

# Shintaro Sato

## List of Publications by Year in descending order

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98  
papers

38,503  
citations

20817  
60  
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34986  
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100  
all docs

100  
docs citations

100  
times ranked

33173  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal commensal microbiota and cytokines regulate Fut2 <sup>+/+</sup> Paneth cells for gut defense. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	26
2	SARS-CoV-2 infection triggers paracrine senescence and leads to a sustained senescence-associated inflammatory response. Nature Aging, 2022, 2, 115-124.	11.6	43
3	Development of Antibody-Fragmentâ€‘Producing Rice for Neutralization of Human Norovirus. Frontiers in Plant Science, 2021, 12, 639953.	3.6	6
4	Comparison of gene expression and activation of transcription factors in organoid-derived monolayer intestinal epithelial cells and organoids. Bioscience, Biotechnology and Biochemistry, 2021, 85, 2137-2144.	1.3	6
5	Gut bacteria identified in colorectal cancer patients promote tumourigenesis via butyrate secretion. Nature Communications, 2021, 12, 5674.	12.8	95
6	The gut microbiota induces Peyerâ€™s-patch-dependent secretion of maternal IgA into milk. Cell Reports, 2021, 36, 109655.	6.4	24
7	Persistent colonization of non-lymphoid tissue-resident macrophages by <i>Stenotrophomonas maltophilia</i> . International Immunology, 2020, 32, 133-141.	4.0	6
8	M Cell-Targeted Vaccines. , 2020, , 487-498.		1
9	Alcohol abrogates human norovirus infectivity in a pH-dependent manner. Scientific Reports, 2020, 10, 15878.	3.3	25
10	A Heterodimeric Antibody Fragment for Passive Immunotherapy Against Norovirus Infection. Journal of Infectious Diseases, 2020, 222, 470-478.	4.0	5
11	Metagenome Data on Intestinal Phage-Bacteria Associations Aids the Development of Phage Therapy against Pathobionts. Cell Host and Microbe, 2020, 28, 380-389.e9.	11.0	51
12	Osteoprotegerin-dependent M cell self-regulation balances gut infection and immunity. Nature Communications, 2020, 11, 234.	12.8	34
13	Fasting-Refeeding Impacts Immune Cell Dynamics and Mucosal Immune Responses. Cell, 2019, 178, 1072-1087.e14.	28.9	119
14	A role for the CCR5â€“CCL5 interaction in the preferential migration of HSV-2-specific effector cells to the vaginal mucosa upon nasal immunization. Mucosal Immunology, 2019, 12, 1391-1403.	6.0	7
15	Sox8 is essential for M cell maturation to accelerate IgA response at the early stage after weaning in mice. Journal of Experimental Medicine, 2019, 216, 831-846.	8.5	47
16	Human Norovirus Propagation in Human Induced Pluripotent Stem Cellâ€“Derived Intestinal Epithelial Cells. Cellular and Molecular Gastroenterology and Hepatology, 2019, 7, 686-688.e5.	4.5	48
17	Eosinophil depletion suppresses radiation-induced small intestinal fibrosis. Science Translational Medicine, 2018, 10, .	12.4	58
18	Lymphoid tissue-resident Alcaligenes LPS induces IgA production without excessive inflammatory responses via weak TLR4 agonist activity. Mucosal Immunology, 2018, 11, 693-702.	6.0	65

