80	Bcl-2 family members as sentinels of cellular integrity and role of mitochondrial intermembrane space proteins in apoptotic cell death. <i>Acta Haematologica</i> , 2004 , 111, 7-27	2.7	87
79	I κ B kinase 2 determines oligodendrocyte loss by non-cell-autonomous activation of NF- κ B in the central nervous system. <i>Brain</i> , 2011 , 134, 1184-98	11.2	82
78	Genetic relationships between A20/TNFAIP3, chronic inflammation and autoimmune disease. <i>Biochemical Society Transactions</i> , 2011 , 39, 1086-91	5.1	79
77	A20 controls intestinal homeostasis through cell-specific activities. <i>Nature Communications</i> , 2014 , 5, 5103	7.4	78
76	A matrix-assisted laser desorption ionization post-source decay (MALDI-PSD) analysis of proteins released from isolated liver mitochondria treated with recombinant truncated Bid. <i>Cell Death and Differentiation</i> , 2002 , 9, 301-8	12.7	76
75	Phosphatidyl serine exposure during apoptosis precedes release of cytochrome c and decrease in mitochondrial transmembrane potential. <i>FEBS Letters</i> , 2000 , 465, 47-52	3.8	76
74	A20 promotes metastasis of aggressive basal-like breast cancers through multi-monoubiquitylation of Snail1. <i>Nature Cell Biology</i> , 2017 , 19, 1260-1273	23.4	72
73	A20 prevents inflammasome-dependent arthritis by inhibiting macrophage necroptosis through its ZnF7 ubiquitin-binding domain. <i>Nature Cell Biology</i> , 2019 , 21, 731-742	23.4	67
72	A Novel TRAF6 binding site in MALT1 defines distinct mechanisms of NF- κ B activation by API2middle dotMALT1 fusions. <i>Journal of Biological Chemistry</i> , 2007 , 282, 10180-9	5.4	66
71	Development of immunoglobulin lambda-chain-positive B cells, but not editing of immunoglobulin kappa-chain, depends on NF- κ B signals. <i>Nature Immunology</i> , 2009 , 10, 647-54	19.1	63
70	A20 (Tnfaip3) deficiency in myeloid cells protects against influenza A virus infection. <i>PLoS Pathogens</i> , 2012 , 8, e1002570	7.6	60
69	Caspases are not localized in mitochondria during life or death. <i>Cell Death and Differentiation</i> , 2002 , 9, 1207-11	12.7	58

68	The tumor necrosis factor alpha-induced protein 3 (TNFAIP3, A20) imposes a brake on antitumor activity of CD8 T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 11115-20	11.5	57
67	Pharmacological inhibition of MALT1 protease activity protects mice in a mouse model of multiple sclerosis. <i>Journal of Neuroinflammation</i> , 2014 , 11, 124	10.1	55
66	A20-deficient mast cells exacerbate inflammatory responses in vivo. <i>PLoS Biology</i> , 2014 , 12, e1001762	9.7	54
65	Paracaspase MALT1 deficiency protects mice from autoimmune-mediated demyelination. <i>Journal of Immunology</i> , 2013 , 190, 2896-903	5.3	53
64	Cellular Functions of Optineurin in Health and Disease. <i>Trends in Immunology</i> , 2016 , 37, 621-633	14.4	53
63	Antiinflammatory properties of a plant-derived nonsteroidal, dissociated glucocorticoid receptor modulator in experimental autoimmune encephalomyelitis. <i>Molecular Endocrinology</i> , 2010 , 24, 310-22		52
62	Negative regulation of NF- κ B and its involvement in rheumatoid arthritis. <i>Arthritis Research and Therapy</i> , 2011 , 13, 221	5.7	52
61	TLR-independent anti-inflammatory function of intestinal epithelial TRAF6 signalling prevents DSS-induced colitis in mice. <i>Gut</i> , 2016 , 65, 935-43	19.2	50
60	A20 inhibition of STAT1 expression in myeloid cells: a novel endogenous regulatory mechanism preventing development of enthesitis. <i>Annals of the Rheumatic Diseases</i> , 2017 , 76, 585-592	2.4	48
59	Adipose tissue macrophages and their polarization in health and obesity. <i>Cellular Immunology</i> , 2018 , 330, 114-119	4.4	48
58	Optineurin deficiency in mice is associated with increased sensitivity to Salmonella but does not affect proinflammatory NF- κ B signaling. <i>European Journal of Immunology</i> , 2016 , 46, 971-80	6.1	47
57	Nlrp3 inflammasome activation and Gasdermin D-driven pyroptosis are immunopathogenic upon gastrointestinal norovirus infection. <i>PLoS Pathogens</i> , 2019 , 15, e1007709	7.6	46
56	Oligodendrocyte-specific FADD deletion protects mice from autoimmune-mediated demyelination. <i>Journal of Immunology</i> , 2010 , 185, 7646-53	5.3	46
55	Induction of apoptosis by TNF receptor 2 in a T-cell hybridoma is FADD dependent and blocked by caspase-8 inhibitors. <i>Journal of Cell Science</i> , 2005 , 118, 497-504	5.3	45
