

# Shintaro Sato

## List of Publications by Citations

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97  
papers

33,463  
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56  
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100  
g-index

100  
ext. papers

36,251  
ext. citations

13.6  
avg, IF

6.26  
L-index

#	Paper	IF	Citations
97	A Toll-like receptor recognizes bacterial DNA. <i>Nature</i> , <b>2000</b> , 408, 740-5	50.4	5206
96	Differential roles of MDA5 and RIG-I helicases in the recognition of RNA viruses. <i>Nature</i> , <b>2006</b> , 441, 101-5	50.4	2807
95	Role of adaptor TRIF in the MyD88-independent toll-like receptor signaling pathway. <i>Science</i> , <b>2003</b> , 301, 640-3	33.3	2452
94	Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent signaling pathway. <i>Nature Immunology</i> , <b>2002</b> , 3, 196-200	19.1	2003
93	IPS-1, an adaptor triggering RIG-I- and Mda5-mediated type I interferon induction. <i>Nature Immunology</i> , <b>2005</b> , 6, 981-8	19.1	1954
92	Lipocalin 2 mediates an innate immune response to bacterial infection by sequestering iron. <i>Nature</i> , <b>2004</b> , 432, 917-21	50.4	1292
91	Cell type-specific involvement of RIG-I in antiviral response. <i>Immunity</i> , <b>2005</b> , 23, 19-28	32.3	1074
90	Cutting edge: role of Toll-like receptor 1 in mediating immune response to microbial lipoproteins. <i>Journal of Immunology</i> , <b>2002</b> , 169, 10-4	5.3	1071
89	Cutting edge: a novel Toll/IL-1 receptor domain-containing adapter that preferentially activates the IFN-beta promoter in the Toll-like receptor signaling. <i>Journal of Immunology</i> , <b>2002</b> , 169, 6668-72	5.3	1011
88	Lipopolysaccharide stimulates the MyD88-independent pathway and results in activation of IFN-regulatory factor 3 and the expression of a subset of lipopolysaccharide-inducible genes. <i>Journal of Immunology</i> , <b>2001</b> , 167, 5887-94	5.3	876
87	TRAM is specifically involved in the Toll-like receptor 4-mediated MyD88-independent signaling pathway. <i>Nature Immunology</i> , <b>2003</b> , 4, 1144-50	19.1	818
86	Essential role for TIRAP in activation of the signalling cascade shared by TLR2 and TLR4. <i>Nature</i> , <b>2002</b> , 420, 324-9	50.4	809
85	Interferon-alpha induction through Toll-like receptors involves a direct interaction of IRF7 with MyD88 and TRAF6. <i>Nature Immunology</i> , <b>2004</b> , 5, 1061-8	19.1	790
84	Essential function for the kinase TAK1 in innate and adaptive immune responses. <i>Nature Immunology</i> , <b>2005</b> , 6, 1087-95	19.1	734
83	Cutting edge: endotoxin tolerance in mouse peritoneal macrophages correlates with down-regulation of surface toll-like receptor 4 expression. <i>Journal of Immunology</i> , <b>2000</b> , 164, 3476-9	5.3	631
82	A Toll-like receptor-independent antiviral response induced by double-stranded B-form DNA. <i>Nature Immunology</i> , <b>2006</b> , 7, 40-8	19.1	625
81	Regulation of humoral and cellular gut immunity by lamina propria dendritic cells expressing Toll-like receptor 5. <i>Nature Immunology</i> , <b>2008</b> , 9, 769-76	19.1	606

