Frederic Geissmann

List of Publications by Year
in descending order

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125 papers	39,167 citations	9786 73 h-index	17105 122 g-index
132 all docs	132 docs citations	132 times ranked	39238 citing authors

#	Article	IF	Citations
1	Blood Monocytes Consist of Two Principal Subsets with Distinct Migratory Properties. Immunity, 2003, 19, 71-82.	14.3	2,947
2	Development of Monocytes, Macrophages, and Dendritic Cells. Science, 2010, 327, 656-661.	12.6	2,471
3	A Lineage of Myeloid Cells Independent of Myb and Hematopoietic Stem Cells. Science, 2012, 336, 86-90.	12.6	2,084
4	Tissue-resident macrophages originate from yolk-sac-derived erythro-myeloid progenitors. Nature, 2015, 518, 547-551.	27.8	1,724
5	Monitoring of Blood Vessels and Tissues by a Population of Monocytes with Patrolling Behavior. Science, 2007, 317, 666-670.	12.6	1,637
6	Activation-Induced Cytidine Deaminase (AID) Deficiency Causes the Autosomal Recessive Form of the Hyper-IgM Syndrome (HIGM2). Cell, 2000, 102, 565-575.	28.9	1,489
7	Blood Monocytes: Development, Heterogeneity, and Relationship with Dendritic Cells. Annual Review of Immunology, 2009, 27, 669-692.	21.8	1,345
8	Microglia emerge from erythromyeloid precursors via Pu.1- and Irf8-dependent pathways. Nature Neuroscience, 2013, 16, 273-280.	14.8	1,121
9	Environment Drives Selection and Function of Enhancers Controlling Tissue-Specific Macrophage Identities. Cell, 2014, 159, 1327-1340.	28.9	1,078
10	Human CD14dim Monocytes Patrol and Sense Nucleic Acids and Viruses via TLR7 and TLR8 Receptors. Immunity, 2010, 33, 375-386.	14.3	1,060
11	TLR3 Deficiency in Patients with Herpes Simplex Encephalitis. Science, 2007, 317, 1522-1527.	12.6	970
12	A Clonogenic Bone Marrow Progenitor Specific for Macrophages and Dendritic Cells. Science, 2006, 311, 83-87.	12.6	924
13	Constant replenishment from circulating monocytes maintains the macrophage pool in the intestine of adult mice. Nature Immunology, 2014, 15, 929-937.	14.5	921
14	Origin, fate and dynamics of macrophages at central nervous system interfaces. Nature Immunology, 2016, 17, 797-805.	14.5	872
15	X-linked anhidrotic ectodermal dysplasia with immunodeficiency is caused by impaired NF-ÎºB signaling. Nature Genetics, 2001, 27, 277-285.	21.4	784
16	Monocytes in atherosclerosis: subsets and functions. Nature Reviews Cardiology, 2010, 7, 77-86.	13.7	747
17	Herpes Simplex Virus Encephalitis in Human UNC-93B Deficiency. Science, 2006, 314, 308-312.	12.6	674
18	Nr4a1-Dependent Ly6Clow Monocytes Monitor Endothelial Cells and Orchestrate Their Disposal. Cell, 2013, 153, 362-375.	28.9	621

