David Traver

List of Publications by Year
in descending order

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121
papers

16,724
citations

23567
58
h-index

22832
112
g-index

140
all docs

140
docs citations

140
times ranked

18595
citing authors

#	ARTICLE	IF	CITATIONS
1	A clonogenic common myeloid progenitor that gives rise to all myeloid lineages. Nature, 2000, 404, 193-197.	27.8	2,194
2	CD47 Is Upregulated on Circulating Hematopoietic Stem Cells and Leukemia Cells to Avoid Phagocytosis. Cell, 2009, 138, 271-285.	28.9	1,282
3	Haematopoietic stem cells derive directly from aortic endothelium during development. Nature, 2010, 464, 108-111.	27.8	885
4	Transplantation and in vivo imaging of multilineage engraftment in zebrafish bloodless mutants. Nature Immunology, 2003, 4, 1238-1246.	14.5	718
5	BRAF Mutations Are Sufficient to Promote Nevi Formation and Cooperate with p53 in the Genesis of Melanoma. Current Biology, 2005, 15, 249-254.	3.9	626
6	The Use of Zebrafish to Understand Immunity. Immunity, 2004, 20, 367-379.	14.3	557
7	Mitoferrin is essential for erythroid iron assimilation. Nature, 2006, 440, 96-100.	27.8	514
8	Myc-Induced T Cell Leukemia in Transgenic Zebrafish. Science, 2003, 299, 887-890.	12.6	506
9	In vivo tracking of T cell development, ablation, and engraftment in transgenic zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 7369-7374.	7.1	389
10	Hematopoietic stem cell fate is established by the Notchâ€“Runx pathway. Genes and Development, 2005, 19, 2331-2342.	5.9	358
11	Dendritic cell potentials of early lymphoid and myeloid progenitors. Blood, 2001, 97, 3333-3341.	1.4	357
12	Mutations in the Cilia Gene ARL13B Lead to the Classical Form of Joubert Syndrome. American Journal of Human Genetics, 2008, 83, 170-179.	6.2	352
13	Analysis of thrombocyte development in CD41-GFP transgenic zebrafish. Blood, 2005, 106, 3803-3810.	1.4	341
14	Intrinsic Requirement for Zinc Finger Transcription Factor Gfi-1 in Neutrophil Differentiation. Immunity, 2003, 18, 109-120.	14.3	334
15	Expression of CD41 marks the initiation of definitive hematopoiesis in the mouse embryo. Blood, 2003, 101, 508-516.	1.4	328
16	Definitive hematopoiesis initiates through a committed erythromyeloid progenitor in the zebrafish embryo. Development (Cambridge), 2007, 134, 4147-4156.	2.5	289
17	Proinflammatory Signaling Regulates Hematopoietic Stem Cell Emergence. Cell, 2014, 159, 1070-1085.	28.9	262
18	Identification of dendritic antigen-presenting cells in the zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 15850-15855.	7.1	222