80	Toll/IL-1 receptor domain-containing adaptor inducing IFN-beta (TRIF) associates with TNF receptor-associated factor 6 and TANK-binding kinase 1, and activates two distinct transcription factors, NF-kappa B and IFN-regulatory factor-3, in the Toll-like receptor signaling. <i>Journal of Immunology</i> , <b>2003</b> , 171, 4304-10	5.3	565
79	SOCS-1 participates in negative regulation of LPS responses. <i>Immunity</i> , <b>2002</b> , 17, 677-87	32.3	533
78	Toll-like receptor 9 mediates innate immune activation by the malaria pigment hemozoin. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 201, 19-25	16.6	479
77	The roles of two IkappaB kinase-related kinases in lipopolysaccharide and double stranded RNA signaling and viral infection. <i>Journal of Experimental Medicine</i> , <b>2004</b> , 199, 1641-50	16.6	469
76	LGP2 is a positive regulator of RIG-I- and MDA5-mediated antiviral responses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 1512-7	11.5	464
75	Essential role of IPS-1 in innate immune responses against RNA viruses. <i>Journal of Experimental Medicine</i> , <b>2006</b> , 203, 1795-803	16.6	407
74	Interleukin-1 receptor-associated kinase-1 plays an essential role for Toll-like receptor (TLR)7- and TLR9-mediated interferon- $\alpha$ induction. <i>Journal of Experimental Medicine</i> , <b>2005</b> , 201, 915-23	16.6	397
73	Regulation of Toll/IL-1-receptor-mediated gene expression by the inducible nuclear protein IkappaBzeta. <i>Nature</i> , <b>2004</b> , 430, 218-22	50.4	392
72	Innate lymphoid cells regulate intestinal epithelial cell glycosylation. <i>Science</i> , <b>2014</b> , 345, 1254009	33.3	351
71	Synergy and cross-tolerance between toll-like receptor (TLR) 2- and TLR4-mediated signaling pathways. <i>Journal of Immunology</i> , <b>2000</b> , 165, 7096-101	5.3	337
70	Sequential control of Toll-like receptor-dependent responses by IRAK1 and IRAK2. <i>Nature Immunology</i> , <b>2008</b> , 9, 684-91	19.1	315
69	Key function for the Ubc13 E2 ubiquitin-conjugating enzyme in immune receptor signaling. <i>Nature Immunology</i> , <b>2006</b> , 7, 962-70	19.1	222
68	Toll-like receptors and their signaling mechanisms. <i>Scandinavian Journal of Infectious Diseases</i> , <b>2003</b> , 35, 555-62		213
67	Plexin-A1 and its interaction with DAP12 in immune responses and bone homeostasis. <i>Nature Cell Biology</i> , <b>2006</b> , 8, 615-22	23.4	205
66	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. <i>Nature Communications</i> , <b>2012</b> , 3, 1034	17.4	190
65	Indigenous opportunistic bacteria inhabit mammalian gut-associated lymphoid tissues and share a mucosal antibody-mediated symbiosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2010</b> , 107, 7419-24	11.5	169
64	Roles of caspase-8 and caspase-10 in innate immune responses to double-stranded RNA. <i>Journal of Immunology</i> , <b>2006</b> , 176, 4520-4	5.3	150
63	Essential role of IRAK-4 protein and its kinase activity in Toll-like receptor-mediated immune responses but not in TCR signaling. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 1013-24	16.6	140

62	A variety of microbial components induce tolerance to lipopolysaccharide by differentially affecting MyD88-dependent and -independent pathways. <i>International Immunology</i> , <b>2002</b> , 14, 783-91	4.9	138
61	Toll-like receptor 3 and STAT-1 contribute to double-stranded RNA+ interferon-gamma-induced apoptosis in primary pancreatic beta-cells. <i>Journal of Biological Chemistry</i> , <b>2005</b> , 280, 33984-91	5.4	131
60	TAK1 is a master regulator of epidermal homeostasis involving skin inflammation and apoptosis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 19610-7	5.4	126
59	Pathological role of Toll-like receptor signaling in cerebral malaria. <i>International Immunology</i> , <b>2007</b> , 19, 67-79	4.9	123
58	Lipocalin 2-dependent inhibition of mycobacterial growth in alveolar epithelium. <i>Journal of Immunology</i> , <b>2008</b> , 181, 8521-7	5.3	109
57	TAK1 is indispensable for development of T cells and prevention of colitis by the generation of regulatory T cells. <i>International Immunology</i> , <b>2006</b> , 18, 1405-11	4.9	107
56	Nanogel-based PspA intranasal vaccine prevents invasive disease and nasal colonization by <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , <b>2013</b> , 81, 1625-34	3.7	105
55	Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome. <i>Nature Communications</i> , <b>2014</b> , 5, 3492	17.4	96
54	Interleukin-1 (IL-1)-induced TAK1-dependent Versus MEKK3-dependent NFkappaB activation pathways bifurcate at IL-1 receptor-associated kinase modification. <i>Journal of Biological Chemistry</i> , <b>2007</b> , 282, 6075-89	5.4	92
53	Generation of colonic IgA-secreting cells in the caecal patch. <i>Nature Communications</i> , <b>2014</b> , 5, 3704	17.4	88
52	TLR8-mediated NF-kappaB and JNK activation are TAK1-independent and MEKK3-dependent. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 21013-21021	5.4	76
51	Cutting edge: Role of TANK-binding kinase 1 and inducible IkappaB kinase in IFN responses against viruses in innate immune cells. <i>Journal of Immunology</i> , <b>2006</b> , 177, 5785-9	5.3	75
50	The airway antigen sampling system: respiratory M cells as an alternative gateway for inhaled antigens. <i>Journal of Immunology</i> , <b>2011</b> , 186, 4253-62	5.3	74
49	Cutting Edge: Pivotal function of Ubc13 in thymocyte TCR signaling. <i>Journal of Immunology</i> , <b>2006</b> , 177, 7520-4	5.3	72
48	Leishmania-induced IRAK-1 inactivation is mediated by SHP-1 interacting with an evolutionarily conserved KTIM motif. <i>PLoS Neglected Tropical Diseases</i> , <b>2008</b> , 2, e305	4.8	72
47	An essential role for the N-terminal fragment of Toll-like receptor 9 in DNA sensing. <i>Nature Communications</i> , <b>2013</b> , 4, 1949	17.4	69
46	Fasting-Refeeding Impacts Immune Cell Dynamics and Mucosal Immune Responses. <i>Cell</i> , <b>2019</b> , 178, 1072-1087	5.1	64
45	The mucosal immune system of the respiratory tract. <i>Current Opinion in Virology</i> , <b>2012</b> , 2, 225-32	7.5	64

