

Takashi Nagasawa

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112
papers

17,259
citations

58
h-index

122
g-index

122
ext. papers

19,235
ext. citations

14
avg, IF

6.46
L-index

#	Paper	IF	Citations
112	Defects of B-cell lymphopoiesis and bone-marrow myelopoiesis in mice lacking the CXC chemokine PBSF/SDF-1. <i>Nature</i> , 1996 , 382, 635-8	50.4	2033
111	Maintenance of the hematopoietic stem cell pool by CXCL12-CXCR4 chemokine signaling in bone marrow stromal cell niches. <i>Immunity</i> , 2006 , 25, 977-88	32.3	1707
110	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, 9448-53	11.5	1418
109	The chemokine receptor CXCR4 is essential for vascularization of the gastrointestinal tract. <i>Nature</i> , 1998 , 393, 591-4	50.4	1316
108	CXCL12 in early mesenchymal progenitors is required for haematopoietic stem-cell maintenance. <i>Nature</i> , 2013 , 495, 227-30	50.4	895
107	Cellular niches controlling B lymphocyte behavior within bone marrow during development. <i>Immunity</i> , 2004 , 20, 707-18	32.3	606
106	The essential functions of adipo-osteogenic progenitors as the hematopoietic stem and progenitor cell niche. <i>Immunity</i> , 2010 , 33, 387-99	32.3	588
105	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, 813-23		443
104	Rhythmic modulation of the hematopoietic niche through neutrophil clearance. <i>Cell</i> , 2013 , 153, 1025-35	56.2	409
103	CXCR4 regulates interneuron migration in the developing neocortex. <i>Journal of Neuroscience</i> , 2003 , 23, 5123-30	6.6	379
102	Microenvironmental niches in the bone marrow required for B-cell development. <i>Nature Reviews Immunology</i> , 2006 , 6, 107-16	36.5	347
101	A small molecule CXCR4 inhibitor that blocks T cell line-tropic HIV-1 infection. <i>Journal of Experimental Medicine</i> , 1997 , 186, 1389-93	16.6	344
100	Paranodal junction formation and spermatogenesis require sulfoglycolipids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 4227-32	11.5	266
99	A subset of chondrogenic cells provides early mesenchymal progenitors in growing bones. <i>Nature Cell Biology</i> , 2014 , 16, 1157-67	23.4	265
98	Long-term hematopoietic stem cells require stromal cell-derived factor-1 for colonizing bone marrow during ontogeny. <i>Immunity</i> , 2003 , 19, 257-67	32.3	264
97	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, 5319-23	11.5	257
96	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, 383-94	16.6	218

95	Role of the chemokine SDF-1 as the meningeal attractant for embryonic cerebellar neurons. <i>Nature Neuroscience</i> , 2002 , 5, 719-20	25.5	202
94	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, 179-85	10.7	199
93	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, 912-24	32.3	171
92	Dll4 and Notch signalling couples sprouting angiogenesis and artery formation. <i>Nature Cell Biology</i> , 2017 , 19, 915-927	23.4	171
91	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, 323-34	32.3	164
90	Foxc1 is a critical regulator of haematopoietic stem/progenitor cell niche formation. <i>Nature</i> , 2014 , 508, 536-40	50.4	156
89	Resting zone of the growth plate houses a unique class of skeletal stem cells. <i>Nature</i> , 2018 , 563, 254-258	50.4	156
88	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, 2321-36	16.6	148
87	Hematopoietic Stem Cell Niches Produce Lineage-Instructive Signals to Control Multipotent Progenitor Differentiation. <i>Immunity</i> , 2016 , 45, 1219-1231	32.3	141
86	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, 4649-55	5.3	140
85	A Cxcl12-CXCR4 chemokine signaling pathway defines the initial trajectory of mammalian motor axons. <i>Neuron</i> , 2005 , 47, 667-79	13.9	139
84	Bone marrow graft-versus-host disease: early destruction of hematopoietic niche after MHC-mismatched hematopoietic stem cell transplantation. <i>Blood</i> , 2010 , 115, 5401-11	2.2	129
83	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, 1714-23	12.7	127
82	Thymic development beyond beta-selection requires phosphatidylinositol 3-kinase activation by CXCR4. <i>Journal of Experimental Medicine</i> , 2010 , 207, 247-61	16.6	119
81	CXC chemokine ligand 12 (CXCL12) and its receptor CXCR4. <i>Journal of Molecular Medicine</i> , 2014 , 92, 433-95	3.5	117
80	Neutrophils instruct homeostatic and pathological states in naive tissues. <i>Journal of Experimental Medicine</i> , 2018 , 215, 2778-2795	16.6	116
79	Trans-mesenteric neural crest cells are the principal source of the colonic enteric nervous system. <i>Nature Neuroscience</i> , 2012 , 15, 1211-8	25.5	115
78	Vasculature-associated cells expressing nestin in developing bones encompass early cells in the osteoblast and endothelial lineage. <i>Developmental Cell</i> , 2014 , 29, 330-9	10.2	113