#	ARTICLE	IF	CITATIONS
19	High-Throughput Chemical Screen Identifies a Novel Potent Modulator of Cellular Circadian Rhythms and Reveals CKIÎ± as a Clock Regulatory Kinase. PLoS Biology, 2010, 8, e1000559.	5.6	216
20	Plasmacytoid Dendritic Cells Activate Lymphoid-Specific Genetic Programs Irrespective of Their Cellular Origin. Immunity, 2004, 21, 43-53.	14.3	211
21	CD41+ cmyb+ precursors colonize the zebrafish pronephros by a novel migration route to initiate adult hematopoiesis. Development (Cambridge), 2008, 135, 1853-1862.	2.5	197
22	A somitic Wnt16/Notch pathway specifies haematopoietic stem cells. Nature, 2011, 474, 220-224.	27.8	192
23	Characterization of the mononuclear phagocyte system in zebrafish. Blood, 2011, 117, 7126-7135.	1.4	186
24	Mice Defective in Two Apoptosis Pathways in the Myeloid Lineage Develop Acute Myeloblastic Leukemia. Immunity, 1998, 9, 47-57.	14.3	171
25	An evolutionarily conserved program of B-cell development and activation in zebrafish. Blood, 2013, 122, e1-e11.	1.4	163
26	Effects of lethal irradiation in zebrafish and rescue by hematopoietic cell transplantation. Blood, 2004, 104, 1298-1305.	1.4	161
27	Expression of<i>BCR/ABL</i>and<i>BCL-2</i>in myeloid progenitors leads to myeloid leukemias. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 10002-10007.	7.1	156
28	The Hox cofactor and proto-oncogene Pbx1 is required for maintenance of definitive hematopoiesis in the fetal liver. Blood, 2001, 98, 618-626.	1.4	147
29	Eosinophils in the zebrafish: prospective isolation, characterization, and eosinophilia induction by helminth determinants. Blood, 2010, 116, 3944-3954.	1.4	147
30	T-Lymphoblastic Lymphoma Cells Express High Levels of BCL2, S1P1, and ICAM1, Leading to a Blockade of Tumor Cell Intravasation. Cancer Cell, 2010, 18, 353-366.	16.8	141
31	The zebrafish as a model organism to study development of the immune system. Advances in Immunology, 2003, 81, 253-330.	2.2	135
32	The pu.1 promoter drives myeloid gene expression in zebrafish. Blood, 2004, 104, 1291-1297.	1.4	133
33	Signalling pathways that control vertebrate haematopoietic stem cell specification. Nature Reviews Immunology, 2013, 13, 336-348.	22.7	126
34	Jam1aâ€"Jam2a interactions regulate haematopoietic stem cell fate through Notch signalling. Nature, 2014, 512, 319-323.	27.8	126
35	Small Moleculeâ€"Mediated Activation of the Integrin CD11b/CD18 Reduces Inflammatory Disease. Science Signaling, 2011, 4, ra57.	3.6	118
36	The Zebrafish moonshine Gene Encodes Transcriptional Intermediary Factor 1Î³, an Essential Regulator of Hematopoiesis. PLoS Biology, 2004, 2, e237.	5.6	117

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37	Gata2b is a restricted early regulator of hemogenic endothelium in the zebrafish embryo. Development (Cambridge), 2015, 142, 1050-1061.	2.5	117
38	Bacterial induction of Snail1 contributes to blood-brain barrier disruption. Journal of Clinical Investigation, 2015, 125, 2473-2483.	8.2	114
39	Fetal liver myelopoiesis occurs through distinct, prospectively isolatable progenitor subsets. Blood, 2001, 98, 627-635.	1.4	112
40	The Zebrafish as a Model Organism to Study Development of the Immune System. Advances in Immunology, 2003, , 254-330.	2.2	104
41	Myeloid progenitors protect against invasive aspergillosis andPseudomonas aeruginosa infection following hematopoietic stem cell transplantation. Blood, 2002, 100, 4660-4667.	1.4	102
42	Low natural killer cell cytotoxic activity in autism: The role of glutathione, IL-2 and IL-15. Journal of Neuroimmunology, 2008, 205, 148-154.	2.3	99
43	Notch signaling distinguishes 2 waves of definitive hematopoiesis in the zebrafish embryo. Blood, 2010, 115, 2777-2783.	1.4	97
44	Regulation of the lmo2 promoter during hematopoietic and vascular development in zebrafish. Developmental Biology, 2005, 281, 256-269.	2.0	95
45	Myeloerythroid-restricted progenitors are sufficient to confer radioprotection and provide the majority of day 8 CFU-S. Journal of Clinical Investigation, 2002, 109, 1579-1585.	8.2	95
46	Clonal fate mapping quantifies the number ofÂhaematopoietic stem cells that arise duringÂdevelopment. Nature Cell Biology, 2017, 19, 17-27.	10.3	90
47	AIBP-mediated cholesterol efflux instructs hematopoietic stem and progenitor cell fate. Science, 2019, 363, 1085-1088.	12.6	90
48	Discrete Notch signaling requirements in the specification of hematopoietic stem cells. EMBO Journal, 2014, 33, 2363-2373.	7.8	87
49	De Novo Mutations in SON Disrupt RNA Splicing of Genes Essential for Brain Development and Metabolism, Causing an Intellectual-Disability Syndrome. American Journal of Human Genetics, 2016, 99, 711-719.	6.2	81
50	Embryonic Microglia Derive from Primitive Macrophages and Are Replaced by cmyb-Dependent Definitive Microglia in Zebrafish. Cell Reports, 2018, 24, 130-141.	6.4	81
51	Ferroportin1 is required for normal iron cycling in zebrafish. Journal of Clinical Investigation, 2005, 115, 1532-1541.	8.2	80
52	Zebrafish kidney stromal cell lines support multilineage hematopoiesis. Blood, 2009, 114, 279-289.	1.4	74
53	Cellular Dissection of Zebrafish Hematopoiesis. Methods in Cell Biology, 2011, 101, 75-110.	1.1	72
54	The NF-ÎºB family: Key players during embryonic development and HSCÂemergence. Experimental Hematology, 2016, 44, 519-527.	0.4	71

