

Hiroyasu Nakano

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116
papers

16,927
citations

54
h-index

122
g-index

122
ext. papers

18,529
ext. citations

8.2
avg, IF

5.51
L-index

#	Paper	IF	Citations
116	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
115	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546.2	10.2	2783
114	ASK1 is essential for JNK/SAPK activation by TRAF2. <i>Molecular Cell</i> , 1998 , 2, 389-95	17.6	577
113	Differential regulation of I κ B kinase alpha and beta by two upstream kinases, NF- κ B-inducing kinase and mitogen-activated protein kinase/ERK kinase kinase-1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 3537-42	11.5	483
112	SHARPIN is a component of the NF- κ B-activating linear ubiquitin chain assembly complex. <i>Nature</i> , 2011 , 471, 633-6	50.4	458
111	NF- κ B inhibits TNF-induced accumulation of ROS that mediate prolonged MAPK activation and necrotic cell death. <i>EMBO Journal</i> , 2003 , 22, 3898-909	13	424
110	A critical role of RICK/RIP2 polyubiquitination in Nod-induced NF- κ B activation. <i>EMBO Journal</i> , 2008 , 27, 373-83	13	386
109	NF- κ B RelA phosphorylation regulates RelA acetylation. <i>Molecular and Cellular Biology</i> , 2005 , 25, 7966-75	4.8	359
108	Tumor necrosis factor alpha (TNF α) induces the unfolded protein response (UPR) in a reactive oxygen species (ROS)-dependent fashion, and the UPR counteracts ROS accumulation by TNF α . <i>Journal of Biological Chemistry</i> , 2005 , 280, 33917-25	5.4	310
107	Osteoclast differentiation independent of the TRANCE-RANK-TRAF6 axis. <i>Journal of Experimental Medicine</i> , 2005 , 202, 589-95	16.6	297
106	Reactive oxygen species mediate crosstalk between NF- κ B and JNK. <i>Cell Death and Differentiation</i> , 2006 , 13, 730-7	12.7	294
105	Tumor necrosis factor-alpha-induced IKK phosphorylation of NF- κ B p65 on serine 536 is mediated through the TRAF2, TRAF5, and TAK1 signaling pathway. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36916-23	5.4	279
104	TRAF5, an activator of NF- κ B and putative signal transducer for the lymphotoxin-beta receptor. <i>Journal of Biological Chemistry</i> , 1996 , 271, 14661-4	5.4	272
103	Critical roles of TRAF2 and TRAF5 in tumor necrosis factor-induced NF- κ B activation and protection from cell death. <i>Journal of Biological Chemistry</i> , 2001 , 276, 36530-4	5.4	250
102	TWEAK induces NF- κ B p100 processing and long lasting NF- κ B activation. <i>Journal of Biological Chemistry</i> , 2003 , 278, 36005-12	5.4	235
101	Molecular basis for hematopoietic/mesenchymal interaction during initiation of Peyer's patch organogenesis. <i>Journal of Experimental Medicine</i> , 2001 , 193, 621-30	16.6	205
100	Role of adapter function in oncoprotein-mediated activation of NF- κ B. Human T-cell leukemia virus type I Tax interacts directly with I κ B kinase gamma. <i>Journal of Biological Chemistry</i> , 1999 , 274, 17402-5	5.4	188