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19	Intravesicular Acidification Regulates Lipopolysaccharide Inflammation and Tolerance through TLR4 Trafficking. <i>Journal of Immunology</i> , 2018, 200, 2798-2808.	0.8	19
20	A Refined Culture System for Human Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Organoids. <i>Stem Cell Reports</i> , 2018, 10, 314-328.	4.8	83
21	Allograft inflammatory factor 1 is a regulator of transcytosis in M cells. <i>Nature Communications</i> , 2017, 8, 14509.	12.8	39
22	Reciprocal Inflammatory Signaling Between Intestinal Epithelial Cells and Adipocytes in the Absence of Immune Cells. <i>EBioMedicine</i> , 2017, 23, 34-45.	6.1	45
23	IL-10-producing CD4+ T cells negatively regulate fucosylation of epithelial cells in the gut. <i>Scientific Reports</i> , 2015, 5, 15918.	3.3	26
24	Central Role of Core Binding Factor $\beta 2$ in Mucosa-Associated Lymphoid Tissue Organogenesis in Mouse. <i>PLoS ONE</i> , 2015, 10, e0127460.	2.5	10
25	Identification and Analysis of Natural Killer Cells in Murine Nasal Passages. <i>PLoS ONE</i> , 2015, 10, e0142920.	2.5	7
26	Mucosal Immunosenescence in the Gastrointestinal Tract: A Mini-Review. <i>Gerontology</i> , 2015, 61, 336-342.	2.8	46
27	The Ectoenzyme E-NPP3 Negatively Regulates ATP-Dependent Chronic Allergic Responses by Basophils and Mast Cells. <i>Immunity</i> , 2015, 42, 279-293.	14.3	70
28	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> , 2015, 194, 398-406.	0.8	27
29	Runx2-I Isoform Contributes to Fetal Bone Formation Even in the Absence of Specific N-Terminal Amino Acids. <i>PLoS ONE</i> , 2014, 9, e108294.	2.5	15
30	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> , 2014, 88, 13699-13708.	3.4	34
31	Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome. <i>Nature Communications</i> , 2014, 5, 3492.	12.8	119
32	Peyer's Patches Play a Protective Role in Nonsteroidal Anti-inflammatory Drug-induced Enteropathy in Mice. <i>Inflammatory Bowel Diseases</i> , 2014, 20, 790-799.	1.9	3
33	The Enzyme Cyp26b1 Mediates Inhibition of Mast Cell Activation by Fibroblasts to Maintain Skin-Barrier Homeostasis. <i>Immunity</i> , 2014, 40, 530-541.	14.3	81
34	Mucosal adjuvants for vaccines to control upper respiratory infections in the elderly. <i>Experimental Gerontology</i> , 2014, 54, 21-26.	2.8	24
35	Innate lymphoid cells regulate intestinal epithelial cell glycosylation. <i>Science</i> , 2014, 345, 1254009.	12.6	450
36	Generation of colonic IgA-secreting cells in the caecal patch. <i>Nature Communications</i> , 2014, 5, 3704.	12.8	121

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37	An essential role for the N-terminal fragment of Toll-like receptor 9 in DNA sensing. <i>Nature Communications</i> , 2013, 4, 1949.	12.8	74
38	Critical Role of Dendritic Cells in T Cell Retention in the Interfollicular Region of Peyer's Patches. <i>Journal of Immunology</i> , 2013, 191, 942-948.	0.8	7
39	Nanogel-Based PspA Intranasal Vaccine Prevents Invasive Disease and Nasal Colonization by <i>Streptococcus pneumoniae</i> . <i>Infection and Immunity</i> , 2013, 81, 1625-1634.	2.2	126
40	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. <i>Nature Communications</i> , 2012, 3, 1034.	12.8	243
41	The mucosal immune system of the respiratory tract. <i>Current Opinion in Virology</i> , 2012, 2, 225-232.	5.4	82
42	Lipocalin 2 Bolsters Innate and Adaptive Immune Responses to Blood-Stage Malaria Infection by Reinforcing Host Iron Metabolism. <i>Cell Host and Microbe</i> , 2012, 12, 705-716.	11.0	50
43	The Airway Antigen Sampling System: Respiratory M Cells as an Alternative Gateway for Inhaled Antigens. <i>Journal of Immunology</i> , 2011, 186, 4253-4262.	0.8	91
44	Intracellular <i>Mycobacterium avium</i> Intersect Transferrin in the Rab11 Recycling Endocytic Pathway and Avoid Lipocalin 2 Trafficking to the Lysosomal Pathway. <i>Journal of Infectious Diseases</i> , 2010, 201, 783-792.	4.0	64
45	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> , 2010, 107, 1512-1517.	7.1	540
46	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> , 2010, 107, 7419-7424.	7.1	197
47	Inflammatory Mediator TAK1 Regulates Hair Follicle Morphogenesis and Anagen Induction Shown by Using Keratinocyte-Specific TAK1-Deficient Mice. <i>PLoS ONE</i> , 2010, 5, e11275.	2.5	15
48	Id2-, ROR $\gamma$ t-, and LT $\beta$ R-independent initiation of lymphoid organogenesis in ocular immunity. <i>Journal of Experimental Medicine</i> , 2009, 206, 2351-2364.	8.5	66
49	Regulation and function of the cytosolic viral RNA sensor RIG-I in pancreatic beta cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009, 1793, 1768-1775.	4.1	18
50	Sequential control of Toll-like receptor-dependent responses by IRAK1 and IRAK2. <i>Nature Immunology</i> , 2008, 9, 684-691.	14.5	361
51	Regulation of humoral and cellular gut immunity by lamina propria dendritic cells expressing Toll-like receptor 5. <i>Nature Immunology</i> , 2008, 9, 769-776.	14.5	668
52	Potent Antimycobacterial Activity of Mouse Secretory Leukocyte Protease Inhibitor. <i>Journal of Immunology</i> , 2008, 180, 4032-4039.	0.8	33
53	Lipocalin 2-Dependent Inhibition of Mycobacterial Growth in Alveolar Epithelium. <i>Journal of Immunology</i> , 2008, 181, 8521-8527.	0.8	127
54	Leishmania-Induced IRAK-1 Inactivation Is Mediated by SHP-1 Interacting with an Evolutionarily Conserved KTIM Motif. <i>PLoS Neglected Tropical Diseases</i> , 2008, 2, e305.	3.0	88