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55	Hematopoietic cell development in the zebrafish embryo. Current Opinion in Hematology, 2009, 16, 243-248.	2.5	68
56	Biallelic mutations in the 3â€² exonuclease TOE1 cause pontocerebellar hypoplasia and uncover a role in snRNA processing. Nature Genetics, 2017, 49, 457-464.	21.4	66
57	Walking the Walk. Cell, 2002, 108, 731-734.	28.9	64
58	Cellular Dissection of Zebrafish Hematopoiesis. Methods in Cell Biology, 2004, 76, 127-149.	1.1	64
59	Complex regulation of HSC emergence by the Notch signaling pathway. Developmental Biology, 2016, 409, 129-138.	2.0	64
60	A Systems Biology Approach for Defining the Molecular Framework of the Hematopoietic Stem Cell Niche. Cell Stem Cell, 2014, 15, 376-391.	11.1	63
61	Dendritic Cell Development from Common Myeloid Progenitors. Annals of the New York Academy of Sciences, 2001, 938, 167-174.	3.8	55
62	The role of Wnt signaling in hematopoietic stem cell development. Critical Reviews in Biochemistry and Molecular Biology, 2017, 52, 414-424.	5.2	54
63	Blood flow-induced Notch activation and endothelial migration enable vascular remodeling in zebrafish embryos. Nature Communications, 2018, 9, 5314.	12.8	54
64	Loss of IP3R-dependent Ca2+ signalling in thymocytes leads to aberrant development and acute lymphoblastic leukemia. Nature Communications, 2014, 5, 4814.	12.8	51
65	Perspectives on antigen presenting cells in zebrafish. Developmental and Comparative Immunology, 2014, 46, 63-73.	2.3	48
66	Dissection of vertebrate hematopoiesis using zebrafish thrombopoietin. Blood, 2014, 124, 220-228.	1.4	47
67	Wnt9a Is Required for the Aortic Amplification of Nascent Hematopoietic Stem Cells. Cell Reports, 2016, 17, 1595-1606.	6.4	46
68	FGF signalling restricts haematopoietic stem cell specification via modulation of the BMP pathway. Nature Communications, 2014, 5, 5588.	12.8	45
69	Streptococcus agalactiae infection in zebrafish larvae. Microbial Pathogenesis, 2015, 79, 57-60.	2.9	44
70	The zebrafish activating immune receptor Nitr9 signals via Dap12. Immunogenetics, 2007, 59, 813-821.	2.4	43
71	EGFR is required for Wnt9aâ€"Fzd9b signalling specificity in haematopoietic stem cells. Nature Cell Biology, 2019, 21, 721-730.	10.3	42
72	Structural characteristics of zebrafish orthologs of adaptor molecules that associate with transmembrane immune receptors. Gene, 2007, 401, 154-164.	2.2	41

