Hiroyasu Nakano

List of Publications by Year
in descending order

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Version: 2024-02-01

117 papers	19,908 citations	23567 58 h-index	20358 116 g-index
122 all docs	122 docs citations	122 times ranked	32517 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	ASK1 Is Essential for JNK/SAPK Activation by TRAF2. Molecular Cell, 1998, 2, 389-395.	9.7	625
4	SHARPIN is a component of the NF-Î°B-activating linear ubiquitin chain assembly complex. Nature, 2011, 471, 633-636.	27.8	557
5	Differential regulation of IÂB kinase Â and Â by two upstream kinases, NF-ÂB-inducing kinase and mitogen-activated protein kinase/ERK kinase kinase-1. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 3537-3542.	7.1	512
6	A critical role of RICK/RIP2 polyubiquitination in Nod-induced NF-Î°B activation. EMBO Journal, 2008, 27, 373-383.	7.8	469
7	NF-ÂB inhibits TNF-induced accumulation of ROS that mediate prolonged MAPK activation and necrotic cell death. EMBO Journal, 2003, 22, 3898-3909.	7.8	460
8	NF-Î°B RelA Phosphorylation Regulates RelA Acetylation. Molecular and Cellular Biology, 2005, 25, 7966-7975.	2.3	402
9	Tumor Necrosis Factor Î± (TNFÎ±) Induces the Unfolded Protein Response (UPR) in a Reactive Oxygen Species (ROS)-dependent Fashion, and the UPR Counteracts ROS Accumulation by TNFÎ±. Journal of Biological Chemistry, 2005, 280, 33917-33925.	3.4	346
10	Osteoclast differentiation independent of the TRANCEâ€“RANKâ€“TRAF6 axis. Journal of Experimental Medicine, 2005, 202, 589-595.	8.5	335
11	Reactive oxygen species mediate crosstalk between NF-Î°B and JNK. Cell Death and Differentiation, 2006, 13, 730-737.	11.2	332
12	Tumor Necrosis Factor-Î±-induced IKK Phosphorylation of NF-Î°B p65 on Serine 536 Is Mediated through the TRAF2, TRAF5, and TAK1 Signaling Pathway. Journal of Biological Chemistry, 2003, 278, 36916-36923.	3.4	316
13	TRAF5, an Activator of NF-Î°B and Putative Signal Transducer for the Lymphotoxin-Î² Receptor. Journal of Biological Chemistry, 1996, 271, 14661-14664.	3.4	311
14	TWEAK Induces NF-Î°B2 p100 Processing and Long Lasting NF-Î°B Activation. Journal of Biological Chemistry, 2003, 278, 36005-36012.	3.4	279
15	Critical Roles of TRAF2 and TRAF5 in Tumor Necrosis Factor-induced NF-Î°B Activation and Protection from Cell Death. Journal of Biological Chemistry, 2001, 276, 36530-36534.	3.4	277
16	Hepatic ferroptosis plays an important role as the trigger for initiating inflammation in nonalcoholic steatohepatitis. Cell Death and Disease, 2019, 10, 449.	6.3	267
17	CD27, a Member of the Tumor Necrosis Factor Receptor Superfamily, Activates NF-Î°B and Stress-activated Protein Kinase/c-Jun N-terminal Kinase via TRAF2, TRAF5, and NF-Î°B-inducing Kinase. Journal of Biological Chemistry, 1998, 273, 13353-13358.	3.4	223
18	Molecular Basis for Hematopoietic/Mesenchymal Interaction during Initiation of Peyer's Patch Organogenesis. Journal of Experimental Medicine, 2001, 193, 621-630.	8.5	217

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19	Transient and Selective NF-Î²B p65 Serine 536 Phosphorylation Induced by T Cell Costimulation Is Mediated by IÎ²B Kinase Î² and Controls the Kinetics of p65 Nuclear Import. Journal of Immunology, 2004, 172, 6336-6344.	0.8	205
20	Role of Adapter Function in Oncoprotein-mediated Activation of NF-Î²B. Journal of Biological Chemistry, 1999, 274, 17402-17405.	3.4	204
21	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. Journal of Biological Chemistry, 2005, 280, 37033-37040.	3.4	196
22	Tumor Necrosis Factor Receptor-associated Factor (TRAF) 5 and TRAF2 Are Involved in CD30-mediated NFÎ²B Activation. Journal of Biological Chemistry, 1997, 272, 2042-2045.	3.4	193
23	Essential Role of Nuclear Factor (NF)-Î²Bâ€“Inducing Kinase and Inhibitor of Î²b (IÎ²b) Kinase Î± in Nf-Î²b Activation through Lymphotoxin Î² Receptor, but Not through Tumor Necrosis Factor Receptor I. Journal of Experimental Medicine, 2001, 193, 631-636.	8.5	193
24	Ubiquitin-dependent degradation of IÂBÂ is mediated by a ubiquitin ligase Skp1/Cul 1/F-box protein FWD1. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 3859-3863.	7.1	192
25	Targeted disruption of Traf5 gene causes defects in CD40- and CD27-mediated lymphocyte activation. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 9803-9808.	7.1	183
26	Pro-inflammatory effect of TWEAK/Fn14 interaction on human umbilical vein endothelial cells. Biochemical and Biophysical Research Communications, 2002, 299, 488-493.	2.1	163
27	Cell Contactâ€“dependent Regulation of Epithelialâ€“Myofibroblast Transition via the Rho-Rho Kinase-Phospho-Myosin Pathway. Molecular Biology of the Cell, 2007, 18, 1083-1097.	2.1	161
28	Multiple Pathways of TWEAK-Induced Cell Death. Journal of Immunology, 2002, 168, 734-743.	0.8	160
29	TRAF Family Proteins Link PKR with NF-Î²B Activation. Molecular and Cellular Biology, 2004, 24, 4502-4512.	2.3	147
30	Phosphorylation of serine 276 is essential for p65 NF-Î²B subunit-dependent cellular responses. Biochemical and Biophysical Research Communications, 2003, 300, 807-812.	2.1	145
31	The death domain kinase RIP has an essential role in DNA damage-induced NF-kappa B activation. Genes and Development, 2003, 17, 873-882.	5.9	126
32	Epstein-Barr virus latent membrane protein 1 activation of NF-ÂB through IRAK1 and TRAF6. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 15595-15600.	7.1	120
33	Crucial role for autophagy in degranulation of mast cells. Journal of Allergy and Clinical Immunology, 2011, 127, 1267-1276.e6.	2.9	120
34	FLIP the Switch: Regulation of Apoptosis and Necroptosis by cFLIP. International Journal of Molecular Sciences, 2015, 16, 30321-30341.	4.1	118
35	Insufficient p65 phosphorylation at S536 specifically contributes to the lack of NF-ÂB activation and transformation in resistant JB6 cells. Carcinogenesis, 2004, 25, 1991-2003.	2.8	117
36	Tumor Necrosis Factor Receptorâ€“associated Factor 6 (TRAF6) Stimulates Extracellular Signalâ€“regulated Kinase (ERK) Activity in CD40 Signaling Along a Ras-independent Pathway. Journal of Experimental Medicine, 1998, 187, 237-244.	8.5	116

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37	Fate-determining mechanisms in epithelialâ€“myofibroblast transition: major inhibitory role for Smad3. Journal of Cell Biology, 2010, 188, 383-399.	5.2	113
38	Specific Interaction of Topoisomerase IIÎ² and the CD3Îµ Chain of the T Cell Receptor Complex. Journal of Biological Chemistry, 1996, 271, 6483-6489.	3.4	111
39	Characterization of murine CD70 by molecular cloning and mAb. International Immunology, 1998, 10, 517-526.	4.0	103
40	TRAF-1, -2, -3, -5, and -6 Are Induced in Atherosclerotic Plaques and Differentially Mediate Proinflammatory Functions of CD40L in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1101-1107.	2.4	97
41	Human lactoferrin activates NFâ€ÎºB through the Tollâ€like receptor 4 pathway while it interferes with the lipopolysaccharideâ€stimulated TLR4 signaling. FEBS Journal, 2010, 277, 2051-2066.	4.7	95
42	An antiapoptotic protein, c-FLIPL, directly binds to MKK7 and inhibits the JNK pathway. EMBO Journal, 2006, 25, 5549-5559.	7.8	90
43	Interleukin-11 Links Oxidative Stress and Compensatory Proliferation. Science Signaling, 2012, 5, ra5.	3.6	87
44	Reciprocal expression of MRTF-A and myocardin is crucial for pathological vascular remodelling in mice. EMBO Journal, 2012, 31, 4428-4440.	7.8	83
45	Identification of a Novel Transcriptional Activator, BSAC, by a Functional Cloning to Inhibit Tumor Necrosis Factor-induced Cell Death. Journal of Biological Chemistry, 2002, 277, 28853-28860.	3.4	81
46	Î²-Catenin and Smad3 regulate the activity and stability of myocardin-related transcription factor during epithelialâ€“myofibroblast transition. Molecular Biology of the Cell, 2011, 22, 4472-4485.	2.1	76
47	Critical contribution of oxidative stress to TNFÎ±-induced necroptosis downstream of RIPK1 activation. Biochemical and Biophysical Research Communications, 2013, 436, 212-216.	2.1	76
48	Lymphotoxin-Î² receptor mediates NEMO-independent NF-ÎºB activation. FEBS Letters, 2002, 532, 45-51.	2.8	75
49	A missense mutation in the MLKL brace region promotes lethal neonatal inflammation and hematopoietic dysfunction. Nature Communications, 2020, 11, 3150.	12.8	75
50	cDNA Cloning, Expression, Subcellular Localization, and Chromosomal Assignment of Mammalian Aurora Homologues, Aurora-Related Kinase (ARK) 1 and 2. Biochemical and Biophysical Research Communications, 1998, 244, 285-292.	2.1	73
51	Mitochondrial Extrusion through the Cytoplasmic Vacuoles during Cell Death. Journal of Biological Chemistry, 2008, 283, 24128-24135.	3.4	70
52	The C-terminal Activating Region 2 of the Epstein-Barr Virus-encoded Latent Membrane Protein 1 Activates NF-ÎºB through TRAF6 and TAK1. Journal of Biological Chemistry, 2006, 281, 2162-2169.	3.4	68
53	Signaling crosstalk between NF-ÎºB and JNK. Trends in Immunology, 2004, 25, 402-405.	6.8	67
54	Inflammatory Reactive Oxygen Species-Mediated Hemopoietic Suppression in Fancc-Deficient Mice. Journal of Immunology, 2007, 178, 5277-5287.	0.8	67

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55	c-FLIP Maintains Tissue Homeostasis by Preventing Apoptosis and Programmed Necrosis. Science Signaling, 2012, 5, ra93.	3.6	66
56	A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. Nature Communications, 2018, 9, 4457.	12.8	65
57	Low shear stress preferentially enhances IKK activity through selective sources of ROS for persistent activation of NF-Î¹B in endothelial cells. American Journal of Physiology - Cell Physiology, 2007, 292, C362-C371.	4.6	64
58	TRAF5 Functions in Both RANKL- and TNFÎ±-Induced Osteoclastogenesis. Journal of Bone and Mineral Research, 2003, 18, 443-450.	2.8	63
59	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. Immunity, 1999, 11, 339-348.	14.3	61
60	Interleukin-11-expressing fibroblasts have a unique gene signature correlated with poor prognosis of colorectal cancer. Nature Communications, 2021, 12, 2281.	12.8	60
61	Importin Î²1 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. Journal of Biological Chemistry, 2011, 286, 43383-43393.	3.4	58
62	Shigella IpaH0722 E3 Ubiquitin Ligase Effector Targets TRAF2 to Inhibit PKCâ€“NF-Î¹B Activity in Invaded Epithelial Cells. PLoS Pathogens, 2013, 9, e1003409.	4.7	58
63	FOG-1 represses GATA-1-dependent FcÏµRI Î²-chain transcription: transcriptional mechanism of mast-cell-specific gene expression in mice. Blood, 2006, 108, 262-269.	1.4	55
64	TNF Receptor-Associated Factor 5 Limits the Induction of Th2 Immune Responses. Journal of Immunology, 2004, 172, 4292-4297.	0.8	54
65	Purification of glutathione S-transferase fusion proteins as a non-degraded form by using a protease-nagativeE.colistrain, AD202. Nucleic Acids Research, 1994, 22, 543-544.	14.5	52
66	The Role of Apoptosis Signal-regulating Kinase 1 in Lymphotoxin-Î² Receptor-mediated Cell Death. Journal of Biological Chemistry, 2003, 278, 16073-16081.	3.4	52
67	Downregulation of c-FLIP promotes caspase-dependent JNK activation and reactive oxygen species accumulation in tumor cells. Oncogene, 2008, 27, 76-84.	5.9	50
68	Rac, PAK and p38 regulate cell contactâ€dependent nuclear translocation of myocardinâ€related transcription factor. FEBS Letters, 2008, 582, 291-298.	2.8	49
69	TRAF5 Deficiency Accelerates Atherogenesis in Mice by Increasing Inflammatory Cell Recruitment and Foam Cell Formation. Circulation Research, 2010, 107, 757-766.	4.5	48
70	The AP-1 transcription factor JunB is required for Th17 cell differentiation. Scientific Reports, 2017, 7, 17402.	3.3	47
71	Identification of a phosphorylation site on Ulk1 required for genotoxic stress-induced alternative autophagy. Nature Communications, 2020, 11, 1754.	12.8	46
72	Differential topical susceptibility to TGFÎ² in intact and injured regions of the epithelium: key role in myofibroblast transition. Molecular Biology of the Cell, 2013, 24, 3326-3336.	2.1	45

