

# Vijay A Rathinam

## List of Publications by Citations

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44  
papers

8,279  
citations

29  
h-index

46  
g-index

46  
ext. papers

9,849  
ext. citations

18.3  
avg, IF

6.19  
L-index

#	Paper	IF	Citations
44	Autophagy proteins regulate innate immune responses by inhibiting the release of mitochondrial DNA mediated by the NALP3 inflammasome. <i>Nature Immunology</i> , <b>2011</b> , 12, 222-30	19.1	1959
43	The AIM2 inflammasome is essential for host defense against cytosolic bacteria and DNA viruses. <i>Nature Immunology</i> , <b>2010</b> , 11, 395-402	19.1	944
42	Regulation of inflammasome signaling. <i>Nature Immunology</i> , <b>2012</b> , 13, 333-42	19.1	674
41	TRIF licenses caspase-11-dependent NLRP3 inflammasome activation by gram-negative bacteria. <i>Cell</i> , <b>2012</b> , 150, 606-19	56.2	527
40	Inflammasome Complexes: Emerging Mechanisms and Effector Functions. <i>Cell</i> , <b>2016</b> , 165, 792-800	56.2	450
39	Nitric oxide controls the immunopathology of tuberculosis by inhibiting NLRP3 inflammasome-dependent processing of IL-1 $\beta$ . <i>Nature Immunology</i> , <b>2013</b> , 14, 52-60	19.1	394
38	Structures of the HIN domain:DNA complexes reveal ligand binding and activation mechanisms of the AIM2 inflammasome and IFI16 receptor. <i>Immunity</i> , <b>2012</b> , 36, 561-71	32.3	352
37	Bacterial Outer Membrane Vesicles Mediate Cytosolic Localization of LPS and Caspase-11 Activation. <i>Cell</i> , <b>2016</b> , 165, 1106-1119	56.2	333
36	Mechanisms of inflammasome activation: recent advances and novel insights. <i>Trends in Cell Biology</i> , <b>2015</b> , 25, 308-15	18.3	309
35	<i>Citrobacter rodentium</i> : infection, inflammation and the microbiota. <i>Nature Reviews Microbiology</i> , <b>2014</b> , 12, 612-23	22.2	277
34	The NLRP12 inflammasome recognizes <i>Yersinia pestis</i> . <i>Immunity</i> , <b>2012</b> , 37, 96-107	32.3	237
33	Mouse, but not human STING, binds and signals in response to the vascular disrupting agent 5,6-dimethylxanthenone-4-acetic acid. <i>Journal of Immunology</i> , <b>2013</b> , 190, 5216-25	5.3	237
32	Cutting edge: FAS (CD95) mediates noncanonical IL-1 $\beta$ and IL-18 maturation via caspase-8 in an RIP3-independent manner. <i>Journal of Immunology</i> , <b>2012</b> , 189, 5508-12	5.3	207
31	Innate immunity to intracellular LPS. <i>Nature Immunology</i> , <b>2019</b> , 20, 527-533	19.1	168
30	Activation of caspase-1 by the NLRP3 inflammasome regulates the NADPH oxidase NOX2 to control phagosome function. <i>Nature Immunology</i> , <b>2013</b> , 14, 543-53	19.1	151
29	Dual engagement of the NLRP3 and AIM2 inflammasomes by plasmodium-derived hemozoin and DNA during malaria. <i>Cell Reports</i> , <b>2014</b> , 6, 196-210	10.6	116
28	Gasdermin D Restrains Type I Interferon Response to Cytosolic DNA by Disrupting Ionic Homeostasis. <i>Immunity</i> , <b>2018</b> , 49, 413-426.e5	32.3	112

