Shintaro Sato

List of Publications by Year
in descending order

98 papers	38,503 citations	20759 60 h-index	34900 98 g-index
100 all docs	100 docs citations	100 times ranked	33173 citing authors

#	ARTICLE	IF	CITATIONS
1	Intestinal commensal microbiota and cytokines regulate Fut2⁺Paneth cells for gut defense. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	26
2	SARS-CoV-2 infection triggers paracrine senescence and leads to a sustained senescence-associated inflammatory response. Nature Aging, 2022, 2, 115-124.	5.3	43
3	Development of Antibody-Fragmentâ€“Producing Rice for Neutralization of Human Norovirus. Frontiers in Plant Science, 2021, 12, 639953.	1.7	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.	0.6	6
5	Gut bacteria identified in colorectal cancer patients promote tumourigenesis via butyrate secretion. Nature Communications, 2021, 12, 5674.	5.8	95
6	The gut microbiota induces Peyerâ€™s-patch-dependent secretion of maternal IgA into milk. Cell Reports, 2021, 36, 109655.	2.9	24
7	Persistent colonization of non-lymphoid tissue-resident macrophages by <i>Stenotrophomonas maltophilia</i>. International Immunology, 2020, 32, 133-141.	1.8	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.	1.6	25
10	A Heterodimeric Antibody Fragment for Passive Immunotherapy Against Norovirus Infection. Journal of Infectious Diseases, 2020, 222, 470-478.	1.9	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.	5.1	51
12	Osteoprotegerin-dependent M cell self-regulation balances gut infection and immunity. Nature Communications, 2020, 11, 234.	5.8	34
13	Fasting-Refeeding Impacts Immune Cell Dynamics and Mucosal Immune Responses. Cell, 2019, 178, 1072-1087.e14.	13.5	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.	2.7	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.	4.2	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.	2.3	48
17	Eosinophil depletion suppresses radiation-induced small intestinal fibrosis. Science Translational Medicine, 2018, 10, .	5.8	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.	2.7	65

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19	Intravesicular Acidification Regulates Lipopolysaccharide Inflammation and Tolerance through TLR4 Trafficking. Journal of Immunology, 2018, 200, 2798-2808.	0.4	19
20	A Refined Culture System for Human Induced Pluripotent Stem Cell-Derived Intestinal Epithelial Organoids. Stem Cell Reports, 2018, 10, 314-328.	2.3	83
21	Allograft inflammatory factor 1 is a regulator of transcytosis in M cells. Nature Communications, 2017, 8, 14509.	5.8	39
22	Reciprocal Inflammatory Signaling Between Intestinal Epithelial Cells and Adipocytes in the Absence of Immune Cells. EBioMedicine, 2017, 23, 34-45.	2.7	45
23	IL-10-producing CD4+ T cells negatively regulate fucosylation of epithelial cells in the gut. Scientific Reports, 2015, 5, 15918.	1.6	26
24	Central Role of Core Binding Factor Î²2 in Mucosa-Associated Lymphoid Tissue Organogenesis in Mouse. PLoS ONE, 2015, 10, e0127460.	1.1	10
25	Identification and Analysis of Natural Killer Cells in Murine Nasal Passages. PLoS ONE, 2015, 10, e0142920.	1.1	7
26	Mucosal Immunosenescence in the Gastrointestinal Tract: A Mini-Review. Gerontology, 2015, 61, 336-342.	1.4	46
27	The Ectoenzyme E-NPP3 Negatively Regulates ATP-Dependent Chronic Allergic Responses by Basophils and Mast Cells. Immunity, 2015, 42, 279-293.	6.6	70
28	Loss of Lymph Node Fibroblastic Reticular Cells and High Endothelial Cells Is Associated with Humoral Immunodeficiency in Mouse Graft-versus-Host Disease. Journal of Immunology, 2015, 194, 398-406.	0.4	27
29	Runx2-I Isoform Contributes to Fetal Bone Formation Even in the Absence of Specific N-Terminal Amino Acids. PLoS ONE, 2014, 9, e108294.	1.1	15
30	Vaginal Memory T Cells Induced by Intranasal Vaccination Are Critical for Protective T Cell Recruitment and Prevention of Genital HSV-2 Disease. Journal of Virology, 2014, 88, 13699-13708.	1.5	34
31	Blockade of TLR3 protects mice from lethal radiation-induced gastrointestinal syndrome. Nature Communications, 2014, 5, 3492.	5.8	119
32	PeyerÊ¼s Patches Play a Protective Role in Nonsteroidal Anti-inflammatory Drug-induced Enteropathy in Mice. Inflammatory Bowel Diseases, 2014, 20, 790-799.	0.9	3
33	The Enzyme Cyp26b1 Mediates Inhibition of Mast Cell Activation by Fibroblasts to Maintain Skin-Barrier Homeostasis. Immunity, 2014, 40, 530-541.	6.6	81
34	Mucosal adjuvants for vaccines to control upper respiratory infections in the elderly. Experimental Gerontology, 2014, 54, 21-26.	1.2	24
35	Innate lymphoid cells regulate intestinal epithelial cell glycosylation. Science, 2014, 345, 1254009.	6.0	450
36	Generation of colonic IgA-secreting cells in the caecal patch. Nature Communications, 2014, 5, 3704.	5.8	121

