

# Takashi Matozaki

## List of Publications by Year in descending order

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64  
papers

5,675  
citations

172457  
29  
h-index

123424  
61  
g-index

66  
all docs

66  
docs citations

66  
times ranked

7308  
citing authors

#	ARTICLE	IF	CITATIONS
1	Small GTP-Binding Proteins. <i>Physiological Reviews</i> , 2001, 81, 153-208.	28.8	2,235
2	Functions and molecular mechanisms of the CD47-SIRP $\alpha$ signalling pathway. <i>Trends in Cell Biology</i> , 2009, 19, 72-80.	7.9	379
3	CD47-SIRP $\alpha$ interactions form a barrier for antibody-mediated tumor cell destruction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 18342-18347.	7.1	256
4	Negative Regulation of Phagocytosis in Macrophages by the CD47-SHPS-1 System. <i>Journal of Immunology</i> , 2005, 174, 2004-2011.	0.8	249
5	Neutrophils Kill Antibody-Opsonized Cancer Cells by Troptosis. <i>Cell Reports</i> , 2018, 23, 3946-3959.e6.	6.4	245
6	Protein tyrosine phosphatase SHP-2: A proto-oncogene product that promotes Ras activation. <i>Cancer Science</i> , 2009, 100, 1786-1793.	3.9	206
7	Promotion of Intestinal Epithelial Cell Turnover by Commensal Bacteria: Role of Short-Chain Fatty Acids. <i>PLoS ONE</i> , 2016, 11, e0156334.	2.5	182
8	The CD47-SIRP $\alpha$ signalling system: its physiological roles and therapeutic application. <i>Journal of Biochemistry</i> , 2014, 155, 335-344.	1.7	132
9	Integrin-mediated Tyrosine Phosphorylation of SHPS-1 and Its Association with SHP-2. <i>Journal of Biological Chemistry</i> , 1998, 273, 13223-13229.	3.4	131
10	Anti-SIRP $\alpha$ antibodies as a potential new tool for cancer immunotherapy. <i>JCI Insight</i> , 2017, 2, e89140.	5.0	120
11	SHPS-1 promotes the survival of circulating erythrocytes through inhibition of phagocytosis by splenic macrophages. <i>Blood</i> , 2006, 107, 341-348.	1.4	114
12	CD47-SIRP $\alpha$ signaling system and its application to cancer immunotherapy. <i>Cancer Science</i> , 2018, 109, 2349-2357.	3.9	99
13	Role of the CD47-SHPS-1 system in regulation of cell migration. <i>EMBO Journal</i> , 2003, 22, 2634-2644.	7.8	84
14	Regulation by SIRP $\alpha$ of dendritic cell homeostasis in lymphoid tissues. <i>Blood</i> , 2010, 116, 3517-3525.	1.4	64
15	Positive Regulation of Phagocytosis by SIRP $\alpha$ and Its Signaling Mechanism in Macrophages. <i>Journal of Biological Chemistry</i> , 2004, 279, 29450-29460.	3.4	61
16	Characterization of a 115-kDa Protein That Binds to SH-PTP2, a Protein-tyrosine Phosphatase with Src Homology 2 Domains, in Chinese Hamster Ovary Cells. <i>Journal of Biological Chemistry</i> , 1996, 271, 27652-27658.	3.4	60
17	SIRP $\alpha$ /CD172a Regulates Eosinophil Homeostasis. <i>Journal of Immunology</i> , 2011, 187, 2268-2277.	0.8	54
18	Expression, localization, and biological function of the R3 subtype of receptor-type protein tyrosine phosphatases in mammals. <i>Cellular Signalling</i> , 2010, 22, 1811-1817.	3.6	52