44	Id2-, RORgammat-, and LTbetaR-independent initiation of lymphoid organogenesis in ocular immunity. <i>Journal of Experimental Medicine</i> , <b>2009</b> , 206, 2351-64	16.6	61
43	The ectoenzyme E-NPP3 negatively regulates ATP-dependent chronic allergic responses by basophils and mast cells. <i>Immunity</i> , <b>2015</b> , 42, 279-293	32.3	58
42	Intracellular Mycobacterium avium intersect transferrin in the Rab11(+) recycling endocytic pathway and avoid lipocalin 2 trafficking to the lysosomal pathway. <i>Journal of Infectious Diseases</i> , <b>2010</b> , 201, 783-92	7	56
41	Enhanced TLR-mediated NF-IL6 dependent gene expression by Trib1 deficiency. <i>Journal of Experimental Medicine</i> , <b>2007</b> , 204, 2233-9	16.6	56
40	A Refined Culture System for Human Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Organoids. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 314-328	8	56
39	The enzyme Cyp26b1 mediates inhibition of mast cell activation by fibroblasts to maintain skin-barrier homeostasis. <i>Immunity</i> , <b>2014</b> , 40, 530-41	32.3	54
38	Transforming growth factor-beta-activated kinase 1 is essential for differentiation and the prevention of apoptosis in epidermis. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 22013-22020	5.4	47
37	Lipocalin 2 bolsters innate and adaptive immune responses to blood-stage malaria infection by reinforcing host iron metabolism. <i>Cell Host and Microbe</i> , <b>2012</b> , 12, 705-16	23.4	42
36	Mucosal Immunosenescence in the Gastrointestinal Tract: A Mini-Review. <i>Gerontology</i> , <b>2015</b> , 61, 336-42	5.5	38
35	Blockade of transforming growth factor-beta-activated kinase 1 activity enhances TRAIL-induced apoptosis through activation of a caspase cascade. <i>Molecular Cancer Therapeutics</i> , <b>2006</b> , 5, 2970-6	6.1	37
34	Lymphoid tissue-resident Alcaligenes LPS induces IgA production without excessive inflammatory responses via weak TLR4 agonist activity. <i>Mucosal Immunology</i> , <b>2018</b> , 11, 693-702	9.2	36
33	Eosinophil depletion suppresses radiation-induced small intestinal fibrosis. <i>Science Translational Medicine</i> , <b>2018</b> , 10,	17.5	32
32	Potent antimycobacterial activity of mouse secretory leukocyte protease inhibitor. <i>Journal of Immunology</i> , <b>2008</b> , 180, 4032-9	5.3	32
31	Vaginal memory T cells induced by intranasal vaccination are critical for protective T cell recruitment and prevention of genital HSV-2 disease. <i>Journal of Virology</i> , <b>2014</b> , 88, 13699-708	6.6	29
30	Human Norovirus Propagation in Human Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Cells. <i>Cellular and Molecular Gastroenterology and Hepatology</i> , <b>2019</b> , 7, 686-688.e5	7.9	29
29	TAK1 is a component of the Epstein-Barr virus LMP1 complex and is essential for activation of JNK but not of NF-kappaB. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 7863-72	5.4	28
28	Allograft inflammatory factor 1 is a regulator of transcytosis in M cells. <i>Nature Communications</i> , <b>2017</b> , 8, 14509	17.4	26
27	Reciprocal Inflammatory Signaling Between Intestinal Epithelial Cells and Adipocytes in the Absence of Immune Cells. <i>EBioMedicine</i> , <b>2017</b> , 23, 34-45	8.8	26