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73	Wnt Signaling in Hematological Malignancies. Progress in Molecular Biology and Translational Science, 2018, 153, 321-341.	1.7	40
74	Proinflammatory Signals as Fuel for the Fire of Hematopoietic Stem Cell Emergence. Trends in Cell Biology, 2018, 28, 58-66.	7.9	40
75	Evaluation of the Cunningham Panelâ„¢ in pediatric autoimmune neuropsychiatric disorder associated with streptococcal infection (PANDAS) and pediatric acute-onset neuropsychiatric syndrome (PANS): Changes in antineuronal antibody titers parallel changes in patient symptoms. Journal of Neuroimmunology, 2020, 339, 577138.	2.3	38
76	FGF signalling specifies haematopoietic stem cells through its regulation of somitic Notch signalling. Nature Communications, 2014, 5, 5583.	12.8	37
77	Impact of COVID-19 on early career scientists: an optimistic guide for the future. BMC Biology, 2020, 18, 95.	3.8	36
78	The Complex Cartography of Stem Cell Commitment. Cell, 2005, 121, 160-162.	28.9	35
79	Immune-related, lectin-like receptors are differentially expressed in the myeloid and lymphoid lineages of zebrafish. Immunogenetics, 2006, 58, 31-40.	2.4	34
80	Developmental and tissue-specific expression of NITRs. Immunogenetics, 2010, 62, 117-122.	2.4	33
81	Mecp2 regulates<i>tnfa</i>during zebrafish embryonic development and acute inflammation. DMM Disease Models and Mechanisms, 2017, 10, 1439-1451.	2.4	31
82	Zebrafish <i>wnt3</i> is expressed in developing neural tissue. Developmental Dynamics, 2009, 238, 1788-1795.	1.8	30
83	Cell signaling pathways involved in hematopoietic stem cell specification. Experimental Cell Research, 2014, 329, 227-233.	2.6	30
84	Enrichment of hematopoietic stem/progenitor cells in the zebrafish kidney. Scientific Reports, 2019, 9, 14205.	3.3	29
85	Comparative Analysis of Vertebrate Diurnal/Circadian Transcriptomes. PLoS ONE, 2017, 12, e0169923.	2.5	29
86	The Pu.1 target gene Zbtb11 regulates neutrophil development through its integrase-like HHCC zinc finger. Nature Communications, 2017, 8, 14911.	12.8	27
87	Ex vivo tools for the clonal analysis of zebrafish hematopoiesis. Nature Protocols, 2016, 11, 1007-1020.	12.0	24
88	Conserved IL-2RÎ³c Signaling Mediates Lymphopoiesis in Zebrafish. Journal of Immunology, 2016, 196, 135-143.	0.8	23
89	Lipoprotein lipase regulates hematopoietic stem progenitor cell maintenance through DHA supply. Nature Communications, 2018, 9, 1310.	12.8	22
90	WNT9A Is a Conserved Regulator of Hematopoietic Stem and Progenitor Cell Development. Genes, 2018, 9, 66.	2.4	19

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91	Zebrafish embryonic stromal trunk (ZEST) cells support hematopoietic stem and progenitor cell (HSPC) proliferation, survival, and differentiation. Experimental Hematology, 2015, 43, 1047-1061.	0.4	18
92	Lineage Commitment and Developmental Plasticity in Early Lymphoid Progenitor Subsets. Advances in Immunology, 2004, 83, 1-54.	2.2	17
93	Direct Visualization of Live Zebrafish Glycans via Singleâ€Step Metabolic Labeling with Fluorophoreâ€Tagged Nucleotide Sugars. Angewandte Chemie - International Edition, 2019, 58, 14327-14333.	13.8	17
94	A zebrafish model of granulin deficiency reveals essential roles in myeloid cell differentiation. Blood Advances, 2021, 5, 796-811.	5.2	17
95	Zebrafish Caudal Haematopoietic Embryonic Stromal Tissue (CHEST) Cells Support Haematopoiesis. Scientific Reports, 2017, 7, 44644.	3.3	15
96	CRISPR Guide RNA Validation <i>In Vitro</i>. Zebrafish, 2017, 14, 383-386.	1.1	13
97	Notch signaling enhances bone regeneration in the zebrafish mandible. Development (Cambridge), 2022, 149, .	2.5	10
98	Haematopoietic stem cell-dependent Notch transcription is mediated by p53 through the Histone chaperone Supt16h. Nature Cell Biology, 2020, 22, 1411-1422.	10.3	9
99	Frascati , a Mitochondrial Solute Transporter, and Its Role in Vertebrate Erythropoiesis.. Blood, 2004, 104, 49-49.	1.4	7
100	Fish pharming: zebrafish antileukemia screening. