

# Rajendra Karki

## List of Publications by Year in descending order

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62  
papers

8,697  
citations

76326

40  
h-index

123424

61  
g-index

64  
all docs

64  
docs citations

64  
times ranked

10632  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular mechanisms and functions of pyroptosis, inflammatory caspases and inflammasomes in infectious diseases. <i>Immunological Reviews</i> , 2017, 277, 61-75.	6.0	1,104
2	Synergism of TNF- $\alpha$ and IFN- $\beta$ Triggers Inflammatory Cell Death, Tissue Damage, and Mortality in SARS-CoV-2 Infection and Cytokine Shock Syndromes. <i>Cell</i> , 2021, 184, 149-168.e17.	28.9	923
3	ZBP1/DAI is an innate sensor of influenza virus triggering the NLRP3 inflammasome and programmed cell death pathways. <i>Science Immunology</i> , 2016, 1, .	11.9	464
4	Diverging inflammasome signals in tumorigenesis and potential targeting. <i>Nature Reviews Cancer</i> , 2019, 19, 197-214.	28.4	426
5	TLR2 senses the SARS-CoV-2 envelope protein to produce inflammatory cytokines. <i>Nature Immunology</i> , 2021, 22, 829-838.	14.5	364
6	The transcription factor IRF1 and guanylate-binding proteins target activation of the AIM2 inflammasome by Francisella infection. <i>Nature Immunology</i> , 2015, 16, 467-475.	14.5	291
7	Inflammasomes and Cancer. <i>Cancer Immunology Research</i> , 2017, 5, 94-99.	3.4	290
8	Critical Role for the DNA Sensor AIM2 in Stem Cell Proliferation and Cancer. <i>Cell</i> , 2015, 162, 45-58.	28.9	266
9	DDX3X acts as a live-or-die checkpoint in stressed cells by regulating NLRP3 inflammasome. <i>Nature</i> , 2019, 573, 590-594.	27.8	262
10	AIM2 inflammasome in infection, cancer, and autoimmunity: Role in DNA sensing, inflammation, and innate immunity. <i>European Journal of Immunology</i> , 2016, 46, 269-280.	2.9	253
11	Caspase-6 Is a Key Regulator of Innate Immunity, Inflammasome Activation, and Host Defense. <i>Cell</i> , 2020, 181, 674-687.e13.	28.9	252
12	IRGB10 Liberates Bacterial Ligands for Sensing by the AIM2 and Caspase-11-NLRP3 Inflammasomes. <i>Cell</i> , 2016, 167, 382-396.e17.	28.9	237
13	Identification of the PANoptosome: A Molecular Platform Triggering Pyroptosis, Apoptosis, and Necroptosis (PANoptosis). <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 237.	3.9	235
14	Concerted Activation of the AIM2 and NLRP3 Inflammasomes Orchestrates Host Protection against Aspergillus Infection. <i>Cell Host and Microbe</i> , 2015, 17, 357-368.	11.0	227
15	AIM2 forms a complex with pyrin and ZBP1 to drive PANoptosis and host defence. <i>Nature</i> , 2021, 597, 415-419.	27.8	221
16	Role of AIM2 inflammasome in inflammatory diseases, cancer and infection. <i>European Journal of Immunology</i> , 2019, 49, 1998-2011.	2.9	162
17	NLRC3 is an inhibitory sensor of PI3K-mTOR pathways in cancer. <i>Nature</i> , 2016, 540, 583-587.	27.8	160
18	ADAR1 restricts ZBP1-mediated immune response and PANoptosis to promote tumorigenesis. <i>Cell Reports</i> , 2021, 37, 109858.	6.4	157

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19	The "cytokine storm": molecular mechanisms and therapeutic prospects. Trends in Immunology, 2021, 42, 681-705.	6.8	156
20	Impaired NLRP3 inflammasome activation/pyroptosis leads to robust inflammatory cell death via caspase-8/RIPK3 during coronavirus infection. Journal of Biological Chemistry, 2020, 295, 14040-14052.	3.4	144
21	IRF8 Regulates Transcription of Naips for NLRC4 Inflammasome Activation. Cell, 2018, 173, 920-933.e13.	28.9	142
22	Interferon regulatory factor 1 regulates PANoptosis to prevent colorectal cancer. JCI Insight, 2020, 5, .	5.0	125
23	An NLRP3 inflammasome-triggered Th2-biased adaptive immune response promotes leishmaniasis. Journal of Clinical Investigation, 2015, 125, 1329-1338.	8.2	113
24	Pyrin Inflammasome Regulates Tight Junction Integrity to Restrict Colitis and Tumorigenesis. Gastroenterology, 2018, 154, 948-964.e8.	1.3	112
25	Differential roles of caspase-1 and caspase-11 in infection and inflammation. Scientific Reports, 2017, 7, 45126.	3.3	109
26	Mitochondrial Stress-Initiated Aberrant Activation of the NLRP3 Inflammasome Regulates the Functional Deterioration of Hematopoietic Stem Cell Aging. Cell Reports, 2019, 26, 945-954.e4.	6.4	98
27	ZBP1 promotes fungi-induced inflammasome activation and pyroptosis, apoptosis, and necroptosis (PANoptosis). Journal of Biological Chemistry, 2020, 295, 18276-18283.	3.4	94
28	Inflammatory Cell Death, PANoptosis, Mediated by Cytokines in Diverse Cancer Lineages Inhibits Tumor Growth. ImmunoHorizons, 2021, 5, 568-580.	1.8	88
29	ZBP1-dependent inflammatory cell death, PANoptosis, and cytokine storm disrupt IFN therapeutic efficacy during coronavirus infection. Science Immunology, 2022, 7, eabo6294.	11.9	82
30	Galactosaminogalactan activates the inflammasome to provide host protection. Nature, 2020, 588, 688-692.	27.8	78
31	Cepharanthine inhibits in vitro VSMC proliferation and migration and vascular inflammatory responses mediated by RAW264.7. Toxicology in Vitro, 2016, 34, 16-25.	2.4	74
32	Cathepsin B modulates lysosomal biogenesis and host defense against <i>Francisella novicida</i> infection. Journal of Experimental Medicine, 2016, 213, 2081-2097.	8.5	72
33	RIPK1 Distinctly Regulates <i>Yersinia</i> -Induced Inflammatory Cell Death, PANoptosis. ImmunoHorizons, 2020, 4, 789-796.	1.8	69
34	Extract of buckwheat sprouts scavenges oxidation and inhibits pro-inflammatory mediators in lipopolysaccharide-stimulated macrophages (RAW264.7). Journal of Integrative Medicine, 2013, 11, 246-252.	3.1	68
35	NLRC3 regulates cellular proliferation and apoptosis to attenuate the development of colorectal cancer. Cell Cycle, 2017, 16, 1243-1251.	2.6	60
36	Alkaloid rich fraction from <i>Nelumbo nucifera</i> targets VSMC proliferation and migration to suppress restenosis in balloon-injured rat carotid artery. Atherosclerosis, 2016, 248, 179-189.	0.8	59