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19	Specification of tissue-resident macrophages during organogenesis. Science, 2016, 353, .	12.6	609
20	Intravascular Immune Surveillance by CXCR6+ NKT Cells Patrolling Liver Sinusoids. PLoS Biology, 2005, 3, e113.	5.6	590
21	IRF8Mutations and Human Dendritic-Cell Immunodeficiency. New England Journal of Medicine, 2011, 365, 127-138.	27.0	564
22	Monocytes give rise to mucosal, but not splenic, conventional dendritic cells. Journal of Experimental Medicine, 2007, 204, 171-180.	8.5	553
23	The transcription factor NR4A1 (Nur77) controls bone marrow differentiation and the survival of Ly6Câ^' monocytes. Nature Immunology, 2011, 12, 778-785.	14.5	523
24	Transforming Growth Factor Î²1, in the Presence of Granulocyte/Macrophage Colony-stimulating Factor and Interleukin 4, Induces Differentiation of Human Peripheral Blood Monocytes into Dendritic Langerhans Cells. Journal of Experimental Medicine, 1998, 187, 961-966.	8.5	488
25	The development and maintenance of resident macrophages. Nature Immunology, 2016, 17, 2-8.	14.5	474
26	Unravelling mononuclear phagocyte heterogeneity. Nature Reviews Immunology, 2010, 10, 453-460.	22.7	461
27	The trafficking of natural killer cells. Immunological Reviews, 2007, 220, 169-182.	6.0	460
28	Life-threatening influenza and impaired interferon amplification in human IRF7 deficiency. Science, 2015, 348, 448-453.	12.6	389
29	NR4A1 (Nur77) Deletion Polarizes Macrophages Toward an Inflammatory Phenotype and Increases Atherosclerosis. Circulation Research, 2012, 110, 416-427.	4.5	380
30	Selective predisposition to bacterial infections in IRAK-4â€“deficient children: IRAK-4â€“dependent TLRs are otherwise redundant in protective immunity. Journal of Experimental Medicine, 2007, 204, 2407-2422.	8.5	374
31	CX3CR1+ CD115+ CD135+ common macrophage/DC precursors and the role of CX3CR1 in their response to inflammation. Journal of Experimental Medicine, 2009, 206, 595-606.	8.5	364
32	Blood monocytes: distinct subsets, how they relate to dendritic cells, and their possible roles in the regulation of Tâ€cell responses. Immunology and Cell Biology, 2008, 86, 398-408.	2.3	329
33	Langerhans cell (LC) proliferation mediates neonatal development, homeostasis, and inflammation-associated expansion of the epidermal LC network. Journal of Experimental Medicine, 2009, 206, 3089-3100.	8.5	328
34	Developmental origin, functional maintenance and genetic rescue of osteoclasts. Nature, 2019, 568, 541-545.	27.8	313
35	TGF-beta 1 prevents the noncognate maturation of human dendritic Langerhans cells. Journal of Immunology, 1999, 162, 4567-75.	0.8	282
36	Long-lived self-renewing bone marrow-derived macrophages displace embryo-derived cells to inhabit adult serous cavities. Nature Communications, 2016, 7, ncomms11852.	12.8	275

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37	Partial MCM4 deficiency in patients with growth retardation, adrenal insufficiency, and natural killer cell deficiency. Journal of Clinical Investigation, 2012, 122, 821-832.	8.2	272
38	X-linked susceptibility to mycobacteria is caused by mutations in NEMO impairing CD40-dependent IL-12 production. Journal of Experimental Medicine, 2006, 203, 1745-1759.	8.5	264
39	Herpes simplex virus encephalitis in a patient with complete TLR3 deficiency: TLR3 is otherwise redundant in protective immunity. Journal of Experimental Medicine, 2011, 208, 2083-2098.	8.5	262
40	Accumulation of Immature Langerhans Cells in Human Lymph Nodes Draining Chronically Inflamed Skin. Journal of Experimental Medicine, 2002, 196, 417-430.	8.5	246
41	Human TLR-7-, -8-, and -9-Mediated Induction of IFN-Î±/Î² and -Î» Is IRAK-4 Dependent and Redundant for Protective Immunity to Viruses. Immunity, 2005, 23, 465-478.	14.3	245
42	Genetic Evidence Supporting Selection of the VÎ±14i NKT Cell Lineage from Double-Positive Thymocyte Precursors. Immunity, 2005, 22, 705-716.	14.3	240
43	The Heterogeneity of Ly6Chi Monocytes Controls Their Differentiation into iNOS+ Macrophages or Monocyte-Derived Dendritic Cells. Immunity, 2016, 45, 1205-1218.	14.3	237
44	Liver-Derived Signals Sequentially Reprogram Myeloid Enhancers to Initiate and Maintain Kupffer Cell Identity. Immunity, 2019, 51, 655-670.e8.	14.3	234
45	BRAF Mutation Correlates With High-Risk Langerhans Cell Histiocytosis and Increased Resistance to First-Line Therapy. Journal of Clinical Oncology, 2016, 34, 3023-3030.	1.6	233
46	Differentiation of Langerhans cells in Langerhans cell histiocytosis. Blood, 2001, 97, 1241-1248.	1.4	227
47	Lymphomyeloid Contribution of an Immune-Restricted Progenitor Emerging Prior to Definitive Hematopoietic Stem Cells. Cell Stem Cell, 2013, 13, 535-548.	11.1	225
48	Macrophages of distinct origins contribute to tumor development in the lung. Journal of Experimental Medicine, 2018, 215, 2536-2553.	8.5	203
49	Yolk sac macrophage progenitors traffic to the embryo during defined stages of development. Nature Communications, 2018, 9, 75.	12.8	194
50	MEF2 Is an InÂVivo Immune-Metabolic Switch. Cell, 2013, 155, 435-447.	28.9	174
51	Neutralization of IFNÎ³ defeats haemophagocytosis in LCMVâ€infected perforinâ€and Rab27aâ€deficient mice. EMBO Molecular Medicine, 2009, 1, 112-124.	6.9	165
52	Immune Monitoring of Trans-endothelial Transport by Kidney-Resident Macrophages. Cell, 2016, 166, 991-1003.	28.9	154
53	Human IFN-Î³ immunity to mycobacteria is governed by both IL-12 and IL-23. Science Immunology, 2018, 3, .	11.9	152
54	Infected splenic dendritic cells are sufficient for prion transmission to the CNS in mouse scrapie. Journal of Clinical Investigation, 2001, 108, 703-708.	8.2	152