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37	An essential role for the N-terminal fragment of Toll-like receptor 9 in DNA sensing. Nature Communications, 2013, 4, 1949.	5.8	74
38	Critical Role of Dendritic Cells in T Cell Retention in the Interfollicular Region of Peyerâ€™s Patches. Journal of Immunology, 2013, 191, 942-948.	0.4	7
39	Nanogel-Based PspA Intranasal Vaccine Prevents Invasive Disease and Nasal Colonization by Streptococcus pneumoniae. Infection and Immunity, 2013, 81, 1625-1634.	1.0	126
40	Extracellular ATP mediates mast cell-dependent intestinal inflammation through P2X7 purinoceptors. Nature Communications, 2012, 3, 1034.	5.8	243
41	The mucosal immune system of the respiratory tract. Current Opinion in Virology, 2012, 2, 225-232.	2.6	82
42	Lipocalin 2 Bolsters Innate and Adaptive Immune Responses to Blood-Stage Malaria Infection by Reinforcing Host Iron Metabolism. Cell Host and Microbe, 2012, 12, 705-716.	5.1	50
43	The Airway Antigen Sampling System: Respiratory M Cells as an Alternative Gateway for Inhaled Antigens. Journal of Immunology, 2011, 186, 4253-4262.	0.4	91
44	Intracellular<i>Mycobacterium avium</i>Intersect Transferrin in the Rab11⁺Recycling Endocytic Pathway and Avoid Lipocalin 2 Trafficking to the Lysosomal Pathway. Journal of Infectious Diseases, 2010, 201, 783-792.	1.9	64
45	LGP2 is a positive regulator of RIG-Iâ€“ and MDA5-mediated antiviral responses. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1512-1517.	3.3	540
46	Indigenous opportunistic bacteria inhabit mammalian gut-associated lymphoid tissues and share a mucosal antibody-mediated symbiosis. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 7419-7424.	3.3	197
47	Inflammatory Mediator TAK1 Regulates Hair Follicle Morphogenesis and Anagen Induction Shown by Using Keratinocyte-Specific TAK1-Deficient Mice. PLoS ONE, 2010, 5, e11275.	1.1	15
48	Id2-, RORÎ³t-, and LTÎ²R-independent initiation of lymphoid organogenesis in ocular immunity. Journal of Experimental Medicine, 2009, 206, 2351-2364.	4.2	66
49	Regulation and function of the cytosolic viral RNA sensor RIG-I in pancreatic beta cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2009, 1793, 1768-1775.	1.9	18
50	Sequential control of Toll-like receptorâ€"dependent responses by IRAK1 and IRAK2. Nature Immunology, 2008, 9, 684-691.	7.0	361
51	Regulation of humoral and cellular gut immunity by lamina propria dendritic cells expressing Toll-like receptor 5. Nature Immunology, 2008, 9, 769-776.	7.0	668
52	Potent Antimycobacterial Activity of Mouse Secretory Leukocyte Protease Inhibitor. Journal of Immunology, 2008, 180, 4032-4039.	0.4	33
53	Lipocalin 2-Dependent Inhibition of Mycobacterial Growth in Alveolar Epithelium. Journal of Immunology, 2008, 181, 8521-8527.	0.4	127
54	Leishmania-Induced IRAK-1 Inactivation Is Mediated by SHP-1 Interacting with an Evolutionarily Conserved KTIM Motif. PLoS Neglected Tropical Diseases, 2008, 2, e305.	1.3	88