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73	CAST, a Novel CD3Îµ-binding Protein Transducing Activation Signal for Interleukin-2 Production in T Cells. Journal of Biological Chemistry, 1999, 274, 18173-18180.	3.4	43
74	TRAF2 Phosphorylation Modulates Tumor Necrosis Factor Alpha-Induced Gene Expression and Cell Resistance to Apoptosis. Molecular and Cellular Biology, 2009, 29, 303-314.	2.3	43
75	Identification of the hallmarks of necroptosis and ferroptosis by transmission electron microscopy. Biochemical and Biophysical Research Communications, 2020, 527, 839-844.	2.1	39
76	The adaptor TRAF5 limits the differentiation of inflammatory CD4+ T cells by antagonizing signaling via the receptor for IL-6. Nature Immunology, 2014, 15, 449-456.	14.5	38
77	TRAF5 is a critical mediator of in vitro signals and in vivo functions of LMP1, the viral oncogenic mimic of CD40. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 17140-17145.	7.1	37
78	Nuclear translocation of the SRF co-activator MAL in cortical neurons: role of RhoA signalling. Journal of Neurochemistry, 2005, 94, 169-180.	3.9	36
79	Tumor necrosis factor receptorâ€associated factor 5 is an essential mediator of ischemic brain infarction. Journal of Neurochemistry, 2013, 126, 400-414.	3.9	36
80	JunB plays a crucial role in development of regulatory T cells by promoting IL-2 signaling. Mucosal Immunology, 2019, 12, 1104-1117.	6.0	34
81	Induction of G1 arrest by down-regulation of cyclin D3 in T cell hybridomas.. Journal of Experimental Medicine, 1995, 182, 401-408.	8.5	33
82	Tumor Necrosis Factor Receptor-associated Factor (TRAF) 2 Controls Homeostasis of the Colon to Prevent Spontaneous Development of Murine Inflammatory Bowel Disease. Journal of Biological Chemistry, 2011, 286, 17879-17888.	3.4	31
83	Hyperosmotic stress regulates the distribution and stability of myocardin-related transcription factor, a key modulator of the cytoskeleton. American Journal of Physiology - Cell Physiology, 2013, 304, C115-C127.	4.6	30
84	HTLV-1 Tax Induces Formation of the Active Macromolecular IKK Complex by Generating Lys63- and Met1-Linked Hybrid Polyubiquitin Chains. PLoS Pathogens, 2017, 13, e1006162.	4.7	30
85	Genome wide analysis of TNF-inducible genes reveals that antioxidant enzymes are induced by TNF and responsible for elimination of ROS. Molecular Immunology, 2004, 41, 547-551.	2.2	26
86	Regulation of T cell differentiation by the AP-1 transcription factor JunB. Immunological Medicine, 2021, 44, 197-203.	2.6	25
87	An unexpected role for autophagy in degranulation of mast cells. Autophagy, 2011, 7, 657-659.	9.1	24
88	Critical Contribution of Nuclear Factor Erythroid 2-related Factor 2 (NRF2) to Electrophile-induced Interleukin-11 Production. Journal of Biological Chemistry, 2017, 292, 205-216.	3.4	22
89	Necroptosis of Intestinal Epithelial Cells Induces Type 3 Innate Lymphoid Cell-Dependent Lethal Ileitis. IScience, 2019, 15, 536-551.	4.1	21
90	Regulation of the release of damage-associated molecular patterns from necroptotic cells. Biochemical Journal, 2022, 479, 677-685.	3.7	17