99	Transient and selective NF-kappa B p65 serine 536 phosphorylation induced by T cell costimulation is mediated by I kappa B kinase beta and controls the kinetics of p65 nuclear import. <i>Journal of Immunology</i> , 2004 , 172, 6336-44	5.3	186
98	CD27, a member of the tumor necrosis factor receptor superfamily, activates NF-kappaB and stress-activated protein kinase/c-Jun N-terminal kinase via TRAF2, TRAF5, and NF-kappaB-inducing kinase. <i>Journal of Biological Chemistry</i> , 1998 , 273, 13353-8	5.4	186
97	Essential role of nuclear factor (NF)-kappaB-inducing kinase and inhibitor of kappaB (IkappaB) kinase alpha in NF-kappaB activation through lymphotoxin beta receptor, but not through tumor necrosis factor receptor I. <i>Journal of Experimental Medicine</i> , 2001 , 193, 631-6	16.6	183
96	Ubiquitin-dependent degradation of IkappaBalpha is mediated by a ubiquitin ligase Skp1/Cul1/F-box protein FWD1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 3859-63	11.5	179
95	Recruitment of tumor necrosis factor receptor-associated factor family proteins to apoptosis signal-regulating kinase 1 signalosome is essential for oxidative stress-induced cell death. <i>Journal of Biological Chemistry</i> , 2005 , 280, 37033-40	5.4	173
94	Targeted disruption of Traf5 gene causes defects in CD40- and CD27-mediated lymphocyte activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 9803-8	11.5	172
93	Tumor necrosis factor receptor-associated factor (TRAF) 5 and TRAF2 are involved in CD30-mediated NFkappaB activation. <i>Journal of Biological Chemistry</i> , 1997 , 272, 2042-5	5.4	167
92	Pro-inflammatory effect of TWEAK/Fn14 interaction on human umbilical vein endothelial cells. <i>Biochemical and Biophysical Research Communications</i> , 2002 , 299, 488-93	3.4	152
91	Cell contact-dependent regulation of epithelial-myofibroblast transition via the rho-rho kinase-phospho-myosin pathway. <i>Molecular Biology of the Cell</i> , 2007 , 18, 1083-97	3.5	150
90	Multiple pathways of TWEAK-induced cell death. <i>Journal of Immunology</i> , 2002 , 168, 734-43	5.3	147
89	Phosphorylation of serine 276 is essential for p65 NF-kappaB subunit-dependent cellular responses. <i>Biochemical and Biophysical Research Communications</i> , 2003 , 300, 807-12	3.4	136
88	TRAF family proteins link PKR with NF-kappa B activation. <i>Molecular and Cellular Biology</i> , 2004 , 24, 4502-13	4.3	121
87	The death domain kinase RIP has an essential role in DNA damage-induced NF-kappa B activation. <i>Genes and Development</i> , 2003 , 17, 873-82	12.6	114
86	Tumor necrosis factor receptor-associated factor 6 (TRAF6) stimulates extracellular signal-regulated kinase (ERK) activity in CD40 signaling along a ras-independent pathway. <i>Journal of Experimental Medicine</i> , 1998 , 187, 237-44	16.6	110
85	Epstein-Barr virus latent membrane protein 1 activation of NF-kappaB through IRAK1 and TRAF6. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100, 15595-600	11.5	108
84	Specific interaction of topoisomerase II beta and the CD3 epsilon chain of the T cell receptor complex. <i>Journal of Biological Chemistry</i> , 1996 , 271, 6483-9	5.4	105
83	Hepatic ferroptosis plays an important role as the trigger for initiating inflammation in nonalcoholic steatohepatitis. <i>Cell Death and Disease</i> , 2019 , 10, 449	9.8	103
82	Insufficient p65 phosphorylation at S536 specifically contributes to the lack of NF-kappaB activation and transformation in resistant JB6 cells. <i>Carcinogenesis</i> , 2004 , 25, 1991-2003	4.6	103

81	Fate-determining mechanisms in epithelial-myofibroblast transition: major inhibitory role for Smad3. <i>Journal of Cell Biology</i> , 2010 , 188, 383-99	7.3	100
80	Crucial role for autophagy in degranulation of mast cells. <i>Journal of Allergy and Clinical Immunology</i> , 2011 , 127, 1267-76.e6	11.5	96
79	Characterization of murine CD70 by molecular cloning and mAb. <i>International Immunology</i> , 1998 , 10, 517-26	4.9	95
78	FLIP the Switch: Regulation of Apoptosis and Necroptosis by cFLIP. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 30321-41	6.3	81
77	TRAF-1, -2, -3, -5, and -6 are induced in atherosclerotic plaques and differentially mediate proinflammatory functions of CD40L in endothelial cells. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007 , 27, 1101-7	9.4	81
76	An antiapoptotic protein, c-FLIPL, directly binds to MKK7 and inhibits the JNK pathway. <i>EMBO Journal</i> , 2006 , 25, 5549-59	13	81
75	Identification of a novel transcriptional activator, BSAC, by a functional cloning to inhibit tumor necrosis factor-induced cell death. <i>Journal of Biological Chemistry</i> , 2002 , 277, 28853-60	5.4	76
74	Human lactoferrin activates NF-kappaB through the Toll-like receptor 4 pathway while it interferes with the lipopolysaccharide-stimulated TLR4 signaling. <i>FEBS Journal</i> , 2010 , 277, 2051-66	5.7	72
73	cDNA cloning, expression, subcellular localization, and chromosomal assignment of mammalian aurora homologues, aurora-related kinase (ARK) 1 and 2. <i>Biochemical and Biophysical Research Communications</i> , 1998 , 244, 285-92	3.4	71
72	Reciprocal expression of MRTF-A and myocardin is crucial for pathological vascular remodelling in mice. <i>EMBO Journal</i> , 2012 , 31, 4428-40	13	67
71	Interleukin-11 links oxidative stress and compensatory proliferation. <i>Science Signaling</i> , 2012 , 5, ra5	8.8	65
70	Ecatenin and Smad3 regulate the activity and stability of myocardin-related transcription factor during epithelial-myofibroblast transition. <i>Molecular Biology of the Cell</i> , 2011 , 22, 4472-85	3.5	64
69	Critical contribution of oxidative stress to TNF-induced necroptosis downstream of RIPK1 activation. <i>Biochemical and Biophysical Research Communications</i> , 2013 , 436, 212-6	3.4	59
68	Inflammatory reactive oxygen species-mediated hemopoietic suppression in Fancc-deficient mice. <i>Journal of Immunology</i> , 2007 , 178, 5277-87	5.3	59
67	TRAF5 functions in both RANKL- and TNFalpha-induced osteoclastogenesis. <i>Journal of Bone and Mineral Research</i> , 2003 , 18, 443-50	6.3	58
66	Signaling crosstalk between NF-kappaB and JNK. <i>Trends in Immunology</i> , 2004 , 25, 402-5	14.4	58
65	The C-terminal activating region 2 of the Epstein-Barr virus-encoded latent membrane protein 1 activates NF-kappaB through TRAF6 and TAK1. <i>Journal of Biological Chemistry</i> , 2006 , 281, 2162-9	5.4	57
64	c-FLIP maintains tissue homeostasis by preventing apoptosis and programmed necrosis. <i>Science Signaling</i> , 2012 , 5, ra93	8.8	54