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55	Genesis of tear duct-associated lymphoid tissue is independent of Id2, ROR $\gamma$ t but requires Cbfr2 transcriptional regulator. FASEB Journal, 2008, 22, 845.1.	0.5	0
56	Enhanced TLR-mediated NF-IL6-dependent gene expression by Trib1 deficiency. Journal of Experimental Medicine, 2007, 204, 2233-2239.	8.5	73
57	Essential role of IRAK-4 protein and its kinase activity in Toll-like receptor-mediated immune responses but not in TCR signaling. Journal of Experimental Medicine, 2007, 204, 1013-1024.	8.5	158
58	Interleukin-1 (IL-1)-induced TAK1-dependent Versus MEKK3-dependent NF $\kappa$ B Activation Pathways Bifurcate at IL-1 Receptor-associated Kinase Modification. Journal of Biological Chemistry, 2007, 282, 6075-6089.	3.4	101
59	HTLV-1 Tax-induced NF $\kappa$ B activation is independent of Lys-63-linked-type polyubiquitination. Biochemical and Biophysical Research Communications, 2007, 357, 225-230.	2.1	22
60	Pathological role of Toll-like receptor signaling in cerebral malaria. International Immunology, 2006, 19, 67-79.	4.0	144
61	Plexin-A1 and its interaction with DAP12 in immune responses and bone homeostasis. Nature Cell Biology, 2006, 8, 615-622.	10.3	229
62	A Toll-like receptor-independent antiviral response induced by double-stranded B-form DNA. Nature Immunology, 2006, 7, 40-48.	14.5	704
63	Key function for the Ubc13 E2 ubiquitin-conjugating enzyme in immune receptor signaling. Nature Immunology, 2006, 7, 962-970.	14.5	249
64	Differential roles of MDA5 and RIG-I helicases in the recognition of RNA viruses. Nature, 2006, 441, 101-105.	27.8	3,292
65	Blockade of transforming growth factor- $\beta$ -activated kinase 1 activity enhances TRAIL-induced apoptosis through activation of a caspase cascade. Molecular Cancer Therapeutics, 2006, 5, 2970-2976.	4.1	41
66	TAK1 is indispensable for development of T cells and prevention of colitis by the generation of regulatory T cells. International Immunology, 2006, 18, 1405-1411.	4.0	110
67	Essential role of IPS-1 in innate immune responses against RNA viruses. Journal of Experimental Medicine, 2006, 203, 1795-1803.	8.5	438
68	Cutting Edge: Role of TANK-Binding Kinase 1 and Inducible I $\kappa$ B Kinase in IFN Responses against Viruses in Innate Immune Cells. Journal of Immunology, 2006, 177, 5785-5789.	0.8	79
69	Cutting Edge: Roles of Caspase-8 and Caspase-10 in Innate Immune Responses to Double-Stranded RNA. Journal of Immunology, 2006, 176, 4520-4524.	0.8	161
70	TLR8-mediated NF- $\kappa$ B and JNK Activation Are TAK1-independent and MEKK3-dependent. Journal of Biological Chemistry, 2006, 281, 21013-21021.	3.4	84
71	Cutting Edge: Pivotal Function of Ubc13 in Thymocyte TCR Signaling. Journal of Immunology, 2006, 177, 7520-7524.	0.8	76
72	TAK1 Is a Component of the Epstein-Barr Virus LMP1 Complex and Is Essential for Activation of JNK but Not of NF- $\kappa$ B. Journal of Biological Chemistry, 2006, 281, 7863-7872.	3.4	34

