Takashi Nagasawa

List of Publications by Year
in descending order

112	20,775	19655 61	22829 112
papers	citations	h-index	g-index

122	122	122	20143
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Defects of B-cell lymphopoiesis and bone-marrow myelopoiesis in mice lacking the CXC chemokine PBSF/SDF-1. Nature, 1996, 382, 635-638.	27.8	2,195
2	Maintenance of the Hematopoietic Stem Cell Pool by CXCL12-CXCR4 Chemokine Signaling in Bone Marrow Stromal Cell Niches. Immunity, 2006, 25, 977-988.	14.3	2,010
3	Impaired B-lymphopoiesis, myelopoiesis, and derailed cerebellar neuron migration in CXCR4- and SDF-1-deficient mice. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 9448-9453.	7.1	1,537
4	The chemokine receptor CXCR4 is essential for vascularization of the gastrointestinal tract. Nature, 1998, 393, 591-594.	27.8	1,423
5	CXCL12 in early mesenchymal progenitors is required for haematopoietic stem-cell maintenance. Nature, 2013, 495, 227-230.	27.8	1,119
6	The Essential Functions of Adipo-osteogenic Progenitors as the Hematopoietic Stem and Progenitor Cell Niche. Immunity, 2010, 33, 387-399.	14.3	707
7	Cellular Niches Controlling B Lymphocyte Behavior within Bone Marrow during Development. Immunity, 2004, 20, 707-718.	14.3	679
8	Rhythmic Modulation of the Hematopoietic Niche through Neutrophil Clearance. Cell, 2013, 153, 1025-1035.	28.9	555
9	Stromal cellâ€“derived factor 1/CXCR4 signaling is critical for the recruitment of mesenchymal stem cells to the fracture site during skeletal repair in a mouse model. Arthritis and Rheumatism, 2009, 60, 813-823.	6.7	499
10	CXCR4 Regulates Interneuron Migration in the Developing Neocortex. Journal of Neuroscience, 2003, 23, 5123-5130.	3.6	411
11	A Small Molecule CXCR4 Inhibitor that Blocks T Cell Lineâ€“tropic HIV-1 Infection. Journal of Experimental Medicine, 1997, 186, 1389-1393.	8.5	391
12	Microenvironmental niches in the bone marrow required for B-cell development. Nature Reviews Immunology, 2006, 6, 107-116.	22.7	387
13	A subset of chondrogenic cells provides early mesenchymal progenitors in growing bones. Nature Cell Biology, 2014, 16, 1157-1167.	10.3	346
14	Long-Term Hematopoietic Stem Cells Require Stromal Cell-Derived Factor-1 for Colonizing Bone Marrow during Ontogeny. Immunity, 2003, 19, 257-267.	14.3	312
15	Paranodal junction formation and spermatogenesis require sulfoglycolipids. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 4227-4232.	7.1	307
16	Impaired colonization of the gonads by primordial germ cells in mice lacking a chemokine, stromal cell-derived factor-1 (SDF-1). Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 5319-5323.	7.1	295
17	Resting zone of the growth plate houses a unique class of skeletal stem cells. Nature, 2018, 563, 254-258.	27.8	280
18	Dll4 and Notch signalling couples sprouting angiogenesis and artery formation. Nature Cell Biology, 2017, 19, 915-927.	10.3	271

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19	Aire-dependent production of XCL1 mediates medullary accumulation of thymic dendritic cells and contributes to regulatory T cell development. Journal of Experimental Medicine, 2011, 208, 383-394.	8.5	262
20	Germinal Center Centroblasts Transition to a Centrocyte Phenotype According to a Timed Program and Depend on the Dark Zone for Effective Selection. Immunity, 2013, 39, 912-924.	14.3	224
21	Role of the chemokine SDF-1 as the meningeal attractant for embryonic cerebellar neurons. Nature Neuroscience, 2002, 5, 719-720.	14.8	220
22	A novel CXC chemokine PBSF/SDF-1 and its receptor CXCR4: their functions in development, hematopoiesis and HIV infection. Seminars in Immunology, 1998, 10, 179-185.	5.6	213
23	Neutrophils instruct homeostatic and pathological states in naive tissues. Journal of Experimental Medicine, 2018, 215, 2778-2795.	8.5	200
24	Hematopoietic Stem Cell Niches Produce Lineage-Instructive Signals to Control Multipotent Progenitor Differentiation. Immunity, 2016, 45, 1219-1231.	14.3	199
25	Foxc1 is a critical regulator of haematopoietic stem/progenitor cell niche formation. Nature, 2014, 508, 536-540.	27.8	192
26	Neutrophil mobilization via plerixafor-mediated CXCR4 inhibition arises from lung demargination and blockade of neutrophil homing to the bone marrow. Journal of Experimental Medicine, 2013, 210, 2321-2336.	8.5	190
27	The Earliest Stages of B Cell Development Require a Chemokine Stromal Cell-Derived Factor/Pre-B Cell Growth-Stimulating Factor. Immunity, 2001, 15, 323-334.	14.3	188
28	A Wnt-mediated transformation of the bone marrow stromal cell identity orchestrates skeletal regeneration. Nature Communications, 2020, 11, 332.	12.8	184
29	Vasculature-Associated Cells Expressing Nestin in Developing Bones Encompass Early Cells in the Osteoblast and Endothelial Lineage. Developmental Cell, 2014, 29, 330-339.	7.0	160
30	A Cxcl12-Cxcr4 Chemokine Signaling Pathway Defines the Initial Trajectory of Mammalian Motor Axons. Neuron, 2005, 47, 667-679.	8.1	155
31	A Role of CXC Chemokine Ligand 12/Stromal Cell-Derived Factor-1/Pre-B Cell Growth Stimulating Factor and Its Receptor CXCR4 in Fetal and Adult T Cell Development in Vivo. Journal of Immunology, 2003, 170, 4649-4655.	0.8	154
32	Bone marrow graft-versus-host disease: early destruction of hematopoietic niche after MHC-mismatched hematopoietic stem cell transplantation. Blood, 2010, 115, 5401-5411.	1.4	152
33	The CXCL12 (SDF-1)/CXCR4 Axis Is Essential for the Development of Renal Vasculature. Journal of the American Society of Nephrology: JASN, 2009, 20, 1714-1723.	6.1	149
34	Thymic development beyond Î²-selection requires phosphatidylinositol 3-kinase activation by CXCR4. Journal of Experimental Medicine, 2010, 207, 247-261.	8.5	143
35	Mesenchymal Niche-Specific Expression of Cxcl12 Controls Quiescence of Treatment-Resistant Leukemia Stem Cells. Cell Stem Cell, 2019, 24, 769-784.e6.	11.1	141
36	Control of hematopoietic stem cells by the bone marrow stromal niche: the role of reticular cells. Trends in Immunology, 2011, 32, 315-320.	6.8	138