63	Ku in the cytoplasm associates with CD40 in human B cells and translocates into the nucleus following incubation with IL-4 and anti-CD40 mAb. <i>Immunity</i> , 1999 , 11, 339-48	32.3	54
62	Mitochondrial Extrusion through the cytoplasmic vacuoles during cell death. <i>Journal of Biological Chemistry</i> , 2008 , 283, 24128-35	5.4	53
61	Low shear stress preferentially enhances IKK activity through selective sources of ROS for persistent activation of NF-kappaB in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C362-71	5.4	53
60	Lymphotoxin-beta receptor mediates NEMO-independent NF-kappaB activation. <i>FEBS Letters</i> , 2002 , 532, 45-51	3.8	52
59	FOG-1 represses GATA-1-dependent FcepsilonRI beta-chain transcription: transcriptional mechanism of mast-cell-specific gene expression in mice. <i>Blood</i> , 2006 , 108, 262-9	2.2	50
58	Shigella IpaH0722 E3 ubiquitin ligase effector targets TRAF2 to inhibit PKC-NF-B activity in invaded epithelial cells. <i>PLoS Pathogens</i> , 2013 , 9, e1003409	7.6	49
57	The role of apoptosis signal-regulating kinase 1 in lymphotoxin-beta receptor-mediated cell death. <i>Journal of Biological Chemistry</i> , 2003 , 278, 16073-81	5.4	49
56	Purification of glutathione S-transferase fusion proteins as a non-degraded form by using a protease-negative E. coli strain, AD202. <i>Nucleic Acids Research</i> , 1994 , 22, 543-4	20.1	49
55	Importin β protein-mediated nuclear localization of death receptor 5 (DR5) limits DR5/tumor necrosis factor (TNF)-related apoptosis-inducing ligand (TRAIL)-induced cell death of human tumor cells. <i>Journal of Biological Chemistry</i> , 2011 , 286, 43383-93	5.4	48
54	TNF receptor-associated factor 5 limits the induction of Th2 immune responses. <i>Journal of Immunology</i> , 2004 , 172, 4292-7	5.3	48
53	A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. <i>Nature Communications</i> , 2018 , 9, 4457	17.4	47
52	Rac, PAK and p38 regulate cell contact-dependent nuclear translocation of myocardin-related transcription factor. <i>FEBS Letters</i> , 2008 , 582, 291-8	3.8	44
51	TRAF5 deficiency accelerates atherogenesis in mice by increasing inflammatory cell recruitment and foam cell formation. <i>Circulation Research</i> , 2010 , 107, 757-66	15.7	43
50	Differential topical susceptibility to TGF β in intact and injured regions of the epithelium: key role in myofibroblast transition. <i>Molecular Biology of the Cell</i> , 2013 , 24, 3326-36	3.5	42
49	A missense mutation in the MLKL brace region promotes lethal neonatal inflammation and hematopoietic dysfunction. <i>Nature Communications</i> , 2020 , 11, 3150	17.4	41
48	CAST, a novel CD3epsilon-binding protein transducing activation signal for interleukin-2 production in T cells. <i>Journal of Biological Chemistry</i> , 1999 , 274, 18173-80	5.4	39
47	Downregulation of c-FLIP promotes caspase-dependent JNK activation and reactive oxygen species accumulation in tumor cells. <i>Oncogene</i> , 2008 , 27, 76-84	9.2	37
46	TRAF2 phosphorylation modulates tumor necrosis factor alpha-induced gene expression and cell resistance to apoptosis. <i>Molecular and Cellular Biology</i> , 2009 , 29, 303-14	4.8	36