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73	TAK1 Is a Master Regulator of Epidermal Homeostasis Involving Skin Inflammation and Apoptosis. Journal of Biological Chemistry, 2006, 281, 19610-19617.	3.4	136
74	Transforming Growth Factor- $\beta$ -activated Kinase 1 Is Essential for Differentiation and the Prevention of Apoptosis in Epidermis. Journal of Biological Chemistry, 2006, 281, 22013-22020.	3.4	52
75	IPS-1, an adaptor triggering RIG-I and Mda5-mediated type I interferon induction. Nature Immunology, 2005, 6, 981-988.	14.5	2,254
76	Essential function for the kinase TAK1 in innate and adaptive immune responses. Nature Immunology, 2005, 6, 1087-1095.	14.5	839
77	Interleukin-1 receptor-associated kinase-1 plays an essential role for Toll-like receptor (TLR)7- and TLR9-mediated interferon- $\alpha$ induction. Journal of Experimental Medicine, 2005, 201, 915-923.	8.5	446
78	Toll-like Receptor 3 and STAT-1 Contribute to Double-stranded RNA+ Interferon- $\beta$ -induced Apoptosis in Primary Pancreatic $\beta$ -Cells. Journal of Biological Chemistry, 2005, 280, 33984-33991.	3.4	140
79	Cell Type-Specific Involvement of RIG-I in Antiviral Response. Immunity, 2005, 23, 19-28.	14.3	1,221
80	Toll-like receptor 9 mediates innate immune activation by the malaria pigment hemozoin. Journal of Experimental Medicine, 2005, 201, 19-25.	8.5	537
81	The Roles of Two $\lambda$ B Kinase-related Kinases in Lipopolysaccharide and Double Stranded RNA Signaling and Viral Infection. Journal of Experimental Medicine, 2004, 199, 1641-1650.	8.5	536
82	Interferon- $\alpha$ induction through Toll-like receptors involves a direct interaction of IRF7 with MyD88 and TRAF6. Nature Immunology, 2004, 5, 1061-1068.	14.5	894
83	Regulation of Toll/IL-1-receptor-mediated gene expression by the inducible nuclear protein $\lambda$ B $\lambda$ . Nature, 2004, 430, 218-222.	27.8	445
84	Lipocalin 2 mediates an innate immune response to bacterial infection by sequestering iron. Nature, 2004, 432, 917-921.	27.8	1,540
85	TRAM is specifically involved in the Toll-like receptor 4-mediated MyD88-independent signaling pathway. Nature Immunology, 2003, 4, 1144-1150.	14.5	919
86	Role of Adaptor TRIF in the MyD88-Independent Toll-Like Receptor Signaling Pathway. Science, 2003, 301, 640-643.	12.6	2,808
87	Toll-like Receptors and Their Signaling Mechanisms. Scandinavian Journal of Infectious Diseases, 2003, 35, 555-562.	1.5	237
88	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- $\lambda$ B and IFN-Regulatory Factor-3, in the Toll-Like Receptor Signaling. Journal of Immunology, 2003, 171, 4304-4310.	0.8	629
89	A variety of microbial components induce tolerance to lipopolysaccharide by differentially affecting MyD88-dependent and -independent pathways. International Immunology, 2002, 14, 783-791.	4.0	153
90	SOCS-1 Participates in Negative Regulation of LPS Responses. Immunity, 2002, 17, 677-687.	14.3	583

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91	Cutting Edge: A Novel Toll/IL-1 Receptor Domain-Containing Adapter That Preferentially Activates the IFN- $\gamma$ Promoter in the Toll-Like Receptor Signaling. Journal of Immunology, 2002, 169, 6668-6672.	0.8	1,123
92	Cutting Edge: Role of Toll-Like Receptor 1 in Mediating Immune Response to Microbial Lipoproteins. Journal of Immunology, 2002, 169, 10-14.	0.8	1,186
93	Essential role for TIRAP in activation of the signalling cascade shared by TLR2 and TLR4. Nature, 2002, 420, 324-329.	27.8	910
94	Small anti-viral compounds activate immune cells via the TLR7 MyD88-dependent signaling pathway. Nature Immunology, 2002, 3, 196-200.	14.5	2,290
95	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. Journal of Immunology, 2001, 167, 5887-5894.	0.8	986
96	A Toll-like receptor recognizes bacterial DNA. Nature, 2000, 408, 740-745.	27.8	5,827
97	Cutting Edge: Endotoxin Tolerance in Mouse Peritoneal Macrophages Correlates with Down-Regulation of Surface Toll-Like Receptor 4 Expression. Journal of Immunology, 2000, 164, 3476-3479.	0.8	700
98	Synergy and Cross-Tolerance Between Toll-Like Receptor (TLR) 2- and TLR4-Mediated Signaling Pathways. Journal of Immunology, 2000, 165, 7096-7101.	0.8	367