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55	Development and homeostasis of â€œresidentâ€•myeloid cells: The case of the microglia. Glia, 2013, 61, 112-120.	4.9	151
56	Macrophage-Derived upd3 Cytokine Causes Impaired Glucose Homeostasis and Reduced Lifespan in Drosophila Fed a Lipid-Rich Diet. Immunity, 2015, 42, 133-144.	14.3	148
57	Tuberculosis and impaired IL-23â€“dependent IFN-Î³ immunity in humans homozygous for a common TYK2 missense variant. Science Immunology, 2018, 3, .	11.9	148
58	A somatic mutation in erythro-myeloid progenitors causes neurodegenerative disease. Nature, 2017, 549, 389-393.	27.8	144
59	Retinoids Regulate Survival and Antigen Presentation by Immature Dendritic Cells. Journal of Experimental Medicine, 2003, 198, 623-634.	8.5	143
60	A Subset of Human Dendritic Cells Expresses IgA Fc Receptor (CD89), Which Mediates Internalization and Activation Upon Cross-Linking by IgA Complexes. Journal of Immunology, 2001, 166, 346-352.	0.8	141
61	Dendritic cells are early cellular targets of Listeria monocytogenes after intestinal delivery and are involved in bacterial spread in the host. Cellular Microbiology, 2001, 3, 331-340.	2.1	138
62	B-RAF Mutant Alleles Associated with Langerhans Cell Histiocytosis, a Granulomatous Pediatric Disease. PLoS ONE, 2012, 7, e33891.	2.5	132
63	Expansion of Regulatory T Cells in Patients with Langerhans Cell Histiocytosis. PLoS Medicine, 2007, 4, e253.	8.4	128
64	Cxcr4 distinguishes HSC-derived monocytes from microglia and reveals monocyte immune responses to experimental stroke. Nature Neuroscience, 2020, 23, 351-362.	14.8	123
65	Activating mutations in CSF1R and additional receptor tyrosine kinases in histiocytic neoplasms. Nature Medicine, 2019, 25, 1839-1842.	30.7	122
66	Inherited GINS1 deficiency underlies growth retardation along with neutropenia and NK cell deficiency. Journal of Clinical Investigation, 2017, 127, 1991-2006.	8.2	115
67	Regulation of Monocyte Functional Heterogeneity by miR-146a and Relb. Cell Reports, 2012, 1, 317-324.	6.4	105
68	Disruption of an antimycobacterial circuit between dendritic and helper T cells in human SPPL2a deficiency. Nature Immunology, 2018, 19, 973-985.	14.5	96
69	TNF-Î± blockade induces IL-10 expression in human CD4+ T cells. Nature Communications, 2014, 5, 3199.	12.8	95
70	Origins, Biology, and Diseases of Tissue Macrophages. Annual Review of Immunology, 2021, 39, 313-344.	21.8	88
71	Selective Nanoparticle Targeting of the Renal Tubules. Hypertension, 2018, 71, 87-94.	2.7	85
72	Multiple TGF-Î² Superfamily Signals Modulate the Adult Drosophila Immune Response. Current Biology, 2011, 21, 1672-1677.	3.9	84