45	Tumor necrosis factor receptor-associated factor 5 is an essential mediator of ischemic brain infarction. <i>Journal of Neurochemistry</i> , 2013 , 126, 400-14	6	33
44	TRAF5 is a critical mediator of in vitro signals and in vivo functions of LMP1, the viral oncogenic mimic of CD40. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 17140-5	11.5	33
43	The adaptor TRAF5 limits the differentiation of inflammatory CD4(+) T cells by antagonizing signaling via the receptor for IL-6. <i>Nature Immunology</i> , 2014 , 15, 449-56	19.1	32
42	Nuclear translocation of the SRF co-activator MAL in cortical neurons: role of RhoA signalling. <i>Journal of Neurochemistry</i> , 2005 , 94, 169-80	6	32
41	The AP-1 transcription factor JunB is required for Th17 cell differentiation. <i>Scientific Reports</i> , 2017 , 7, 17402	4.9	31
40	Induction of G1 arrest by down-regulation of cyclin D3 in T cell hybridomas. <i>Journal of Experimental Medicine</i> , 1995 , 182, 401-8	16.6	30
39	Hyperosmotic stress regulates the distribution and stability of myocardin-related transcription factor, a key modulator of the cytoskeleton. <i>American Journal of Physiology - Cell Physiology</i> , 2013 , 304, C115-27	5.4	28
38	Tumor necrosis factor receptor-associated factor (TRAF) 2 controls homeostasis of the colon to prevent spontaneous development of murine inflammatory bowel disease. <i>Journal of Biological Chemistry</i> , 2011 , 286, 17879-88	5.4	27
37	HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains. <i>PLoS Pathogens</i> , 2017 , 13, e1006162	7.6	26
36	Genome wide analysis of TNF-inducible genes reveals that antioxidant enzymes are induced by TNF and responsible for elimination of ROS. <i>Molecular Immunology</i> , 2004 , 41, 547-51	4.3	26
35	Identification of a phosphorylation site on Ulk1 required for genotoxic stress-induced alternative autophagy. <i>Nature Communications</i> , 2020 , 11, 1754	17.4	23
34	Identification of the hallmarks of necroptosis and ferroptosis by transmission electron microscopy. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 527, 839-844	3.4	16
33	JunB plays a crucial role in development of regulatory T cells by promoting IL-2 signaling. <i>Mucosal Immunology</i> , 2019 , 12, 1104-1117	9.2	15
32	Necroptosis of Intestinal Epithelial Cells Induces Type 3 Innate Lymphoid Cell-Dependent Lethal Ileitis. <i>IScience</i> , 2019 , 15, 536-551	6.1	14
31	Critical Contribution of Nuclear Factor Erythroid 2-related Factor 2 (NRF2) to Electrophile-induced Interleukin-11 Production. <i>Journal of Biological Chemistry</i> , 2017 , 292, 205-216	5.4	14
30	An unexpected role for autophagy in degranulation of mast cells. <i>Autophagy</i> , 2011 , 7, 657-9	10.2	14
29	Human TNF receptor-associated factor 5 (TRAF5): cDNA cloning, expression and assignment of the TRAF5 gene to chromosome 1q32. <i>Genomics</i> , 1997 , 42, 26-32	4.3	14
28	TNF receptor-associated factor 2-dependent canonical pathway is crucial for the development of Peyer's patches. <i>Journal of Immunology</i> , 2007 , 178, 2272-7	5.3	14