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55	Genesis of tear ductâ€associated lymphoid tissue is independent of Id2, RORÎ³t but requires CbfÎ²2 transcriptional regulator. FASEB Journal, 2008, 22, 845.1.	0.2	0
56	Enhanced TLR-mediated NF-IL6â€"dependent gene expression by Trib1 deficiency. Journal of Experimental Medicine, 2007, 204, 2233-2239.	4.2	73
57	Essential role of IRAK-4 protein and its kinase activity in Toll-like receptorâ€"mediated immune responses but not in TCR signaling. Journal of Experimental Medicine, 2007, 204, 1013-1024.	4.2	158
58	Interleukin-1 (IL-1)-induced TAK1-dependent Versus MEKK3-dependent NFÎºB Activation Pathways Bifurcate at IL-1 Receptor-associated Kinase Modification. Journal of Biological Chemistry, 2007, 282, 6075-6089.	1.6	101
59	HTLV-1 Tax-induced NFÎºB activation is independent of Lys-63-linked-type polyubiquitination. Biochemical and Biophysical Research Communications, 2007, 357, 225-230.	1.0	22
60	Pathological role of Toll-like receptor signaling in cerebral malaria. International Immunology, 2006, 19, 67-79.	1.8	144
61	Plexin-A1 and its interaction with DAP12 in immune responses and bone homeostasis. Nature Cell Biology, 2006, 8, 615-622.	4.6	229
62	A Toll-like receptorâ€"independent antiviral response induced by double-stranded B-form DNA. Nature Immunology, 2006, 7, 40-48.	7.0	704
63	Key function for the Ubc13 E2 ubiquitin-conjugating enzyme in immune receptor signaling. Nature Immunology, 2006, 7, 962-970.	7.0	249
64	Differential roles of MDA5 and RIG-I helicases in the recognition of RNA viruses. Nature, 2006, 441, 101-105.	13.7	3,292
65	Blockade of transforming growth factor-Î²-activated kinase 1 activity enhances TRAIL-induced apoptosis through activation of a caspase cascade. Molecular Cancer Therapeutics, 2006, 5, 2970-2976.	1.9	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.	1.8	110
67	Essential role of IPS-1 in innate immune responses against RNA viruses. Journal of Experimental Medicine, 2006, 203, 1795-1803.	4.2	438
68	Cutting Edge: Role of TANK-Binding Kinase 1 and Inducible IÎºB Kinase in IFN Responses against Viruses in Innate Immune Cells. Journal of Immunology, 2006, 177, 5785-5789.	0.4	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.	0.4	161
70	TLR8-mediated NF-ÎºB and JNK Activation Are TAK1-independent and MEKK3-dependent. Journal of Biological Chemistry, 2006, 281, 21013-21021.	1.6	84
71	Cutting Edge: Pivotal Function of Ubc13 in Thymocyte TCR Signaling. Journal of Immunology, 2006, 177, 7520-7524.	0.4	76
72	TAK1 Is a Component of the Epstein-Barr Virus LMP1 Complex and Is Essential for Activation of JNK but Not of NF-ÎºB. Journal of Biological Chemistry, 2006, 281, 7863-7872.	1.6	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.	1.6	136
74	Transforming Growth Factor-Î²-activated Kinase 1 Is Essential for Differentiation and the Prevention of Apoptosis in Epidermis. Journal of Biological Chemistry, 2006, 281, 22013-22020.	1.6	52
75	IPS-1, an adaptor triggering RIG-I- and Mda5-mediated type I interferon induction. Nature Immunology, 2005, 6, 981-988.	7.0	2,254