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37	CXC chemokine ligand 12 (CXCL12) and its receptor CXCR4. Journal of Molecular Medicine, 2014, 92, 433-439.	3.9	136
38	Trans-mesenteric neural crest cells are the principal source of the colonic enteric nervous system. Nature Neuroscience, 2012, 15, 1211-1218.	14.8	131
39	Extracellular matrix protein tenascin-C is required in the bone marrow microenvironment primed for hematopoietic regeneration. Blood, 2012, 119, 5429-5437.	1.4	122
40	Peripheral Nerve-Derived CXCL12 and VEGF-A Regulate the Patterning of Arterial Vessel Branching in Developing Limb Skin. Developmental Cell, 2013, 24, 359-371.	7.0	122
41	Adrenomedullin/Cyclic AMP Pathway Induces Notch Activation and Differentiation of Arterial Endothelial Cells From Vascular Progenitors. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1977-1984.	2.4	118
42	Lhx6 Directly Regulates Arx and CXCR7 to Determine Cortical Interneuron Fate and Laminar Position. Neuron, 2014, 82, 350-364.	8.1	118
43	Glucocorticoids Drive Diurnal Oscillations in T Cell Distribution and Responses by Inducing Interleukin-7 Receptor and CXCR4. Immunity, 2018, 48, 286-298.e6.	14.3	118
44	Stem cell niche-specific Ebf3 maintains the bone marrow cavity. Genes and Development, 2018, 32, 359-372.	5.9	110
45	Phenotypic and Morphological Properties of Germinal Center Dark Zone Cxcl12-Expressing Reticular Cells. Journal of Immunology, 2015, 195, 4781-4791.	0.8	109
46	Quantitative spatial analysis of haematopoiesis-regulating stromal cells in the bone marrow microenvironment by 3D microscopy. Nature Communications, 2018, 9, 2532.	12.8	109
47	CXCL12-CXCR4 chemokine signaling is essential for NK-cell development in adult mice. Blood, 2011, 117, 451-458.	1.4	106
48	The unique target specificity of a nonpeptide chemokine receptor antagonist: selective blockade of two Th1 chemokine receptors CCR5 and CXCR3. Journal of Leukocyte Biology, 2003, 73, 273-280.	3.3	105
49	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. Cell Stem Cell, 2019, 24, 79-92.e6.	11.1	105
50	Reconstitution of Mouse Spermatogonial Stem Cell Niches in Culture. Cell Stem Cell, 2012, 11, 567-578.	11.1	104
51	Reduced retention of radioprotective hematopoietic cells within the bone marrow microenvironment in CXCR4â€"/â€" chimeric mice. Blood, 2006, 107, 2243-2251.	1.4	103
52	Random Walk Behavior of Migrating Cortical Interneurons in the Marginal Zone: Time-Lapse Analysis in Flat-Mount Cortex. Journal of Neuroscience, 2009, 29, 1300-1311.	3.6	99
53	The role of CXCL12 in the organ-specific process of artery formation. Blood, 2005, 105, 3155-3161.	1.4	89
54	Bone Marrow Niches for Hematopoietic Stem Cells and Immune Cells. Inflammation and Allergy: Drug Targets, 2012, 11, 201-206.	1.8	86

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55	C-X-C receptor type 4 promotes metastasis by activating p38 mitogen-activated protein kinase in myeloid differentiation antigen (Gr-1)-positive cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 302-307.	7.1	85
56	Spi-B is critical for plasmacytoid dendritic cell function and development. Blood, 2012, 120, 4733-4743.	1.4	85
57	Peripheral PDGFRÎ±+gp38+ mesenchymal cells support the differentiation of fetal liverâ€“derived ILC2. Journal of Experimental Medicine, 2018, 215, 1609-1626.	8.5	85
58	CXCL12/SDF-1 and CXCR4. Frontiers in Immunology, 2015, 6, 301.	4.8	83
59	Blockade of CXCL12/CXCR4 Axis Ameliorates Murine Experimental Colitis. Journal of Pharmacology and Experimental Therapeutics, 2008, 327, 383-392.	2.5	80
60	Remodeling of light and dark zone follicular dendritic cells governs germinal center responses. Nature Immunology, 2020, 21, 649-659.	14.5	80
61	Numerous niches for hematopoietic stem cells remain empty during homeostasis. Blood, 2017, 129, 2124-2131.	1.4	71
62	Development of plasmacytoid dendritic cells in bone marrow stromal cell niches requires CXCL12-CXCR4 chemokine signaling. Blood, 2007, 110, 4153-4160.	1.4	66
63	SDF1/CXCR4 signalling regulates two distinct processes of precerebellar neuronal migration and its depletion leads to abnormal pontine nuclei formation. Development (Cambridge), 2009, 136, 1919-1928.	2.5	62
64	Mechanism of primitive duct formation in the pancreas and submandibular glands: a role for SDF-1. BMC Developmental Biology, 2009, 9, 66.	2.1	60
65	Granulocyte colony-stimulating factor reprograms bone marrow stromal cells to actively suppress B lymphopoiesis in mice. Blood, 2015, 125, 3114-3117.	1.4	54
66	The Chemokine CXCL12 and Regulation of Hsc and B Lymphocyte Development in the Bone Marrow Niche. Advances in Experimental Medicine and Biology, 2007, 602, 69-75.	1.6	54
67	Constitutive Plasmacytoid Dendritic Cell Migration to the Splenic White Pulp Is Cooperatively Regulated by CCR7- and CXCR4-Mediated Signaling. Journal of Immunology, 2012, 189, 191-199.	0.8	53
68	DOCK180 Is a Rac Activator That Regulates Cardiovascular Development by Acting Downstream of CXCR4. Circulation Research, 2010, 107, 1102-1105.	4.5	46
69	Pathologic angiogenesis in the bone marrow of humanized sickle cell mice is reversed by blood transfusion. Blood, 2020, 135, 2071-2084.	1.4	44
70	A CXC Chemokine SDF-1/PBSF: A Ligand for a HIV Coreceptor, CXCR4. Advances in Immunology, 1998, 71, 211-228.	2.2	39
71	A novel role for factor VIII and thrombin/PAR1 in regulating hematopoiesis and its interplay with the bone structure. Blood, 2013, 122, 2562-2571.	1.4	38
72	Upregulation of VCAM-1 in lymphatic collectors supports dendritic cell entry and rapid migration to lymph nodes in inflammation. Journal of Experimental Medicine, 2021, 218, .	8.5	37