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73	Diet-regulated production of PDGFcc by macrophages controls energy storage. Science, 2021, 373, .	12.6	84
74	Langerin negative dendritic cells promote potent CD8 ⁺ T-cell priming by skin delivery of live adenovirus vaccine microneedle arrays. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 3041-3046.	7.1	82
75	Monocytes control natural killer cell differentiation to effector phenotypes. Blood, 2011, 117, 4511-4518.	1.4	80
76	Development and function of tissue resident macrophages in mice. Seminars in Immunology, 2015, 27, 369-378.	5.6	79
77	Severe combined immunodeficiency caused by deficiency in either the Î´ or the Îµ subunit of CD3. Journal of Clinical Investigation, 2004, 114, 1512-1517.	8.2	78
78	Interaction with activated monocytes enhances cytokine expression and suppressive activity of human CD4+CD45ro+CD25+CD127^{low} regulatory T cells. Arthritis and Rheumatism, 2013, 65, 627-638.	6.7	76
79	The Origin of Tissue-Resident Macrophages: When an Erythro-myeloid Progenitor Is an Erythro-myeloid Progenitor. Immunity, 2015, 43, 1023-1024.	14.3	76
80	Digestive tract involvement in Langerhans cell histiocytosis. Journal of Pediatrics, 1996, 129, 836-845.	1.8	71
81	Lack of expression of E-cadherin is associated with dissemination of Langerhans' cell histiocytosis and poor outcome. Journal of Pathology, 1997, 181, 301-304.	4.5	66
82	Fuz Mutant Mice Reveal Shared Mechanisms between Ciliopathies and FGF-Related Syndromes. Developmental Cell, 2013, 25, 623-635.	7.0	65
83	Adult Drosophila Lack Hematopoiesis but Rely on a Blood Cell Reservoir at the Respiratory Epithelia to Relay Infection Signals to Surrounding Tissues. Developmental Cell, 2019, 51, 787-803.e5.	7.0	64
84	Toward a functional characterization of blood monocytes. Immunology and Cell Biology, 2011, 89, 2-4.	2.3	60
85	Retinoic acid therapy in â€œdegenerative-likeâ€•neuro-langerhans cell histiocytosis: A prospective pilot study. Pediatric Blood and Cancer, 2004, 43, 55-58.	1.5	58
86	Inflammatory Monocytes and Neutrophils Are Licensed to Kill during Memory Responses In Vivo. PLoS Pathogens, 2011, 7, e1002457.	4.7	56
87	A Griscelli syndrome type 2 murine model of hemophagocytic lymphohistiocytosis (HLH). European Journal of Immunology, 2008, 38, 3219-3225.	2.9	54
88	Development and homeostasis of â€˜residentâ€™ myeloid cells: the case of the Langerhans cell. Trends in Immunology, 2010, 31, 438-445.	6.8	53
89	Initial seeding of the embryonic thymus by immune-restricted lympho-myeloid progenitors. Nature Immunology, 2016, 17, 1424-1435.	14.5	49
90	Herpes-Virus Infection in Patients with Langerhans Cell Histiocytosis: A Case-Controlled Sero-Epidemiological Study, and In Situ Analysis. PLoS ONE, 2008, 3, e3262.	2.5	48