76	Essential function for the kinase TAK1 in innate and adaptive immune responses. Nature Immunology, 2005, 6, 1087-1095.	7.0	839
77	Interleukin-1 receptor-associated kinase-1 plays an essential role for Toll-like receptor (TLR)7- and TLR9-mediated interferon-Î± induction. Journal of Experimental Medicine, 2005, 201, 915-923.	4.2	446
78	Toll-like Receptor 3 and STAT-1 Contribute to Double-stranded RNA+ Interferon-Î³-induced Apoptosis in Primary Pancreatic Î²-Cells. Journal of Biological Chemistry, 2005, 280, 33984-33991.	1.6	140
79	Cell Type-Specific Involvement of RIG-I in Antiviral Response. Immunity, 2005, 23, 19-28.	6.6	1,221
80	Toll-like receptor 9 mediates innate immune activation by the malaria pigment hemozoin. Journal of Experimental Medicine, 2005, 201, 19-25.	4.2	537
81	The Roles of Two IÎºB Kinase-related Kinases in Lipopolysaccharide and Double Stranded RNA Signaling and Viral Infection. Journal of Experimental Medicine, 2004, 199, 1641-1650.	4.2	536
82	Interferon-Î± induction through Toll-like receptors involves a direct interaction of IRF7 with MyD88 and TRAF6. Nature Immunology, 2004, 5, 1061-1068.	7.0	894
83	Regulation of Toll/IL-1-receptor-mediated gene expression by the inducible nuclear protein IÎºBÎ¶. Nature, 2004, 430, 218-222.	13.7	445
84	Lipocalin 2 mediates an innate immune response to bacterial infection by sequestrating iron. Nature, 2004, 432, 917-921.	13.7	1,540
85	TRAM is specifically involved in the Toll-like receptor 4â€"mediated MyD88-independent signaling pathway. Nature Immunology, 2003, 4, 1144-1150.	7.0	919
86	Role of Adaptor TRIF in the MyD88-Independent Toll-Like Receptor Signaling Pathway. Science, 2003, 301, 640-643.	6.0	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-Î² (TRIF) Associates with TNF Receptor-Associated Factor 6 and TANK-Binding Kinase 1, and Activates Two Distinct Transcription Factors, NF-Îº B and IFN-Regulatory Factor-3, in the Toll-Like Receptor Signaling. Journal of Immunology, 2003, 171, 4304-4310.	0.4	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.	1.8	153
90	SOCS-1 Participates in Negative Regulation of LPS Responses. Immunity, 2002, 17, 677-687.	6.6	583

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91	Cutting Edge: A Novel Toll/IL-1 Receptor Domain-Containing Adapter That Preferentially Activates the IFN-Î² Promoter in the Toll-Like Receptor Signaling. Journal of Immunology, 2002, 169, 6668-6672.	0.4	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.	0.4	1,186
93	Essential role for TIRAP in activation of the signalling cascade shared by TLR2 and TLR4. Nature, 2002, 420, 324-329.	13.7	910
94	Small anti-viral compounds activate immune cells via the TLR7 MyD88â€"dependent signaling pathway. Nature Immunology, 2002, 3, 196-200.	7.0	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.	0.4	986
96	A Toll-like receptor recognizes bacterial DNA. Nature, 2000, 408, 740-745.	13.7	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.	0.4	700
98	Synergy and Cross-Tolerance Between Toll-Like Receptor (TLR) 2- and TLR4-Mediated Signaling Pathways. Journal of Immunology, 2000, 165, 7096-7101.	0.4	367