54	Death receptor signalling in central nervous system inflammation and demyelination. <i>Trends in Neurosciences</i> , 2011 , 34, 619-28	13.3	42
53	Signaling to gene activation and cell death by tumor necrosis factor receptors and Fas. <i>International Review of Cytology</i> , 2002 , 214, 225-72		38
52	A20 Deficiency in Lung Epithelial Cells Protects against Influenza A Virus Infection. <i>PLoS Pathogens</i> , 2016 , 12, e1005410	7.6	38
51	Conditional targeting of tumor necrosis factor receptor-associated factor 6 reveals opposing functions of Toll-like receptor signaling in endothelial and myeloid cells in a mouse model of atherosclerosis. <i>Circulation</i> , 2012 , 126, 1739-51	16.7	37

50	Molecular cloning and identification of murine caspase-8. <i>Journal of Molecular Biology</i> , 1998 , 284, 1017-265	26.5	33
49	A20 at the Crossroads of Cell Death, Inflammation, and Autoimmunity. <i>Cold Spring Harbor Perspectives in Biology</i> , 2020 , 12,	10.2	33
48	Lithium sensitizes tumor cells in an NF-kappa B-independent way to caspase activation and apoptosis induced by tumor necrosis factor (TNF). Evidence for a role of the TNF receptor-associated death domain protein. <i>Journal of Biological Chemistry</i> , 2001 , 276, 25939-45	5.4	32
47	A20 protects cells from TNF-induced apoptosis through linear ubiquitin-dependent and -independent mechanisms. <i>Cell Death and Disease</i> , 2019 , 10, 692	9.8	31
46	TNF-Induced protein 3 levels in lung dendritic cells instruct T2 or T17 cell differentiation in eosinophilic or neutrophilic asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 1620-1633.e12	11.5	30
45	A20 and Cell Death-driven Inflammation. <i>Trends in Immunology</i> , 2020 , 41, 421-435	14.4	29
44	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> , 2000 , 275, 37596-603	5.4	29
43	Two distinct ubiquitin-binding motifs in A20 mediate its anti-inflammatory and cell-protective activities. <i>Nature Immunology</i> , 2020 , 21, 381-387	19.1	28
42	BACE2 distribution in major brain cell types and identification of novel substrates. <i>Life Science Alliance</i> , 2018 , 1, e201800026	5.8	27
41	Physical and functional interaction between A20 and ATG16L1-WD40 domain in the control of intestinal homeostasis. <i>Nature Communications</i> , 2019 , 10, 1834	17.4	26
40	NKT sublineage specification and survival requires the ubiquitin-modifying enzyme TNFAIP3/A20. <i>Journal of Experimental Medicine</i> , 2016 , 213, 1973-81	16.6	25
39	A20 Inhibits BCell Apoptosis by Multiple Mechanisms and Predicts Residual BCell Function in Type 1 Diabetes. <i>Molecular Endocrinology</i> , 2016 , 30, 48-61		25
38	Keratinocyte Expression of A20/TNFAIP3 Controls Skin Inflammation Associated with Atopic Dermatitis and Psoriasis. <i>Journal of Investigative Dermatology</i> , 2019 , 139, 135-145	4.3	25
37	A20 Restrains Thymic Regulatory T Cell Development. <i>Journal of Immunology</i> , 2017 , 199, 2356-2365	5.3	22
36	A20 and CYLD do not share significant overlapping functions during B cell development and activation. <i>Journal of Immunology</i> , 2012 , 189, 4437-43	5.3	21
35	Apoptosis of hematopoietic cells induced by growth factor withdrawal is associated with caspase-9 mediated cleavage of Raf-1. <i>Oncogene</i> , 2005 , 24, 1552-62	9.2	20
34	Regulation of macrophage motility by the water channel aquaporin-1: crucial role of M0/M2 phenotype switch. <i>PLoS ONE</i> , 2015 , 10, e0117398	3.7	19
33	OTULIN Prevents Liver Inflammation and Hepatocellular Carcinoma by Inhibiting FADD- and RIPK1 Kinase-Mediated Hepatocyte Apoptosis. <i>Cell Reports</i> , 2020 , 30, 2237-2247.e6	10.6	17

32	The Prosurvival IKK-Related Kinase IKK β Integrates LPS and IL17A Signaling Cascades to Promote Wnt-Dependent Tumor Development in the Intestine. <i>Cancer Research</i> , 2016 , 76, 2587-99	10.1	16
31	Epithelial HMGB1 Delays Skin Wound Healing and Drives Tumor Initiation by Priming Neutrophils for NET Formation. <i>Cell Reports</i> , 2019 , 29, 2689-2701.e4	10.6	16
30	Zeb2 drives invasive and microbiota-dependent colon carcinoma.. <i>Nature Cancer</i> , 2020 , 1, 620-634	15.4	14
29	Identification of Immune-Responsive Gene 1 (IRG1) as a Target of A20. <i>Journal of Proteome Research</i> , 2018 , 17, 2182-2191	5.6	13
28	Absence of system x on immune cells invading the central nervous system alleviates experimental autoimmune encephalitis. <i>Journal of Neuroinflammation</i> , 2017 , 14, 9	10.1	13
