

Takashi Nagasawa

List of Publications by Year in descending order

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Version: 2024-02-01

112
papers

20,775
citations

19657

61
h-index

22832

112
g-index

122
all docs

122
docs citations

122
times ranked

20143
citing authors

#	ARTICLE	IF	CITATIONS
1	Defects of B-cell lymphopoiesis and bone-marrow myelopoiesis in mice lacking the CXC chemokine PBSF/SDF-1. <i>Nature</i> , 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. <i>Immunity</i> , 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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 9448-9453.	7.1	1,537
4	The chemokine receptor CXCR4 is essential for vascularization of the gastrointestinal tract. <i>Nature</i> , 1998, 393, 591-594.	27.8	1,423
5	CXCL12 in early mesenchymal progenitors is required for haematopoietic stem-cell maintenance. <i>Nature</i> , 2013, 495, 227-230.	27.8	1,119
6	The Essential Functions of Adipo-osteogenic Progenitors as the Hematopoietic Stem and Progenitor Cell Niche. <i>Immunity</i> , 2010, 33, 387-399.	14.3	707
7	Cellular Niches Controlling B Lymphocyte Behavior within Bone Marrow during Development. <i>Immunity</i> , 2004, 20, 707-718.	14.3	679
8	Rhythmic Modulation of the Hematopoietic Niche through Neutrophil Clearance. <i>Cell</i> , 2013, 153, 1025-1035.	28.9	555
9	Stromal cell-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. <i>Arthritis and Rheumatism</i> , 2009, 60, 813-823.	6.7	499
10	CXCR4 Regulates Interneuron Migration in the Developing Neocortex. <i>Journal of Neuroscience</i> , 2003, 23, 5123-5130.	3.6	411
11	A Small Molecule CXCR4 Inhibitor that Blocks T Cell Line-tropic HIV-1 Infection. <i>Journal of Experimental Medicine</i> , 1997, 186, 1389-1393.	8.5	391
12	Microenvironmental niches in the bone marrow required for B-cell development. <i>Nature Reviews Immunology</i> , 2006, 6, 107-116.	22.7	387
13	A subset of chondrogenic cells provides early mesenchymal progenitors in growing bones. <i>Nature Cell Biology</i> , 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. <i>Immunity</i> , 2003, 19, 257-267.	14.3	312
15	Paranodal junction formation and spermatogenesis require sulfoglycolipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 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). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003, 100, 5319-5323.	7.1	295
17	Resting zone of the growth plate houses a unique class of skeletal stem cells. <i>Nature</i> , 2018, 563, 254-258.	27.8	280
18	Dll4 and Notch signalling couples sprouting angiogenesis and artery formation. <i>Nature Cell Biology</i> , 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. <i>Journal of Experimental Medicine</i> , 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. <i>Immunity</i> , 2013, 39, 912-924.	14.3	224
21	Role of the chemokine SDF-1 as the meningeal attractant for embryonic cerebellar neurons. <i>Nature Neuroscience</i> , 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. <i>Seminars in Immunology</i> , 1998, 10, 179-185.	5.6	213
23	Neutrophils instruct homeostatic and pathological states in naive tissues. <i>Journal of Experimental Medicine</i> , 2018, 215, 2778-2795.	8.5	200
24	Hematopoietic Stem Cell Niches Produce Lineage-Instructive Signals to Control Multipotent Progenitor Differentiation. <i>Immunity</i> , 2016, 45, 1219-1231.	14.3	199
25	Foxc1 is a critical regulator of haematopoietic stem/progenitor cell niche formation. <i>Nature</i> , 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. <i>Journal of Experimental Medicine</i> , 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. <i>Immunity</i> , 2001, 15, 323-334.	14.3	188
28	A Wnt-mediated transformation of the bone marrow stromal cell identity orchestrates skeletal regeneration. <i>Nature Communications</i> , 2020, 11, 332.	12.8	184
29	Vasculature-Associated Cells Expressing Nestin in Developing Bones Encompass Early Cells in the Osteoblast and Endothelial Lineage. <i>Developmental Cell</i> , 2014, 29, 330-339.	7.0	160
30	A Cxcl12-Cxcr4 Chemokine Signaling Pathway Defines the Initial Trajectory of Mammalian Motor Axons. <i>Neuron</i> , 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. <i>Journal of Immunology</i> , 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. <i>Blood</i> , 2010, 115, 5401-5411.	1.4	152
33	The CXCL12 (SDF-1)/CXCR4 Axis Is Essential for the Development of Renal Vasculature. <i>Journal of the American Society of Nephrology: JASN</i> , 2009, 20, 1714-1723.	6.1	149
34	Thymic development beyond \hat{I}^2 -selection requires phosphatidylinositol 3-kinase activation by CXCR4. <i>Journal of Experimental Medicine</i> , 2010, 207, 247-261.	8.5	143
35	Mesenchymal Niche-Specific Expression of Cxcl12 Controls Quiescence of Treatment-Resistant Leukemia Stem Cells. <i>Cell Stem Cell</i> , 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. <i>Trends in Immunology</i> , 2011, 32, 315-320.	6.8	138

