

# R K Subbarao Malireddi

## List of Publications by Year in descending order

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71  
papers

10,176  
citations

50170

46  
h-index

85405

71  
g-index

74  
all docs

74  
docs citations

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times ranked

12292  
citing authors

#	ARTICLE	IF	CITATIONS
1	Synergism of TNF- $\alpha$ and IFN- $\gamma$ 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.	13.5	923
2	Molecular characterization of LC3-associated phagocytosis reveals distinct roles for Rubicon, NOX2 and autophagy proteins. <i>Nature Cell Biology</i> , 2015, 17, 893-906.	4.6	702
3	Caspases in Cell Death, Inflammation, and Pyroptosis. <i>Annual Review of Immunology</i> , 2020, 38, 567-595.	9.5	470
4	ZBP1/DAI is an innate sensor of influenza virus triggering the NLRP3 inflammasome and programmed cell death pathways. <i>Science Immunology</i> , 2016, 1, .	5.6	464
5	FADD and Caspase-8 Mediate Priming and Activation of the Canonical and Noncanonical Nlrp3 Inflammasomes. <i>Journal of Immunology</i> , 2014, 192, 1835-1846.	0.4	429
6	The NOD-Like Receptor NLRP12 Attenuates Colon Inflammation and Tumorigenesis. <i>Cancer Cell</i> , 2011, 20, 649-660.	7.7	343
7	NLRP6 negatively regulates innate immunity and host defence against bacterial pathogens. <i>Nature</i> , 2012, 488, 389-393.	13.7	328
8	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.	7.0	291
9	Critical Role for the DNA Sensor AIM2 in Stem Cell Proliferation and Cancer. <i>Cell</i> , 2015, 162, 45-58.	13.5	266
10	DDX3X acts as a live-or-die checkpoint in stressed cells by regulating NLRP3 inflammasome. <i>Nature</i> , 2019, 573, 590-594.	13.7	262
11	Engagement of fatty acids with toll-like receptor 2 drives interleukin-1 $\beta$ production via the ASC/caspase 1 pathway in monosodium urate monohydrate crystal-induced gouty arthritis. <i>Arthritis and Rheumatism</i> , 2010, 62, 3237-3248.	6.7	259
12	The TWIK2 Potassium Efflux Channel in Macrophages Mediates NLRP3 Inflammasome-Induced Inflammation. <i>Immunity</i> , 2018, 49, 56-65.e4.	6.6	247
13	IRGB10 Liberates Bacterial Ligands for Sensing by the AIM2 and Caspase-11-NLRP3 Inflammasomes. <i>Cell</i> , 2016, 167, 382-396.e17.	13.5	237
14	Identification of the PANoptosome: A Molecular Platform Triggering Pyroptosis, Apoptosis, and Necroptosis (PANoptosis). <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 237.	1.8	235
15	ZBP1 and TAK1: Master Regulators of NLRP3 Inflammasome/Pyroptosis, Apoptosis, and Necroptosis (PAN-optosis). <i>Frontiers in Cellular and Infection Microbiology</i> , 2019, 9, 406.	1.8	231
16	Concerted Activation of the AIM2 and NLRP3 Inflammasomes Orchestrates Host Protection against <i>Aspergillus</i> Infection. <i>Cell Host and Microbe</i> , 2015, 17, 357-368.	5.1	227
17	Fungal Chitin Dampens Inflammation through IL-10 Induction Mediated by NOD2 and TLR9 Activation. <i>PLoS Pathogens</i> , 2014, 10, e1004050.	2.1	215
18	Toll or Interleukin-1 Receptor (TIR) Domain-containing Adaptor Inducing Interferon- $\beta$ (TRIF)-mediated Caspase-11 Protease Production Integrates Toll-like Receptor 4 (TLR4) Protein- and Nlrp3 Inflammasome-mediated Host Defense against Enteropathogens. <i>Journal of Biological Chemistry</i> , 2012, 287, 34474-34483.	1.6	211

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19	The PANoptosome: A Deadly Protein Complex Driving Pyroptosis, Apoptosis, and Necroptosis (PANoptosis). <i>Frontiers in Cellular and Infection Microbiology</i> , 2020, 10, 238.	1.8	201
20	Innate immune priming in the absence of TAK1 drives RIPK1 kinase activity-independent pyroptosis, apoptosis, necroptosis, and inflammatory disease. <i>Journal of Experimental Medicine</i> , 2020, 217, .	4.2	178
21	TAK1 restricts spontaneous NLRP3 activation and cell death to control myeloid proliferation. <i>Journal of Experimental Medicine</i> , 2018, 215, 1023-1034.	4.2	167
22	NLRC3 is an inhibitory sensor of PI3K-mTOR pathways in cancer. <i>Nature</i> , 2016, 540, 583-587.	13.7	160
23	ADAR1 restricts ZBP1-mediated immune response and PANoptosis to promote tumorigenesis. <i>Cell Reports</i> , 2021, 37, 109858.	2.9	157
24	Impaired NLRP3 inflammasome activation/pyroptosis leads to robust inflammatory cell death via caspase-8/RIPK3 during coronavirus infection. <i>Journal of Biological Chemistry</i> , 2020, 295, 14040-14052.	1.6	144
25	GSDMD is critical for autoinflammatory pathology in a mouse model of Familial Mediterranean Fever. <i>Journal of Experimental Medicine</i> , 2018, 215, 1519-1529.	4.2	143
26	IRF8 Regulates Transcription of Naips for NLRC4 Inflammasome Activation. <i>Cell</i> , 2018, 173, 920-933.e13.	13.5	142
27	SYK-CARD9 Signaling Axis Promotes Gut Fungi-Mediated Inflammasome Activation to Restrict Colitis and Colon Cancer. <i>Immunity</i> , 2018, 49, 515-530.e5.	6.6	138
28	Fungal Zymosan and Mannan Activate the Cryopyrin Inflammasome. <i>Journal of Biological Chemistry</i> , 2009, 284, 20574-20581.	1.6	126
29	The inflammasome drives protective Th1 and Th17 cellular responses in disseminated candidiasis. <i>European Journal of Immunology</i> , 2011, 41, 2260-2268.	1.6	126
30	NALP3 inflammasome upregulation and CASP1 cleavage of the glucocorticoid receptor cause glucocorticoid resistance in leukemia cells. <i>Nature Genetics</i> , 2015, 47, 607-614.	9.4	126
31	ZBP1/DAI ubiquitination and sensing of influenza vRNPs activate programmed cell death. <i>Journal of Experimental Medicine</i> , 2017, 214, 2217-2229.	4.2	126
32	Interferon regulatory factor 1 regulates PANoptosis to prevent colorectal cancer. <i>JCI Insight</i> , 2020, 5, .	2.3	125
33	Chronic TLR Stimulation Controls NLRP3 Inflammasome Activation through IL-10 Mediated Regulation of NLRP3 Expression and Caspase-8 Activation. <i>Scientific Reports</i> , 2015, 5, 14488.	1.6	120
34	Cutting Edge: Proteolytic Inactivation of Poly(ADP-Ribose) Polymerase 1 by the Nlrp3 and Nlrc4 Inflammasomes. <i>Journal of Immunology</i> , 2010, 185, 3127-3130.	0.4	114
35	The inflammasome adaptor ASC regulates the function of adaptive immune cells by controlling Dock2-mediated Rac activation and actin polymerization. <i>Nature Immunology</i> , 2011, 12, 1010-1016.	7.0	101
36	The Z $\Delta$ 2 domain of ZBP1 is a molecular switch regulating influenza-induced PANoptosis and perinatal lethality during development. <i>Journal of Biological Chemistry</i> , 2020, 295, 8325-8330.	1.6	99

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37	Inflammatory Cell Death, PANoptosis, Mediated by Cytokines in Diverse Cancer Lineages Inhibits Tumor Growth. <i>ImmunoHorizons</i> , 2021, 5, 568-580.	0.8	88
38	Role of the Nlrp3 Inflammasome in Microbial Infection. <i>Frontiers in Microbiology</i> , 2011, 2, 12.	1.5	87
39	Role of type I interferons in inflammasome activation, cell death, and disease during microbial infection. <i>Frontiers in Cellular and Infection Microbiology</i> , 2013, 3, 77.	1.8	84
40	ZBP1-dependent inflammatory cell death, PANoptosis, and cytokine storm disrupt IFN therapeutic efficacy during coronavirus infection. <i>Science Immunology</i> , 2022, 7, eabo6294.	5.6	82
41	Galactosaminogalactan activates the inflammasome to provide host protection. <i>Nature</i> , 2020, 588, 688-692.	13.7	78
42	Cathepsin B modulates lysosomal biogenesis and host defense against <i>Francisella novicida</i> infection. <i>Journal of Experimental Medicine</i> , 2016, 213, 2081-2097.	4.2	72
43	RIPK1 Distinctly Regulates <i>Yersinia</i> -Induced Inflammatory Cell Death, PANoptosis. <i>ImmunoHorizons</i> , 2020, 4, 789-796.	0.8	69
44	NLRC3 regulates cellular proliferation and apoptosis to attenuate the development of colorectal cancer. <i>Cell Cycle</i> , 2017, 16, 1243-1251.	1.3	60
45	Fungal ligands released by innate immune effectors promote inflammasome activation during <i>Aspergillus fumigatus</i> infection. <i>Nature Microbiology</i> , 2019, 4, 316-327.	5.9	53
46	Osteoclast fusion and bone loss are restricted by interferon inducible guanylate binding proteins. <i>Nature Communications</i> , 2021, 12, 496.	5.8	51
47	IL-10 engages macrophages to shift Th17 cytokine dependency and pathogenicity during T-cell-mediated colitis. <i>Nature Communications</i> , 2015, 6, 6131.	5.8	50
48	The Homologous Putative GTPases Grn1p from Fission Yeast and the Human GNL3L Are Required for Growth and Play a Role in Processing of Nucleolar Pre-rRNA. <i>Molecular Biology of the Cell</i> , 2006, 17, 460-474.	0.9	43
49	PANoptosis components, regulation, and implications. <i>Aging</i> , 2020, 12, 11163-11164.	1.4	40
50	Genetic deficiency of NOD2 confers resistance to invasive aspergillosis. <i>Nature Communications</i> , 2018, 9, 2636.	5.8	38
51	Nuclear Transport of Ras-associated Tumor Suppressor Proteins: Different Transport Receptor Binding Specificities for Arginine-rich Nuclear Targeting Signals. <i>Journal of Molecular Biology</i> , 2007, 367, 1294-1311.	2.0	36
52	Autophagy is redundant for the host defense against systemic <i>Candida albicans</i> infections. <i>European Journal of Clinical Microbiology and Infectious Diseases</i> , 2014, 33, 711-722.	1.3	35
53	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.	1.6	35
54	Role of inflammasomes/pyroptosis and PANoptosis during fungal infection. <i>PLoS Pathogens</i> , 2021, 17, e1009358.	2.1	34