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91	Human TNF Receptor-Associated Factor 5 (TRAF5): cDNA Cloning, Expression and Assignment of the TRAF5 Gene to Chromosome 1q32. Genomics, 1997, 42, 26-32.	2.9	15
92	TNF Receptor-Associated Factor 2-Dependent Canonical Pathway Is Crucial for the Development of Peyerâ€™s Patches. Journal of Immunology, 2007, 178, 2272-2277.	0.8	14
93	Cellular FLICE-Inhibitory Protein Regulates Tissue Homeostasis. Current Topics in Microbiology and Immunology, 2015, 403, 119-141.	1.1	14
94	Protection Against Fas-Mediated and Tumor Necrosis Factor Receptor 1-Mediated Liver Injury by Blockade of FADD Without Loss of Nuclear Factor-ÎºB Activation. Annals of Surgery, 2001, 234, 681-688.	4.2	13
95	Fusion of OTT to BSAC Results in Aberrant Up-regulation of Transcriptional Activity. Journal of Biological Chemistry, 2008, 283, 26820-26828.	3.4	13
96	MIND bomb 2 prevents RIPK1 kinase activity-dependent and -independent apoptosis through ubiquitylation of cFLIPL. Communications Biology, 2021, 4, 80.	4.4	13
97	Effects of PU.1-induced mouse calciumâ€“calmodulin-dependent kinase I-like kinase (CKLiK) on apoptosis of murine erythroleukemia cells. Experimental Cell Research, 2004, 294, 39-50.	2.6	12
98	Depletion of myeloid cells exacerbates hepatitis and induces an aberrant increase in histone H3 in mouse serum. Hepatology, 2017, 65, 237-252.	7.3	12
99	Novel method to rescue a lethal phenotype through integration of target gene onto the X-chromosome. Scientific Reports, 2016, 6, 37200.	3.3	11
100	Generation of and characterization of anti-IL-11 antibodies using newly established Il11-deficient mice. Biochemical and Biophysical Research Communications, 2018, 505, 453-459.	2.1	11
101	Blockade of TNF receptor superfamily 1 (TNFR1)â€“dependent and TNFR1-independent cell death is crucial for normal epidermal differentiation. Journal of Allergy and Clinical Immunology, 2019, 143, 213-228.e10.	2.9	11
102	Regenerating islet-derived protein (Reg)3Î² plays a crucial role in attenuation of ileitis and colitis in mice. Biochemistry and Biophysics Reports, 2020, 21, 100738.	1.3	11
103	NF-ÎºB2 (p100) limits TNF-Î±â€“induced osteoclastogenesis. Journal of Clinical Investigation, 2009, 119, 2879-2881.	8.2	11
104	Development of novel methods that monitor necroptosis and the release of DAMPs at the single cell resolution. Cell Stress, 2019, 3, 66-69.	3.2	10
105	Expansion of Circulating Î³Î´ T Cells in Active Sarcoidosis Closely Correlates with Defects in Cellular Immunity. Clinical Immunology and Immunopathology, 1995, 74, 217-222.	2.0	8
106	Identification of TNF-Î±-responsive NF-ÎºB p65-binding element in the distal promoter of the mouse serine protease inhibitorSerpinE2. FEBS Letters, 2006, 580, 3257-3262.	2.8	8
107	The scaffold-dependent function of RIPK1 in dendritic cells promotes injury-induced colitis. Mucosal Immunology, 2022, 15, 84-95.	6.0	7
108	Aberrant accumulation of interleukinâ€10â€secreting neutrophils in TRAF2â€deficient mice. Immunology and Cell Biology, 2012, 90, 881-888.	2.3	6

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109	Short form FLICE-inhibitory protein promotes TNFÎ±-induced necroptosis in fibroblasts derived from CFLARs transgenic mice. Biochemical and Biophysical Research Communications, 2016, 480, 23-28.	2.1	6
110	Inhibition of Importin Î²1 Augments the Anticancer Effect of Agonistic Anti-Death Receptor 5 Antibody in TRAIL-resistant Tumor Cells. Molecular Cancer Therapeutics, 2020, 19, 1123-1133.	4.1	6
111	A murine model of acute lung injury identifies growth factors to promote tissue repair and their biomarkers. Genes To Cells, 2019, 24, 112-125.	1.2	5
112	A revival of old players. EMBO Reports, 2005, 6, 126-127.	4.5	3
113	Regulation of membrane phospholipid asymmetry by Notch-mediated flippase expression controls the number of intraepithelial TCRÎ±Î²+CD8Î±Î±+ T cells. PLoS Biology, 2019, 17, e3000262.	5.6	3
114	Addendum: A FRET biosensor for necroptosis uncovers two different modes of the release of DAMPs. Nature Communications, 2019, 10, 1923.	12.8	2
115	Time-Lapse Imaging of Necroptosis and DAMP Release at Single-Cell Resolution. Methods in Molecular Biology, 2021, 2274, 353-363.	0.9	2
116	Fate-determining mechanisms in epithelialâ€“myofibroblast transition: major inhibitory role for Smad3. Journal of Experimental Medicine, 2010, 207, i5-i5.	8.5	1
117	Proscillaridin A Sensitizes Human Colon Cancer Cells to TRAIL-Induced Cell Death. International Journal of Molecular Sciences, 2022, 23, 6973.	4.1	0