77	Control of hematopoietic stem cells by the bone marrow stromal niche: the role of reticular cells. <i>Trends in Immunology</i> , 2011 , 32, 315-20	14.4	110
76	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, 1977-84	9.4	105
75	Extracellular matrix protein tenascin-C is required in the bone marrow microenvironment primed for hematopoietic regeneration. <i>Blood</i> , 2012 , 119, 5429-37	2.2	103
74	Peripheral nerve-derived CXCL12 and VEGF-A regulate the patterning of arterial vessel branching in developing limb skin. <i>Developmental Cell</i> , 2013 , 24, 359-71	10.2	97
73	Reduced retention of radioprotective hematopoietic cells within the bone marrow microenvironment in CXCR4 ^{-/-} chimeric mice. <i>Blood</i> , 2006 , 107, 2243-51	2.2	95
72	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, 273-80	6.5	90
71	Lhx6 directly regulates Arx and CXCR7 to determine cortical interneuron fate and laminar position. <i>Neuron</i> , 2014 , 82, 350-64	13.9	88
70	Reconstitution of mouse spermatogonial stem cell niches in culture. <i>Cell Stem Cell</i> , 2012 , 11, 567-78	18	88
69	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, 1300-11	6.6	85
68	CXCL12-CXCR4 chemokine signaling is essential for NK-cell development in adult mice. <i>Blood</i> , 2011 , 117, 451-8	2.2	84
67	The role of CXCL12 in the organ-specific process of artery formation. <i>Blood</i> , 2005 , 105, 3155-61	2.2	83
66	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	32.3	81
65	A Wnt-mediated transformation of the bone marrow stromal cell identity orchestrates skeletal regeneration. <i>Nature Communications</i> , 2020 , 11, 332	17.4	80
64	Mesenchymal Niche-Specific Expression of Cxcl12 Controls Quiescence of Treatment-Resistant Leukemia Stem Cells. <i>Cell Stem Cell</i> , 2019 , 24, 769-784.e6	18	77
63	Phenotypic and Morphological Properties of Germinal Center Dark Zone Cxcl12-Expressing Reticular Cells. <i>Journal of Immunology</i> , 2015 , 195, 4781-91	5.3	76
62	C-X-C receptor type 4 promotes metastasis by activating p38 mitogen-activated protein kinase in myeloid differentiation antigen (Gr-1)-positive cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 302-7	11.5	73
61	Bone marrow niches for hematopoietic stem cells and immune cells. <i>Inflammation and Allergy: Drug Targets</i> , 2012 , 11, 201-6		70
60	Peripheral PDGFR β p38 mesenchymal cells support the differentiation of fetal liver-derived ILC2. <i>Journal of Experimental Medicine</i> , 2018 , 215, 1609-1626	16.6	67