26	IL-10-producing CD4(+) T cells negatively regulate fucosylation of epithelial cells in the gut. <i>Scientific Reports</i> , <b>2015</b> , 5, 15918	4.9	22
25	HTLV-1 Tax-induced NFkappaB activation is independent of Lys-63-linked-type polyubiquitination. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 357, 225-30	3.4	22
24	Sox8 is essential for M cell maturation to accelerate IgA response at the early stage after weaning in mice. <i>Journal of Experimental Medicine</i> , <b>2019</b> , 216, 831-846	16.6	21
23	Loss of lymph node fibroblastic reticular cells and high endothelial cells is associated with humoral immunodeficiency in mouse graft-versus-host disease. <i>Journal of Immunology</i> , <b>2015</b> , 194, 398-406	5.3	20
22	Metagenome Data on Intestinal Phage-Bacteria Associations Aids the Development of Phage Therapy against Pathobionts. <i>Cell Host and Microbe</i> , <b>2020</b> , 28, 380-389.e9	23.4	19
21	Osteoprotegerin-dependent M cell self-regulation balances gut infection and immunity. <i>Nature Communications</i> , <b>2020</b> , 11, 234	17.4	19
20	Gut bacteria identified in colorectal cancer patients promote tumourigenesis via butyrate secretion. <i>Nature Communications</i> , <b>2021</b> , 12, 5674	17.4	19
19	Mucosal adjuvants for vaccines to control upper respiratory infections in the elderly. <i>Experimental Gerontology</i> , <b>2014</b> , 54, 21-6	4.5	18
18	Regulation and function of the cytosolic viral RNA sensor RIG-I in pancreatic beta cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , <b>2009</b> , 1793, 1768-75	4.9	15
17	Runx2-I isoform contributes to fetal bone formation even in the absence of specific N-terminal amino acids. <i>PLoS ONE</i> , <b>2014</b> , 9, e108294	3.7	14
16	Intravesicular Acidification Regulates Lipopolysaccharide Inflammation and Tolerance through TLR4 Trafficking. <i>Journal of Immunology</i> , <b>2018</b> , 200, 2798-2808	5.3	13
15	Inflammatory mediator TAK1 regulates hair follicle morphogenesis and anagen induction shown by using keratinocyte-specific TAK1-deficient mice. <i>PLoS ONE</i> , <b>2010</b> , 5, e11275	3.7	13
14	Alcohol abrogates human norovirus infectivity in a pH-dependent manner. <i>Scientific Reports</i> , <b>2020</b> , 10, 15878	4.9	10
13	Central Role of Core Binding Factor $\beta$ in Mucosa-Associated Lymphoid Tissue Organogenesis in Mouse. <i>PLoS ONE</i> , <b>2015</b> , 10, e0127460	3.7	9
12	Identification and Analysis of Natural Killer Cells in Murine Nasal Passages. <i>PLoS ONE</i> , <b>2015</b> , 10, e0142929	3.7	7
11	Critical role of dendritic cells in T cell retention in the interfollicular region of Peyer's patches. <i>Journal of Immunology</i> , <b>2013</b> , 191, 942-8	5.3	7
10	The gut microbiota induces Peyer's-patch-dependent secretion of maternal IgA into milk. <i>Cell Reports</i> , <b>2021</b> , 36, 109655	10.6	7
9	A role for the CCR5-CCL5 interaction in the preferential migration of HSV-2-specific effector cells to the vaginal mucosa upon nasal immunization. <i>Mucosal Immunology</i> , <b>2019</b> , 12, 1391-1403	9.2	4

8	A Heterodimeric Antibody Fragment for Passive Immunotherapy Against Norovirus Infection. <i>Journal of Infectious Diseases</i> , <b>2020</b> , 222, 470-478	7	2
7	Persistent colonization of non-lymphoid tissue-resident macrophages by <i>Stenotrophomonas maltophilia</i> . <i>International Immunology</i> , <b>2020</b> , 32, 133-141	4.9	2
6	Peyer's patches play a protective role in nonsteroidal anti-inflammatory drug-induced enteropathy in mice. <i>Inflammatory Bowel Diseases</i> , <b>2014</b> , 20, 790-9	4.5	2
5	SARS-CoV-2 infection triggers paracrine senescence and leads to a sustained senescence-associated inflammatory response. <i>Nature Aging</i> ,		1
4	Development of Antibody-Fragment-Producing Rice for Neutralization of Human Norovirus. <i>Frontiers in Plant Science</i> , <b>2021</b> , 12, 639953	6.2	1
3	Comparison of gene expression and activation of transcription factors in organoid-derived monolayer intestinal epithelial cells and organoids. <i>Bioscience, Biotechnology and Biochemistry</i> , <b>2021</b> , 85, 2137-2144	2.1	1
2	Genesis of tear duct-associated lymphoid tissue is independent of Id2, ROR $\gamma$ but requires Cbfa transcriptional regulator. <i>FASEB Journal</i> , <b>2008</b> , 22, 845.1	0.9	
1	M Cell-Targeted Vaccines <b>2020</b> , 487-498		