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37	CXC chemokine ligand 12 (CXCL12) and its receptor CXCR4. <i>Journal of Molecular Medicine</i> , 2014, 92, 433-439.	3.9	136
38	Trans-mesenteric neural crest cells are the principal source of the colonic enteric nervous system. <i>Nature Neuroscience</i> , 2012, 15, 1211-1218.	14.8	131
39	Extracellular matrix protein tenascin-C is required in the bone marrow microenvironment primed for hematopoietic regeneration. <i>Blood</i> , 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. <i>Developmental Cell</i> , 2013, 24, 359-371.	7.0	122
41	Adrenomedullin/Cyclic AMP Pathway Induces Notch Activation and Differentiation of Arterial Endothelial Cells From Vascular Progenitors. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1977-1984.	2.4	118
42	Lhx6 Directly Regulates Arx and CXCR7 to Determine Cortical Interneuron Fate and Laminar Position. <i>Neuron</i> , 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. <i>Immunity</i> , 2018, 48, 286-298.e6.	14.3	118
44	Stem cell niche-specific Ebf3 maintains the bone marrow cavity. <i>Genes and Development</i> , 2018, 32, 359-372.	5.9	110
45	Phenotypic and Morphological Properties of Germinal Center Dark Zone <i>Cxcl12</i> -Expressing Reticular Cells. <i>Journal of Immunology</i> , 2015, 195, 4781-4791.	0.8	109
46	Quantitative spatial analysis of haematopoiesis-regulating stromal cells in the bone marrow microenvironment by 3D microscopy. <i>Nature Communications</i> , 2018, 9, 2532.	12.8	109
47	CXCL12-CXCR4 chemokine signaling is essential for NK-cell development in adult mice. <i>Blood</i> , 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. <i>Journal of Leukocyte Biology</i> , 2003, 73, 273-280.	3.3	105
49	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. <i>Cell Stem Cell</i> , 2019, 24, 79-92.e6.	11.1	105
50	Reconstitution of Mouse Spermatogonial Stem Cell Niches in Culture. <i>Cell Stem Cell</i> , 2012, 11, 567-578.	11.1	104
51	Reduced retention of radioprotective hematopoietic cells within the bone marrow microenvironment in CXCR4 ^Δ chimeric mice. <i>Blood</i> , 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. <i>Journal of Neuroscience</i> , 2009, 29, 1300-1311.	3.6	99
53	The role of CXCL12 in the organ-specific process of artery formation. <i>Blood</i> , 2005, 105, 3155-3161.	1.4	89
54	Bone Marrow Niches for Hematopoietic Stem Cells and Immune Cells. <i>Inflammation and Allergy: Drug Targets</i> , 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 PDGFR α ⁺ gp38 ⁺ mesenchymal cells support the differentiation of fetal liver α -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. <i>International Immunology</i> , 2019, 31, 5-11.	4.0	35
74	Transient microglial absence assists postmigratory cortical neurons in proper differentiation. <i>Nature Communications</i> , 2020, 11, 1631.	12.8	35
75	CXCR4/fusin Is Not a Species-specific Barrier in Murine Cells for HIV-1 Entry. <i>Journal of Experimental Medicine</i> , 1997, 185, 1865-1870.	8.5	34
76	Isolation and function of mouse tissue resident vascular precursors marked by myelin protein zero. <i>Journal of Experimental Medicine</i> , 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. <i>International Immunology</i> , 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. <i>Immunity</i> , 2020, 52, 542-556.e13.	14.3	33
79	Identification of CXCL12-abundant reticular cells in human adult bone marrow. <i>British Journal of Haematology</i> , 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. <i>Cerebral Cortex</i> , 2010, 20, 2810-2817.	2.9	31
81	The Endothelial Antigen ESAM Monitors Hematopoietic Stem Cell Status between Quiescence and Self-Renewal. <i>Journal of Immunology</i> , 2012, 189, 200-210.	0.8	30
82	Bone marrow CXCR4 induction by cultivation enhances therapeutic angiogenesis. <i>Cardiovascular Research</i> , 2009, 81, 169-177.	3.8	29
83	Group 2 innate lymphoid cells support hematopoietic recovery under stress conditions. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	29
84	Chronic viral infections persistently alter marrow stroma and impair hematopoietic stem cell fitness. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	27
85	Stromal Cell-Derived Factor 1 Regulates the Actin Organization of Chondrocytes and Chondrocyte Hypertrophy. <i>PLoS ONE</i> , 2012, 7, e37163.	2.5	26
86	A Distinct Subset of Fibroblastic Stromal Cells Constitutes the Cortex-Medulla Boundary Subcompartment of the Lymph Node. <i>Frontiers in Immunology</i> , 2018, 9, 2196.	4.8	23
87	Role of Chemokine SDF-1/PBSF and Its Receptor CXCR4 in Blood Vessel Development. <i>Annals of the New York Academy of Sciences</i> , 2001, 947, 112-116.	3.8	21
88	Increased Susceptibility to Severe Chronic Liver Damage in CXCR4 Conditional Knock-Out Mice. <i>Digestive Diseases and Sciences</i> , 2012, 57, 2892-2900.	2.3	19
89	CXCR4 in Tumor Epithelial Cells Mediates Desmoplastic Reaction in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2020, 80, 4058-4070.	0.9	18
90	Establishment of a Novel Mouse Model of Ulcerative Colitis with Concomitant Cytomegalovirus Infection. <i>Inflammatory Bowel Diseases</i> , 2013, 19, 1.	1.9	17