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73	Niches for hematopoietic stem cells and immune cell progenitors. International Immunology, 2019, 31, 5-11.	4.0	35
74	Transient microglial absence assists postmigratory cortical neurons in proper differentiation. Nature Communications, 2020, 11, 1631.	12.8	35
75	CXCR4/fusin Is Not a Species-specific Barrier in Murine Cells for HIV-1 Entry. Journal of Experimental Medicine, 1997, 185, 1865-1870.	8.5	34
76	Isolation and function of mouse tissue resident vascular precursors marked by myelin protein zero. Journal of Experimental Medicine, 2011, 208, 949-960.	8.5	34
77	Mesenchymal stromal cells in bone marrow express adiponectin and are efficiently targeted by an adiponectin promoter-driven Cre transgene. International Immunology, 2019, 31, 729-742.	4.0	33
78	Dysregulated Expression of the Nuclear Exosome Targeting Complex Component Rbm7 in Nonhematopoietic Cells Licenses the Development of Fibrosis. Immunity, 2020, 52, 542-556.e13.	14.3	33
79	Identification of CXCL12â€abundant reticular cells in human adult bone marrow. British Journal of Haematology, 2021, 193, 659-668.	2.5	33
80	CXCR4 Is Required for Proper Regional and Laminar Distribution of Cortical Somatostatin-, Calretinin-, and Neuropeptide Y-Expressing GABAergic Interneurons. Cerebral Cortex, 2010, 20, 2810-2817.	2.9	31
81	The Endothelial Antigen ESAM Monitors Hematopoietic Stem Cell Status between Quiescence and Self-Renewal. Journal of Immunology, 2012, 189, 200-210.	0.8	30
82	Bone marrow CXCR4 induction by cultivation enhances therapeutic angiogenesis. Cardiovascular Research, 2009, 81, 169-177.	3.8	29
83	Group 2 innate lymphoid cells support hematopoietic recovery under stress conditions. Journal of Experimental Medicine, 2021, 218, .	8.5	29
84	Chronic viral infections persistently alter marrow stroma and impair hematopoietic stem cell fitness. Journal of Experimental Medicine, 2021, 218, .	8.5	27
85	Stromal Cell-Derived Factor 1 Regulates the Actin Organization of Chondrocytes and Chondrocyte Hypertrophy. PLoS ONE, 2012, 7, e37163.	2.5	26
86	A Distinct Subset of Fibroblastic Stromal Cells Constitutes the Cortex-Medulla Boundary Subcompartment of the Lymph Node. Frontiers in Immunology, 2018, 9, 2196.	4.8	23
87	Role of Chemokine SDFâ€1/PBSF and Its Receptor CXCR4 in Blood Vessel Development. Annals of the New York Academy of Sciences, 2001, 947, 112-116.	3.8	21
88	Increased Susceptibility to Severe Chronic Liver Damage in CXCR4 Conditional Knock-Out Mice. Digestive Diseases and Sciences, 2012, 57, 2892-2900.	2.3	19
89	CXCR4 in Tumor Epithelial Cells Mediates Desmoplastic Reaction in Pancreatic Ductal Adenocarcinoma. Cancer Research, 2020, 80, 4058-4070.	0.9	18
90	Establishment of a Novel Mouse Model of Ulcerative Colitis with Concomitant Cytomegalovirus Infection. Inflammatory Bowel Diseases, 2013, 19, 1.	1.9	17