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55	Detrimental Type I Interferon Signaling Dominates Protective AIM2 Inflammasome Responses during <i>Francisella novicida</i> Infection. <i>Cell Reports</i> , 2018, 22, 3168-3174.	2.9	32
56	A comprehensive guide to studying inflammasome activation and cell death. <i>Nature Protocols</i> , 2020, 15, 3284-3333.	5.5	32
57	Critical role of caspase-8-mediated IL-1 signaling in promoting Th2 responses during asthma pathogenesis. <i>Mucosal Immunology</i> , 2017, 10, 128-138.	2.7	24
58	A Novel Lysine-rich Domain and GTP Binding Motifs Regulate the Nucleolar Retention of Human Guanine Nucleotide Binding Protein, GNL3L. <i>Journal of Molecular Biology</i> , 2006, 364, 637-654.	2.0	22
59	Addendum: Defective Dock2 expression in a subset of ASC-deficient mouse lines. <i>Nature Immunology</i> , 2012, 13, 701-702.	7.0	22
60	Murine <i>Borrelia</i> arthritis is highly dependent on ASC and caspase-1, but independent of NLRP3. <i>Arthritis Research and Therapy</i> , 2012, 14, R247.	1.6	20
61	Phosphorylation by MAPK Regulates Simian Immunodeficiency Virus Vpx Protein Nuclear Import and Virus Infectivity. <i>Journal of Biological Chemistry</i> , 2005, 280, 8553-8563.	1.6	19
62	The Absence of NOD1 Enhances Killing of <i>Aspergillus fumigatus</i> Through Modulation of Dectin-1 Expression. <i>Frontiers in Immunology</i> , 2017, 8, 1777.	2.2	17
63	A MyD88/IL1R Axis Regulates PD-1 Expression on Tumor-Associated Macrophages and Sustains Their Immunosuppressive Function in Melanoma. <i>Cancer Research</i> , 2021, 81, 2358-2372.	0.4	16
64	Simian Immunodeficiency Virus Vpx Is Imported into the Nucleus via Importin Alpha-Dependent and -Independent Pathways. <i>Journal of Virology</i> , 2006, 80, 526-536.	1.5	15
65	Nuclear Export of Simian Immunodeficiency Virus Vpx Protein. <i>Journal of Virology</i> , 2006, 80, 12271-12282.	1.5	13
66	RIPK3 Promotes <i>Mefv</i> Expression and Pyrin Inflammasome Activation via Modulation of mTOR Signaling. <i>Journal of Immunology</i> , 2020, 205, 2778-2785.	0.4	13
67	GNL3L Is a Nucleo-Cytoplasmic Shuttling Protein: Role in Cell Cycle Regulation. <i>PLoS ONE</i> , 2015, 10, e0135845.	1.1	12
68	Hierarchical Cell Death Program Disrupts the Intracellular Niche Required for <i>Burkholderia thailandensis</i> Pathogenesis. <i>MBio</i> , 2021, 12, e0105921.	1.8	12
69	Signals and Pathways Regulating Nucleolar Retention of Novel Putative Nucleolar GTPase NGP-1(GNL-2). <i>Biochemistry</i> , 2011, 50, 4521-4536.	1.2	7
70	Food for Trainingâ€”Western Diet and Inflammatory Memory. <i>Cell Metabolism</i> , 2018, 27, 481-482.	7.2	3
71	TLR and IKK Complexâ€”Mediated Innate Immune Signaling Inhibits Stress Granule Assembly. <i>Journal of Immunology</i> , 2021, 207, 115-124.	0.4	2