27	Caspase-8 modulates dectin-1 and complement receptor 3-driven IL-1 $\beta$ production in response to $\beta$ -glucans and the fungal pathogen, <i>Candida albicans</i> . <i>Journal of Immunology</i> , <b>2014</b> , 193, 2519-2530	5.3	89
26	Cutting edge: Mycobacterium tuberculosis but not nonvirulent mycobacteria inhibits IFN- $\gamma$ and AIM2 inflammasome-dependent IL-1 $\beta$ production via its ESX-1 secretion system. <i>Journal of Immunology</i> , <b>2013</b> , 191, 3514-8	5.3	83
25	Bacterial RNA:DNA hybrids are activators of the NLRP3 inflammasome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2014</b> , 111, 7765-70	11.5	72
24	Inflammasome, Inflammation, and Tissue Homeostasis. <i>Trends in Molecular Medicine</i> , <b>2018</b> , 24, 304-318	11.5	69
23	Cytosolic surveillance and antiviral immunity. <i>Current Opinion in Virology</i> , <b>2011</b> , 1, 455-62	7.5	65
22	Aim2 deficiency stimulates the expression of IFN-inducible Irf202, a lupus susceptibility murine gene within the Nba2 autoimmune susceptibility locus. <i>Journal of Immunology</i> , <b>2010</b> , 185, 7385-93	5.3	61
21	RNA and Hemolysin of group B Streptococcus induce interleukin-1 $\beta$ (IL-1 $\beta$ ) by activating NLRP3 inflammasomes in mouse macrophages. <i>Journal of Biological Chemistry</i> , <b>2014</b> , 289, 13701-5	5.4	52
20	Inflammasomes and anti-viral immunity. <i>Journal of Clinical Immunology</i> , <b>2010</b> , 30, 632-7	5.7	39
19	Long Noncoding RNAs in Host-Pathogen Interactions. <i>Trends in Immunology</i> , <b>2019</b> , 40, 492-510	14.4	34
18	Emerging Insights into Noncanonical Inflammasome Recognition of Microbes. <i>Journal of Molecular Biology</i> , <b>2018</b> , 430, 207-216	6.5	32
17	Intracellular immune sensing promotes inflammation via gasdermin D-driven release of a lectin alarmin. <i>Nature Immunology</i> , <b>2021</b> , 22, 154-165	19.1	31
16	Inflammation in mice ectopically expressing human Pyogenic Arthritis, Pyoderma Gangrenosum, and Acne (PAPA) Syndrome-associated PSTPIP1 A230T mutant proteins. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 4594-601	5.4	29
15	Aim2 deficiency in mice suppresses the expression of the inhibitory Fc $\gamma$ RIIB (Fc $\gamma$ RIIB) through the induction of the IFN-inducible p202, a lupus susceptibility protein. <i>Journal of Immunology</i> , <b>2011</b> , 186, 6762-70	5.3	29
14	AIM2 in health and disease: Inflammasome and beyond. <i>Immunological Reviews</i> , <b>2020</b> , 297, 83-95	11.3	27
13	SnapShot: inflammasomes. <i>Cell</i> , <b>2013</b> , 153, 272-272.e1	56.2	16
12	TRIL is involved in cytokine production in the brain following <i>Escherichia coli</i> infection. <i>Journal of Immunology</i> , <b>2014</b> , 193, 1911-9	5.3	15
11	Defective pro-IL-1 $\beta$ responses in macrophages from aged mice. <i>Immunity and Ageing</i> , <b>2012</b> , 9, 27	9.7	13
10	Long Non-coding RNA LincRNA-EPS Inhibits Host Defense Against Infection. <i>Frontiers in Cellular and Infection Microbiology</i> , <b>2019</b> , 9, 481	5.9	11

9	Hierarchical cell-type-specific functions of caspase-11 in LPS shock and antibacterial host defense. <i>Cell Reports</i> , <b>2021</b> , 35, 109012	10.6	9
8	Lipid Peroxidation Adds Fuel to Pyr(optosis). <i>Cell Host and Microbe</i> , <b>2018</b> , 24, 8-9	23.4	8
7	Shiga toxin suppresses noncanonical inflammasome responses to cytosolic LPS. <i>Science Immunology</i> , <b>2020</b> , 5,	28	8
6	GBPs take AIM at Francisella. <i>Nature Immunology</i> , <b>2015</b> , 16, 443-4	19.1	5
5	A TLR4-independent critical role for CD14 in intracellular LPS sensing.. <i>Cell Reports</i> , <b>2022</b> , 39, 110755	10.6	5
4	Transition from identity to bioactivity-guided proteomics for biomarker discovery with focus on the PF2D platform. <i>Proteomics - Clinical Applications</i> , <b>2016</b> , 10, 8-24	3.1	3
3	Bone Marrow Transplantation Rescues Monocyte Recruitment Defect and Improves Cystic Fibrosis in Mice.. <i>Journal of Immunology</i> , <b>2022</b> ,	5.3	2
2	(IR)Factor for NAIP Expression. <i>Cell</i> , <b>2018</b> , 173, 817-819	56.2	1
1	Mechanisms and Consequences of Noncanonical Inflammasome-Mediated Pyroptosis. <i>Journal of Molecular Biology</i> , <b>2021</b> , 434, 167245	6.5	1