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91	CXCR7 Receptor Controls the Maintenance of Subpial Positioning of Cajalâ€“Retzius Cells. Cerebral Cortex, 2015, 25, 3446-3457.	2.9	17
92	Large quantity production with extreme convenience of human SDF-1Î± and SDF-1Î² by a Sendai virus vector. FEBS Letters, 1998, 425, 105-111.	2.8	16
93	The critical and specific transcriptional regulator of the microenvironmental niche for hematopoietic stem and progenitor cells. Current Opinion in Hematology, 2015, 22, 330-336.	2.5	16
94	A multistate stem cell dynamics maintains homeostasis in mouse spermatogenesis. Cell Reports, 2021, 37, 109875.	6.4	16
95	Chemokine Signaling Controls Integrity of Radial Glial Scaffold in Developing Spinal Cord and Consequential Proper Position of Boundary Cap Cells. Journal of Neuroscience, 2015, 35, 9211-9224.	3.6	15
96	Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells. Nature Communications, 2022, 13, 2654.	12.8	13
97	Peyerâ€™s Patch Inducer Cells Play a Leading Role in the Formation of B and T Cell Zone Architecture. Journal of Immunology, 2013, 190, 3309-3318.	0.8	12
98	New niches for B cells. Nature Immunology, 2008, 9, 345-346.	14.5	11
99	MDS cells impair osteolineage differentiation of MSCs via extracellular vesicles to suppress normal hematopoiesis. Cell Reports, 2022, 39, 110805.	6.4	10
100	Inhibition of stromal cellâ€“derived factor-1Î±/CXCR4 signaling restores the blood-retina barrier in pericyte-deficient mouse retinas. JCI Insight, 2018, 3, .	5.0	8
101	CXCR4/CXCL12 signaling impacts enamel progenitor cell proliferation and motility in the dental stem cell niche. Cell and Tissue Research, 2015, 362, 633-642.	2.9	4
102	Alterations in the spatiotemporal expression of the chemokine receptor CXCR4 in endothelial cells cause failure of hierarchical vascular branching. Developmental Biology, 2021, 477, 70-84.	2.0	4
103	Identification of microenvironmental niches for hematopoietic stem cells and lymphoid progenitorsâ€”bone marrow fibroblastic reticular cells with salient features. International Immunology, 2021, 33, 821-826.	4.0	4
104	Prolonged high-intensity exercise induces fluctuating immune responses to herpes simplex virus infection via glucocorticoids. Journal of Allergy and Clinical Immunology, 2021, 148, 1575-1588.e7.	2.9	3
105	Emergency Evacuation! Hematopoietic Niches Induce Cell Exit in Infection. Immunity, 2011, 34, 463-465.	14.3	2
106	CXCL12 catches T-ALL at the entrance of the bone marrow. Trends in Immunology, 2015, 36, 504-506.	6.8	1
107	Distinct Contributions By Perivascular Niche Cells in Hematopoietic Stem Cell Maintenance. Blood, 2015, 126, 661-661.	1.4	1
108	Role of CXCL12-Expressing Mesenchymal Stromal Cell Niches in Maintaining Treatment-Resistant Leukemia Stem Cells. Blood, 2018, 132, 1291-1291.	1.4	1

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109	Cellular Niches for Hematopoietic Stem Cells and Lympho-Hematopoiesis in Bone Marrow During Homeostasis and Blood Cancers. Current Topics in Microbiology and Immunology, 2021, 434, 33-54.	1.1	1
110	Myeloid Cells Stimulate Their Progenitors in an Emergency. Immunity, 2015, 42, 13-14.	14.3	0
111	Fundamental Properties of Native Bone Marrow Perisinusoidal Mesenchymal Stem Cells. SSRN Electronic Journal, 0, , .	0.4	0
112	Impaired Osteoblastic Differentiation of MSCs Suppresses Normal Hematopoiesis in MDS. Blood, 2020, 136, 17-18.	1.4	0