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19	Resistance to Experimental Autoimmune Encephalomyelitis and Impaired T Cell Priming by Dendritic Cells in Src Homology 2 Domain-Containing Protein Tyrosine Phosphatase Substrate-1 Mutant Mice. <i>Journal of Immunology</i> , 2007, 179, 869-877.	0.8	50
20	Dendritic Cell-Specific Ablation of the Protein Tyrosine Phosphatase Shp1 Promotes Th1 Cell Differentiation and Induces Autoimmunity. <i>Journal of Immunology</i> , 2012, 188, 5397-5407.	0.8	49
21	Differential Localization of Src Homology 2 Domain-Containing Protein Tyrosine Phosphatase Substrate-1 and CD47 and Its Molecular Mechanisms in Cultured Hippocampal Neurons. <i>Journal of Neuroscience</i> , 2005, 25, 2702-2711.	3.6	47
22	SAP-1 is a microvillus-specific protein tyrosine phosphatase that modulates intestinal tumorigenesis. <i>Genes To Cells</i> , 2009, 14, 295-308.	1.2	47
23	Stress-Evoked Tyrosine Phosphorylation of Signal Regulatory Protein $\beta$ Regulates Behavioral Immobility in the Forced Swim Test. <i>Journal of Neuroscience</i> , 2010, 30, 10472-10483.	3.6	41
24	Protein tyrosine phosphatase SAP-1 protects against colitis through regulation of CEACAM20 in the intestinal epithelium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4264-E4271.	7.1	39
25	Microglial SIRP $\beta$ regulates the emergence of CD11c <sup>+</sup> microglia and demyelination damage in white matter. <i>ELife</i> , 2019, 8, .	6.0	39
26	Inflammation-induced proteolytic processing of the SIRP $\beta$ cytoplasmic ITIM in neutrophils propagates a proinflammatory state. <i>Nature Communications</i> , 2013, 4, 2436.	12.8	38
27	The BALB/c-specific polymorphic SIRPA enhances its affinity for human CD47, inhibiting phagocytosis against human cells to promote xenogeneic engraftment. <i>Experimental Hematology</i> , 2014, 42, 163-171.e1.	0.4	35
28	Anti-human $\alpha$ SIRP $\beta$ antibody is a new tool for cancer immunotherapy. <i>Cancer Science</i> , 2018, 109, 1300-1308.	3.9	34
29	Trans-endocytosis of CD47 and SHPS-1 and its role in regulation of the CD47-SHPS-1 system. <i>Journal of Cell Science</i> , 2008, 121, 1213-1223.	2.0	32
30	Shp2 in Forebrain Neurons Regulates Synaptic Plasticity, Locomotion, and Memory Formation in Mice. <i>Molecular and Cellular Biology</i> , 2015, 35, 1557-1572.	2.3	32
31	Macrocytic Peptide-Mediated Blockade of the CD47-SIRP $\beta$ Interaction as a Potential Cancer Immunotherapy. <i>Cell Chemical Biology</i> , 2020, 27, 1181-1191.e7.	5.2	32
32	Role of the Protein Tyrosine Phosphatase Shp2 in Homeostasis of the Intestinal Epithelium. <i>PLoS ONE</i> , 2014, 9, e92904.	2.5	28
33	SIRP $\beta$ <sup>+</sup> dendritic cells regulate homeostasis of fibroblastic reticular cells via TNF receptor ligands in the adult spleen. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E10151-E10160.	7.1	27
34	Dendritic cell SIRP $\beta$ regulates homeostasis of dendritic cells in lymphoid organs. <i>Genes To Cells</i> , 2015, 20, 451-463.	1.2	26
35	Tyrosine phosphorylation of R3 subtype receptor-type protein tyrosine phosphatases and their complex formations with Grb2 or Fyn. <i>Genes To Cells</i> , 2010, 15, 513-524.	1.2	25
36	Regulation by Src Homology 2 Domain-Containing Protein Tyrosine Phosphatase Substrate-1 of $\beta$ -Galactosylceramide-Induced Antimetastatic Activity and Th1 and Th2 Responses of NKT Cells. <i>Journal of Immunology</i> , 2007, 178, 6164-6172.	0.8	24