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91	The origin of dendritic cells. Nature Immunology, 2007, 8, 558-560.	14.5	45
92	IRF4 haploinsufficiency in a family with Whippleâ€™s disease. ELife, 2018, 7, .	6.0	43
93	Langerhans cells regulate cutaneous injury by licensing CD8 effector cells recruited to the skin. Blood, 2011, 117, 7063-7069.	1.4	41
94	The transcription factor NR4A1 is essential for the development of a novel macrophage subset in the thymus. Scientific Reports, 2015, 5, 10055.	3.3	39
95	Homing Receptor Î±4Î²7 Integrin Expression Predicts Digestive Tract Involvement in Mantle Cell Lymphoma. American Journal of Pathology, 1998, 153, 1701-1705.	3.8	38
96	Myb-Independent Macrophages: A Family of Cells That Develops with Their Tissue of Residence and Is Involved in Its Homeostasis. Cold Spring Harbor Symposia on Quantitative Biology, 2013, 78, 91-100.	1.1	35
97	Heterogeneity in the Locomotory Behavior of Human Monocyte Subsets over Human Vascular Endothelium In Vitro. Journal of Immunology, 2015, 195, 1162-1170.	0.8	33
98	Macrophage ontogeny in the control of adipose tissue biology. Current Opinion in Immunology, 2020, 62, 1-8.	5.5	29
99	A stratified myeloid system, the challenge of understanding macrophage diversity. Seminars in Immunology, 2015, 27, 353-356.	5.6	28
100	NR4A1 Deletion in Marginal Zone B Cells Exacerbates Atherosclerosis in Miceâ€”Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 2598-2604.	2.4	27
101	Langerhans cell deficiency in reticular dysgenesis. Blood, 2000, 96, 58-62.	1.4	27
102	Splenic CD8Î±⁺ dendritic cells undergo rapid programming by cytosolic bacteria and inflammation to induce protective CD8⁺ Tâ€cell memory. European Journal of Immunology, 2011, 41, 1594-1605.	2.9	26
103	Normal CD40-mediated activation of monocytes and dendritic cells from patients with hyper-IgM syndrome due to a CD40 pathway defect in B cells. European Journal of Immunology, 1998, 28, 3648-3654.	2.9	25
104	FAS/FAS-L dependent killing of activated human monocytes and macrophages by CD4+CD25â^' responder T cells, but not CD4+CD25+ regulatory T cells. Journal of Autoimmunity, 2012, 38, 29-38.	6.5	24
105	The detection of CD14 and CD16 in paraffin-embedded bone marrow biopsies is useful for the diagnosis of chronic myelomonocytic leukemia. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2009, 454, 411-419.	2.8	22
106	Histone deacetylase 3 controls lung alveolar macrophage development and homeostasis. Nature Communications, 2020, 11, 3822.	12.8	22
107	Inherited human c-Rel deficiency disrupts myeloid and lymphoid immunity to multiple infectious agents. Journal of Clinical Investigation, 2021, 131, .	8.2	21
108	The Class 6 Semaphorin SEMA6A Is Induced by Interferon-Î³ and Defines an Activation Status of Langerhans Cells Observed in Pathological Situations. American Journal of Pathology, 2006, 168, 453-465.	3.8	19

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109	Homeostasis of dendritic cell pool in lymphoid organs. Nature Immunology, 2008, 9, 584-586.	14.5	18
110	Identifying the infiltrators. Science, 2014, 344, 801-802.	12.6	15
111	Measuring Intravascular Migration of Mouse Ly6C low Monocytes In Vivo Using Intravital Microscopy. Current Protocols in Immunology, 2013, 101, Unit 14.33.1-16.	3.6	13
112	CD101 expression by Langerhans cell histiocytosis cells. Histopathology, 2000, 36, 229-232.	2.9	12
113	No association between Langerhans cell histiocytosis and human herpes virus 8. Medical and Pediatric Oncology, 2002, 39, 187-189.	1.0	11
114	Activating Mutations in CSF1R and Additional Receptor Tyrosine Kinases in Sporadic and Familial Histiocytic Neoplasms. Blood, 2018, 132, 49-49.	1.4	10
115	Roles of lymphoid cells in the differentiation of Langerhans dendritic cells in mice. Immunobiology, 2004, 209, 209-221.	1.9	9
116	Environment Drives Selection and Function of Enhancers Controlling Tissue-Specific Macrophage Identities. Cell, 2015, 160, 351-352.	28.9	9
117	Toxoplasma-Induced Cystitis in a Patient with AIDS. Clinical Infectious Diseases, 1994, 18, 453-454.	5.8	6
118	IL-13 Is More Efficient than IL-4 for Recruiting Langerhans Cell Precursors from Peripheral CD14+ Monocytes. Exogenous Dermatology, 2002, 1, 279-289.	0.5	4
119	Inducible disruption of the c-myb gene allows allogeneic bone marrow transplantation without irradiation. Journal of Immunological Methods, 2018, 457, 66-72.	1.4	4
120	Les cellules de Langerhans au cours des gingivites et des parodontites.. Medecine/Sciences, 1998, 14, 1222.	0.2	3
121	Blood Cells of Adult <I>Drosophila</I> Do Not Expand, But Control Survival after Bacterial Infection by Induction of <I>Drosocin</I> Around Their Reservoir at the Respiratory Epithelia. SSRN Electronic Journal, 0, , .	0.4	1
122	The real thing: How to make human DC subsets. Journal of Experimental Medicine, 2015, 212, 285-285.	8.5	0
123	Embryonic thymopoiesis is initiated by an immune-restricted lympho-myeloid progenitor, independently of notch signaling. Experimental Hematology, 2017, 53, S113-S114.	0.4	0
124	Editorial overview: Innate immunity from a phylogenic perspective. Current Opinion in Immunology, 2020, 62, iii-v.	5.5	0
125	Monocytes give rise to mucosal, but not splenic, conventional dendritic cells. Journal of Cell Biology, 2007, 176, i3-i3.	5.2	0