27	Fusion of OTT to BSAC results in aberrant up-regulation of transcriptional activity. <i>Journal of Biological Chemistry</i> , 2008 , 283, 26820-8	5.4	12
26	Cellular FLICE-Inhibitory Protein Regulates Tissue Homeostasis. <i>Current Topics in Microbiology and Immunology</i> , 2017 , 403, 119-141	3.3	11
25	Protection against Fas-mediated and tumor necrosis factor receptor 1-mediated liver injury by blockade of FADD without loss of nuclear factor-kappaB activation. <i>Annals of Surgery</i> , 2001 , 234, 681-8	7.8	11
24	Effects of PU.1-induced mouse calcium-calmodulin-dependent kinase I-like kinase (CKLiK) on apoptosis of murine erythroleukemia cells. <i>Experimental Cell Research</i> , 2004 , 294, 39-50	4.2	10
23	Interleukin-11-expressing fibroblasts have a unique gene signature correlated with poor prognosis of colorectal cancer. <i>Nature Communications</i> , 2021 , 12, 2281	17.4	9
22	Depletion of myeloid cells exacerbates hepatitis and induces an aberrant increase in histone H3 in mouse serum. <i>Hepatology</i> , 2017 , 65, 237-252	11.2	8
21	Identification of TNF-alpha-responsive NF-kappaB p65-binding element in the distal promoter of the mouse serine protease inhibitor SerpinE2. <i>FEBS Letters</i> , 2006 , 580, 3257-62	3.8	7
20	NF-kappaB2 (p100) limits TNF-alpha-induced osteoclastogenesis. <i>Journal of Clinical Investigation</i> , 2009 , 119, 2879-81	15.9	7
19	Development of novel methods that monitor necroptosis and the release of DAMPs at the single cell resolution. <i>Cell Stress</i> , 2019 , 3, 66-69	5.5	7
18	Novel method to rescue a lethal phenotype through integration of target gene onto the X-chromosome. <i>Scientific Reports</i> , 2016 , 6, 37200	4.9	7
17	Expansion of circulating gamma delta T cells in active sarcoidosis closely correlates with defects in cellular immunity. <i>Clinical Immunology and Immunopathology</i> , 1995 , 74, 217-22		6
16	Blockade of TNF receptor superfamily 1 (TNFR1)-dependent and TNFR1-independent cell death is crucial for normal epidermal differentiation. <i>Journal of Allergy and Clinical Immunology</i> , 2019 , 143, 213-228.e10	11.5	6
15	Generation of and characterization of anti-IL-11 antibodies using newly established Il11-deficient mice. <i>Biochemical and Biophysical Research Communications</i> , 2018 , 505, 453-459	3.4	6
14	Aberrant accumulation of interleukin-10-secreting neutrophils in TRAF2-deficient mice. <i>Immunology and Cell Biology</i> , 2012 , 90, 881-8	5	5
13	Short form FLICE-inhibitory protein promotes TNF-induced necroptosis in fibroblasts derived from CFLARs transgenic mice. <i>Biochemical and Biophysical Research Communications</i> , 2016 , 480, 23-28	3.4	5
12	MIND bomb 2 prevents RIPK1 kinase activity-dependent and -independent apoptosis through ubiquitylation of cFLIP. <i>Communications Biology</i> , 2021 , 4, 80	6.7	5
11	Regenerating islet-derived protein (Reg3) plays a crucial role in attenuation of ileitis and colitis in mice. <i>Biochemistry and Biophysics Reports</i> , 2020 , 21, 100738	2.2	4
10	Missense mutations in the MLKL Brace region lead to lethal neonatal inflammation in mice and are present in high frequency in humans		4

9	Regulation of T cell differentiation by the AP-1 transcription factor JunB. <i>Immunological Medicine</i> , 2021 , 44, 197-203	3.7	4
8	A revival of old players. <i>EMBO Reports</i> , 2005 , 6, 126-7	6.5	3
7	Inhibition of Importin β Augments the Anticancer Effect of Agonistic Anti-Death Receptor 5 Antibody in TRAIL-resistant Tumor Cells. <i>Molecular Cancer Therapeutics</i> , 2020 , 19, 1123-1133	6.1	3
6	A murine model of acute lung injury identifies growth factors to promote tissue repair and their biomarkers. <i>Genes To Cells</i> , 2019 , 24, 112-125	2.3	2
5	Fate-determining mechanisms in epithelial-myofibroblast transition: major inhibitory role for Smad3. <i>Journal of Experimental Medicine</i> , 2010 , 207, i5-i5	16.6	1
4	Time-Lapse Imaging of Necroptosis and DAMP Release at Single-Cell Resolution. <i>Methods in Molecular Biology</i> , 2021 , 2274, 353-363	1.4	1
3	Regulation of membrane phospholipid asymmetry by Notch-mediated flippase expression controls the number of intraepithelial TCR β CD8 α T cells. <i>PLoS Biology</i> , 2019 , 17, e3000262	9.7	0
2	Regulation of the release of damage-associated molecular patterns from necroptotic cells.. <i>Biochemical Journal</i> , 2022 , 479, 677-685	3.8	0
1	Addendum: A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. <i>Nature Communications</i> , 2019 , 10, 1923	17.4	