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37	Deletion of SIRP $\beta$ (signal regulatory protein- $\beta$ ) promotes phagocytic clearance of myelin debris in Wallerian degeneration, axon regeneration, and recovery from nerve injury. <i>Journal of Neuroinflammation</i> , 2019, 16, 277.	7.2	24
38	Shear Stress-induced Redistribution of Vascular Endothelial-Protein-tyrosine Phosphatase (VE-PTP) in Endothelial Cells and Its Role in Cell Elongation. <i>Journal of Biological Chemistry</i> , 2014, 289, 6451-6461.	3.4	23
39	Role of Src Family Kinases in Regulation of Intestinal Epithelial Homeostasis. <i>Molecular and Cellular Biology</i> , 2016, 36, 2811-2823.	2.3	23
40	Comprehensive Behavioral Analysis of Cluster of Differentiation 47 Knockout Mice. <i>PLoS ONE</i> , 2014, 9, e89584.	2.5	22
41	Negative regulation by SHPS $\alpha$ 1 of Toll $\beta$ like receptor $\beta$ -dependent proinflammatory cytokine production in macrophages. <i>Genes To Cells</i> , 2008, 13, 209-219.	1.2	21
42	Essential roles of SHPS-1 in induction of contact hypersensitivity of skin. <i>Immunology Letters</i> , 2008, 121, 52-60.	2.5	18
43	Roles of Src family kinase, Ras, and mTOR signaling in intestinal epithelial homeostasis and tumorigenesis. <i>Cancer Science</i> , 2021, 112, 16-21.	3.9	17
44	Expression of PTPRO in the interneurons of adult mouse olfactory bulb. <i>Journal of Comparative Neurology</i> , 2010, 518, 119-136.	1.6	16
45	Role of lysophosphatidic acid in proliferation and differentiation of intestinal epithelial cells. <i>PLoS ONE</i> , 2019, 14, e0215255.	2.5	16
46	Regulation of Ras and Rho small G proteins by SHP-2. <i>Genes To Cells</i> , 2001, 6, 869-876.	1.2	15
47	Essential roles of SIRP $\beta$ in homeostatic regulation of skin dendritic cells. <i>Immunology Letters</i> , 2011, 135, 100-107.	2.5	15
48	Autoimmune animal models in the analysis of the CD47 $\beta$ -SIRP $\beta$ signaling pathway. <i>Methods</i> , 2014, 65, 254-259.	3.8	13
49	Role of SIRP $\beta$ in regulation of mucosal immunity in the intestine. <i>Genes To Cells</i> , 2010, 15, 1189-1200.	1.2	9
50	Regulation of Small Intestinal Epithelial Homeostasis by Tsc2-mTORC1 Signaling. <i>Kobe Journal of Medical Sciences</i> , 2019, 64, E200-E209.	0.2	9
51	Anticancer efficacy of monotherapy with antibodies to SIRP $\beta$ /SIRP $\beta$ 1 mediated by induction of antitumorigenic macrophages. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	9
52	Regulation by commensal bacteria of neurogenesis in the subventricular zone of adult mouse brain. <i>Biochemical and Biophysical Research Communications</i> , 2018, 498, 824-829.	2.1	8
53	Regulation of colonic epithelial cell homeostasis by mTORC1. <i>Scientific Reports</i> , 2020, 10, 13810.	3.3	8
54	SIRP $\beta$ on CD11c <sup>+</sup> cells induces Th17 cell differentiation and subsequent inflammation in the CNS in experimental autoimmune encephalomyelitis. <i>European Journal of Immunology</i> , 2020, 50, 1560-1570.	2.9	8

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55	Prion pathogenesis is unaltered in the absence of SIRP $\alpha$ -mediated "don't-eat-me" signaling. PLoS ONE, 2017, 12, e0177876.	2.5	7
56	Role of Csk in intestinal epithelial barrier function and protection against colitis. Biochemical and Biophysical Research Communications, 2018, 504, 109-114.	2.1	6
57	SIRP $\alpha$ dendritic cells promote the development of fibroblastic reticular cells in murine peripheral lymph nodes. European Journal of Immunology, 2019, 49, 1364-1371.	2.9	6
58	Blockade of CD47 or SIRP $\alpha$ : a new cancer immunotherapy. Expert Opinion on Therapeutic Targets, 2020, 24, 945-951.	3.4	6
59	SIRP $\alpha$ on Mouse B1 Cells Restricts Lymphoid Tissue Migration and Natural Antibody Production. Frontiers in Immunology, 2020, 11, 570963.	4.8	5
60	Role of Ras in regulation of intestinal epithelial cell homeostasis and crosstalk with Wnt signaling. PLoS ONE, 2021, 16, e0256774.	2.5	2
61	Lack of SIRP $\alpha$ phosphorylation and concomitantly reduced SHP-2 $\rightarrow$ PI3K $\rightarrow$ Akt2 signaling decrease osteoblast differentiation. Biochemical and Biophysical Research Communications, 2016, 478, 268-273.	2.1	1
62	Future therapeutic potential of SAP-1 in inflammatory bowel diseases. Expert Review of Gastroenterology and Hepatology, 2016, 10, 1313-1315.	3.0	0
63	Sirpa. , 2017, , 1-7.		0
64	Role of SIRP $\alpha$ in Homeostatic Regulation of T Cells and Fibroblastic Reticular Cells in the Spleen. Kobe Journal of Medical Sciences, 2017, 63, E22-E29.	0.2	0