59	CXCL12/SDF-1 and CXCR4. <i>Frontiers in Immunology</i> , 2015 , 6, 301	8.4	67
58	Stem cell niche-specific Ebf3 maintains the bone marrow cavity. <i>Genes and Development</i> , 2018 , 32, 359-372.6		66
57	Blockade of CXCL12/CXCR4 axis ameliorates murine experimental colitis. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2008 , 327, 383-92	4.7	66
56	Competition for Mitogens Regulates Spermatogenic Stem Cell Homeostasis in an Open Niche. <i>Cell Stem Cell</i> , 2019 , 24, 79-92.e6	18	66
55	Quantitative spatial analysis of haematopoiesis-regulating stromal cells in the bone marrow microenvironment by 3D microscopy. <i>Nature Communications</i> , 2018 , 9, 2532	17.4	64
54	SDF1/CXCR4 signalling regulates two distinct processes of precerebellar neuronal migration and its depletion leads to abnormal pontine nuclei formation. <i>Development (Cambridge)</i> , 2009 , 136, 1919-28	6.6	56
53	Spi-B is critical for plasmacytoid dendritic cell function and development. <i>Blood</i> , 2012 , 120, 4733-43	2.2	54
52	Development of plasmacytoid dendritic cells in bone marrow stromal cell niches requires CXCL12-CXCR4 chemokine signaling. <i>Blood</i> , 2007 , 110, 4153-60	2.2	54
51	Numerous niches for hematopoietic stem cells remain empty during homeostasis. <i>Blood</i> , 2017 , 129, 2124-2131.49		49
50	The chemokine CXCL12 and regulation of HSC and B lymphocyte development in the bone marrow niche. <i>Advances in Experimental Medicine and Biology</i> , 2007 , 602, 69-75	3.6	49
49	Mechanism of primitive duct formation in the pancreas and submandibular glands: a role for SDF-1. <i>BMC Developmental Biology</i> , 2009 , 9, 66	3.1	48
48	Constitutive plasmacytoid dendritic cell migration to the splenic white pulp is cooperatively regulated by CCR7- and CXCR4-mediated signaling. <i>Journal of Immunology</i> , 2012 , 189, 191-9	5.3	47
47	Remodeling of light and dark zone follicular dendritic cells governs germinal center responses. <i>Nature Immunology</i> , 2020 , 21, 649-659	19.1	42
46	DOCK180 is a Rac activator that regulates cardiovascular development by acting downstream of CXCR4. <i>Circulation Research</i> , 2010 , 107, 1102-5	15.7	41
45	Granulocyte colony-stimulating factor reprograms bone marrow stromal cells to actively suppress B lymphopoiesis in mice. <i>Blood</i> , 2015 , 125, 3114-7	2.2	39
44	A CXC chemokine SDF-1/PBSF: a ligand for a HIV coreceptor, CXCR4. <i>Advances in Immunology</i> , 1999 , 71, 211-28	5.6	37
43	A novel role for factor VIII and thrombin/PAR1 in regulating hematopoiesis and its interplay with the bone structure. <i>Blood</i> , 2013 , 122, 2562-71	2.2	32
42	CXCR4/fusin is not a species-specific barrier in murine cells for HIV-1 entry. <i>Journal of Experimental Medicine</i> , 1997 , 185, 1865-70	16.6	30

41	Isolation and function of mouse tissue resident vascular precursors marked by myelin protein zero. <i>Journal of Experimental Medicine</i> , 2011 , 208, 949-60	16.6	29
40	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, 2810-7	5.1	26
39	Bone marrow CXCR4 induction by cultivation enhances therapeutic angiogenesis. <i>Cardiovascular Research</i> , 2009 , 81, 169-77	9.9	25
38	Pathologic angiogenesis in the bone marrow of humanized sickle cell mice is reversed by blood transfusion. <i>Blood</i> , 2020 , 135, 2071-2084	2.2	25
37	The endothelial antigen ESAM monitors hematopoietic stem cell status between quiescence and self-renewal. <i>Journal of Immunology</i> , 2012 , 189, 200-10	5.3	23
36	Stromal cell-derived factor 1 regulates the actin organization of chondrocytes and chondrocyte hypertrophy. <i>PLoS ONE</i> , 2012 , 7, e37163	3.7	22
35	Niches for hematopoietic stem cells and immune cell progenitors. <i>International Immunology</i> , 2019 , 31, 5-11	4.9	21
34	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	4.9	18
33	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	8.4	18
32	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, 112-5; discussion 115-6	6.5	17
31	Increased susceptibility to severe chronic liver damage in CXCR4 conditional knock-out mice. <i>Digestive Diseases and Sciences</i> , 2012 , 57, 2892-900	4	16
30	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	32.3	15
29	Transient microglial absence assists postmigratory cortical neurons in proper differentiation. <i>Nature Communications</i> , 2020 , 11, 1631	17.4	15
28	Establishment of a novel mouse model of ulcerative colitis with concomitant cytomegalovirus infection: in vivo identification of cytomegalovirus persistent infected cells. <i>Inflammatory Bowel Diseases</i> , 2013 , 19, 1951-63	4.5	15
27	Large quantity production with extreme convenience of human SDF-1alpha and SDF-1beta by a Sendai virus vector. <i>FEBS Letters</i> , 1998 , 425, 105-11	3.8	15
26	Upregulation of VCAM-1 in lymphatic collectors supports dendritic cell entry and rapid migration to lymph nodes in inflammation. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	14
25	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, 9211-24	6.6	13
24	The critical and specific transcriptional regulator of the microenvironmental niche for hematopoietic stem and progenitor cells. <i>Current Opinion in Hematology</i> , 2015 , 22, 330-6	3.3	13