27	ineurin Functions for mal Immunity. <i>Frontiers in Immunology</i> , 2018 , 9, 769	8.4	12
26	The ubiquitin-editing enzyme A20 controls NK cell homeostasis through regulation of mTOR activity and TNF. <i>Journal of Experimental Medicine</i> , 2019 , 216, 2010-2023	16.6	11
25	A20: attractive without showing cleavage. <i>EMBO Reports</i> , 2014 , 15, 734-5	6.5	11
24	Leptin β metabolic and immune functions can be uncoupled at the ligand/receptor interaction level. <i>Cellular and Molecular Life Sciences</i> , 2015 , 72, 629-644	10.3	11
23	IL1 β Promotes Immune Suppression in the Tumor Microenvironment Independent of the Inflammasome and Gasdermin D. <i>Cancer Immunology Research</i> , 2021 , 9, 309-323	12.5	10
22	OTULIN in NF- κ B signaling, cell death, and disease. <i>Trends in Immunology</i> , 2021 , 42, 590-603	14.4	10
21	DNGR1-mediated deletion of A20/Tnfaip3 in dendritic cells alters T and B-cell homeostasis and promotes autoimmune liver pathology. <i>Journal of Autoimmunity</i> , 2019 , 102, 167-178	15.5	9
20	The anti-inflammatory protein TNFAIP3/A20 binds the WD40 domain of ATG16L1 to control the autophagic response, NFKB/NF- κ B activation and intestinal homeostasis. <i>Autophagy</i> , 2019 , 15, 1657-1659	10.2	8
19	A Bcl-2 transgene expressed in hepatocytes does not protect mice from fulminant liver destruction induced by Fas ligand. <i>Cytokine</i> , 2003 , 22, 62-70	4	8
18	Microbes exploit death-induced nutrient release by gut epithelial cells. <i>Nature</i> , 2021 , 596, 262-267	50.4	7
17	A20 deletion in T β cells modulates acute graft-versus-host disease in mice. <i>European Journal of Immunology</i> , 2017 , 47, 1982-1988	6.1	6
16	The hepatocyte IKK:NF- κ B axis promotes liver steatosis by stimulating de novo lipogenesis and cholesterol synthesis. <i>Molecular Metabolism</i> , 2021 , 54, 101349	8.8	6
15	OTULIN maintains skin homeostasis by controlling keratinocyte death and stem cell identity. <i>Nature Communications</i> , 2021 , 12, 5913	17.4	6

14	El Tor Biotype Activates the Caspase-11-Independent Canonical Nlrp3 and Pypin Inflammasomes. <i>Frontiers in Immunology</i> , 2019 , 10, 2463	8.4	6
13	House dust mite-driven neutrophilic airway inflammation in mice with TNFAIP3-deficient myeloid cells is IL-17-independent. <i>Clinical and Experimental Allergy</i> , 2018 , 48, 1705-1714	4.1	4
12	Tnfaip3 expression in pulmonary conventional type 1 Langerin-expressing dendritic cells regulates T helper 2-mediated airway inflammation in mice. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020 , 75, 2587-2598	9.3	3
11	DNGR1-Cre-mediated Deletion of A20 in Conventional Dendritic Cells Induces Pulmonary Hypertension in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020 , 63, 665-680	5.7	3
10	Central Role of Dendritic Cells in Pulmonary Arterial Hypertension in Human and Mice. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3	3
9	Fibrotic enzymes modulate wound-induced skin tumorigenesis. <i>EMBO Reports</i> , 2021 , 22, e51573	6.5	2
8	Nucleic Acid Induced Interferon and Inflammasome Responses in Regulating Host Defense to Gastrointestinal Viruses. <i>International Review of Cell and Molecular Biology</i> , 2019 , 345, 137-171	6	2
7	Ileal immune tonus is a prognosis marker of proximal colon cancer in mice and patients. <i>Cell Death and Differentiation</i> , 2021 , 28, 1532-1547	12.7	2
6	A20 phosphorylation controls A20 function. <i>Nature Immunology</i> , 2019 , 20, 1261-1262	19.1	1
5	A20 deficiency in myeloid cells protects mice from diet-induced obesity and insulin resistance due to increased fatty acid metabolism. <i>Cell Reports</i> , 2021 , 36, 109748	10.6	1
4	ZBTB32 performs crosstalk with the glucocorticoid receptor and is crucial in glucocorticoid responses to starvation. <i>IScience</i> , 2021 , 24, 102790	6.1	0
3	Nlrp3 inflammasome activation in macrophages suffices for inducing autoinflammation in mice.. <i>EMBO Reports</i> , 2022 , e54339	6.5	0
2	NF- κ B-inducing kinase (NIK) is activated in pancreatic β cells but does not contribute to the development of diabetes.. <i>Cell Death and Disease</i> , 2022 , 13, 476	9.8	0
1	Enterocyte-specific A20 deficiency sensitizes to tumor necrosis factor-induced toxicity and experimental colitis. <i>Journal of Cell Biology</i> , 2010 , 189, i15-i15	7.3	