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37	Fungal ligands released by innate immune effectors promote inflammasome activation during <i>Aspergillus fumigatus</i> infection. <i>Nature Microbiology</i> , 2019, 4, 316-327.	13.3	53
38	Guanylate binding proteins facilitate caspase-11-dependent pyroptosis in response to type 3 secretion system-negative <i>Pseudomonas aeruginosa</i> . <i>Cell Death Discovery</i> , 2018, 4, 3.	4.7	51
39	Gasdermin D Promotes AIM2 Inflammasome Activation and Is Required for Host Protection against <i>Francisella novicida</i> . <i>Journal of Immunology</i> , 2018, 201, 3662-3668.	0.8	48
40	Toll-Like Receptor 4-Mediated Nuclear Factor Kappa B Activation Is Essential for Sensing Exogenous Oxidants to Propagate and Maintain Oxidative/Nitrosative Cellular Stress. <i>PLoS ONE</i> , 2013, 8, e73840.	2.5	40
41	Magnolol attenuates neointima formation by inducing cell cycle arrest via inhibition of ERK1/2 and NF- $\kappa$ B activation in vascular smooth muscle cells. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 2619-2628.	2.4	39
42	DNA-sensing inflammasomes: regulation of bacterial host defense and the gut microbiota. <i>Pathogens and Disease</i> , 2016, 74, ftw028.	2.0	37
43	DDX3X coordinates host defense against influenza virus by activating the NLRP3 inflammasome and type I interferon response. <i>Journal of Biological Chemistry</i> , 2021, 296, 100579.	3.4	35
44	Detrimental Type I Interferon Signaling Dominates Protective AIM2 Inflammasome Responses during <i>Francisella novicida</i> Infection. <i>Cell Reports</i> , 2018, 22, 3168-3174.	6.4	32
45	Toll-like receptor 4 signaling: A common pathway for interactions between prooxidants and extracellular disulfide high mobility group box 1 (HMGB1) protein-coupled activation. <i>Biochemical Pharmacology</i> , 2015, 98, 132-143.	4.4	31
46	<i>Nelumbo nucifera</i> leaf extract inhibits neointimal hyperplasia through modulation of smooth muscle cell proliferation and migration. <i>Nutrition</i> , 2013, 29, 268-275.	2.4	29
47	Innate immune adaptor MyD88 deficiency prevents skin inflammation in SHARPIN-deficient mice. <i>Cell Death and Differentiation</i> , 2019, 26, 741-750.	11.2	29
48	Magnolol inhibits migration of vascular smooth muscle cells via cytoskeletal remodeling pathway to attenuate neointima formation. <i>Experimental Cell Research</i> , 2013, 319, 3238-3250.	2.6	28
49	Inhibitory Effect of <i>Nelumbo nucifera</i> (Gaertn.) on the Development of Atopic Dermatitis-Like Skin Lesions in NC/Nga Mice. <i>Evidence-based Complementary and Alternative Medicine</i> , 2012, 2012, 1-7.	1.2	22
50	<i>Magnoliae Cortex</i> inhibits intimal thickening of carotid artery through modulation of proliferation and migration of vascular smooth muscle cells. <i>Food and Chemical Toxicology</i> , 2012, 50, 634-640.	3.6	22
51	IRF8 Regulates Gram-Negative Bacteria-Mediated NLRP3 Inflammasome Activation and Cell Death. <i>Journal of Immunology</i> , 2020, 204, 2514-2522.	0.8	19
52	Chungtaejeon, a Korean Fermented Tea, Scavenges Oxidation and Inhibits Cytokine Induced Proliferation and Migration of Human Aortic Smooth Muscle Cells. <i>Plant Foods for Human Nutrition</i> , 2011, 66, 27-33.	3.2	18
53	ASK Family Kinases Are Required for Optimal NLRP3 Inflammasome Priming. <i>American Journal of Pathology</i> , 2018, 188, 1021-1030.	3.8	17
54	Activation of c-Src: A hub for exogenous pro-oxidant-mediated activation of Toll-like receptor 4 signaling. <i>Free Radical Biology and Medicine</i> , 2014, 71, 256-269.	2.9	15

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55	Interferon inducible GBPs restrict Burkholderia thailandensis motility induced cell-cell fusion. PLoS Pathogens, 2020, 16, e1008364.	4.7	15
56	The nonreceptor tyrosine kinase SYK drives caspase-8/NLRP3 inflammasome-mediated autoinflammatory osteomyelitis. Journal of Biological Chemistry, 2020, 295, 3394-3400.	3.4	14
57	Cutting Edge: Caspase-8 Is a Linchpin in Caspase-3 and Gasdermin D Activation to Control Cell Death, Cytokine Release, and Host Defense during Influenza A Virus Infection. Journal of Immunology, 2021, 207, 2411-2416.	0.8	14
58	Caspase-6 promotes activation of the caspase-11-NLRP3 inflammasome during gram-negative bacterial infections. Journal of Biological Chemistry, 2021, 297, 101379.	3.4	8
59	Ets-2 deletion in myeloid cells attenuates IL-1 $\beta$ -mediated inflammatory disease caused by a Ptpn6 point mutation. Cellular and Molecular Immunology, 2021, 18, 1798-1808.	10.5	7
60	The Transcription Factor IRF9 Promotes Colorectal Cancer via Modulating the IL-6/STAT3 Signaling Axis. Cancers, 2022, 14, 919.	3.7	6
61	NLRC4 Deficiency Leads to Enhanced Phosphorylation of MLKL and Necroptosis. ImmunoHorizons, 2022, 6, 243-252.	1.8	4
62	The NLRC4 inflammasome requires IRF8-dependent production of NAIPs. Cell Stress, 2018, 2, 144-146.	3.2	0