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91	CXCR7 Receptor Controls the Maintenance of Subplial Positioning of Cajalâ€“Retzius Cells. <i>Cerebral Cortex</i> , 2015, 25, 3446-3457.	2.9	17
92	Large quantity production with extreme convenience of human SDF-1 β and SDF-1 α by a Sendai virus vector. <i>FEBS Letters</i> , 1998, 425, 105-111.	2.8	16
93	The critical and specific transcriptional regulator of the microenvironmental niche for hematopoietic stem and progenitor cells. <i>Current Opinion in Hematology</i> , 2015, 22, 330-336.	2.5	16
94	A multistate stem cell dynamics maintains homeostasis in mouse spermatogenesis. <i>Cell Reports</i> , 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. <i>Journal of Neuroscience</i> , 2015, 35, 9211-9224.	3.6	15
96	Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells. <i>Nature Communications</i> , 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. <i>Journal of Immunology</i> , 2013, 190, 3309-3318.	0.8	12
98	New niches for B cells. <i>Nature Immunology</i> , 2008, 9, 345-346.	14.5	11
99	MDS cells impair osteolineage differentiation of MSCs via extracellular vesicles to suppress normal hematopoiesis. <i>Cell Reports</i> , 2022, 39, 110805.	6.4	10
100	Inhibition of stromal cellâ€“derived factor-1 β /CXCR4 signaling restores the blood-retina barrier in pericyte-deficient mouse retinas. <i>JCI Insight</i> , 2018, 3, .	5.0	8
101	CXCR4/CXCL12 signaling impacts enamel progenitor cell proliferation and motility in the dental stem cell niche. <i>Cell and Tissue Research</i> , 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. <i>Developmental Biology</i> , 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. <i>International Immunology</i> , 2021, 33, 821-826.	4.0	4
104	Prolonged high-intensity exercise induces fluctuating immune responses to herpes simplex virus infection via glucocorticoids. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 1575-1588.e7.	2.9	3
105	Emergency Evacuation! Hematopoietic Niches Induce Cell Exit in Infection. <i>Immunity</i> , 2011, 34, 463-465.	14.3	2
106	CXCL12 catches T-ALL at the entrance of the bone marrow. <i>Trends in Immunology</i> , 2015, 36, 504-506.	6.8	1
107	Distinct Contributions By Perivascular Niche Cells in Hematopoietic Stem Cell Maintenance. <i>Blood</i> , 2015, 126, 661-661.	1.4	1
108	Role of CXCL12-Expressing Mesenchymal Stromal Cell Niches in Maintaining Treatment-Resistant Leukemia Stem Cells. <i>Blood</i> , 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. <i>Current Topics in Microbiology and Immunology</i> , 2021, 434, 33-54.	1.1	1
110	Myeloid Cells Stimulate Their Progenitors in an Emergency. <i>Immunity</i> , 2015, 42, 13-14.	14.3	0
111	Fundamental Properties of Native Bone Marrow Perisinusoidal Mesenchymal Stem Cells. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
112	Impaired Osteoblastic Differentiation of MSCs Suppresses Normal Hematopoiesis in MDS. <i>Blood</i> , 2020, 136, 17-18.	1.4	0