23	CXCR7 Receptor Controls the Maintenance of Subpial Positioning of Cajal-Retzius Cells. <i>Cerebral Cortex</i> , 2015 , 25, 3446-57	5.1	12
22	Identification of CXCL12-abundant reticular cells in human adult bone marrow. <i>British Journal of Haematology</i> , 2021 , 193, 659-668	4.5	11
21	Group 2 innate lymphoid cells support hematopoietic recovery under stress conditions. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	9
20	CXCR4 in Tumor Epithelial Cells Mediates Desmoplastic Reaction in Pancreatic Ductal Adenocarcinoma. <i>Cancer Research</i> , 2020 , 80, 4058-4070	10.1	7
19	Peyer'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, 3309-18	5.3	7
18	CXCR4/CXCL12 signaling impacts enamel progenitor cell proliferation and motility in the dental stem cell niche. <i>Cell and Tissue Research</i> , 2015 , 362, 633-42	4.2	4
17	Inhibition of stromal cell-derived factor-1/CXCR4 signaling restores the blood-retina barrier in pericyte-deficient mouse retinas. <i>JCI Insight</i> , 2018 , 3,	9.9	3
16	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, 1182	32.3	2
15	Emergency evacuation! Hematopoietic niches induce cell exit in infection. <i>Immunity</i> , 2011 , 34, 463-5	32.3	2
14	Identification of microenvironmental niches for hematopoietic stem cells and lymphoid progenitors-bone marrow fibroblastic reticular cells with salient features. <i>International Immunology</i> , 2021 , 33, 821-826	4.9	2
13	A multistate stem cell dynamics maintains homeostasis in mouse spermatogenesis. <i>Cell Reports</i> , 2021 , 37, 109875	10.6	2
12	Chronic viral infections persistently alter marrow stroma and impair hematopoietic stem cell fitness. <i>Journal of Experimental Medicine</i> , 2021 , 218,	16.6	2
11	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	11.5	2
10	CXCL12 catches T-ALL at the entrance of the bone marrow. <i>Trends in Immunology</i> , 2015 , 36, 504-6	14.4	1
9	CD8 T cells induce destruction of bone marrow stromal niches and hematopoietic stem cell dysfunction in chronic viral infections		1
8	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	3.1	1
7	Role of CXCL12-Expressing Mesenchymal Stromal Cell Niches in Maintaining Treatment-Resistant Leukemia Stem Cells. <i>Blood</i> , 2018 , 132, 1291-1291	2.2	0
6	MDS cells impair osteolineage differentiation of MSCs via extracellular vesicles to suppress normal hematopoiesis.. <i>Cell Reports</i> , 2022 , 39, 110805	10.6	0

5	Runx1 and Runx2 inhibit fibrotic conversion of cellular niches for hematopoietic stem cells.. <i>Nature Communications</i> , 2022 , 13, 2654	17.4	○
4	Myeloid cells stimulate their progenitors in an emergency. <i>Immunity</i> , 2015 , 42, 13-4	32.3	
3	Impaired Osteoblastic Differentiation of MSCs Suppresses Normal Hematopoiesis in MDS. <i>Blood</i> , 2020 , 136, 17-18	2.2	
2	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	3.3	
1	Distinct Contributions By Perivascular Niche Cells in Hematopoietic Stem Cell Maintenance. <i>Blood</i> , 2015 , 126, 661-661	2.2	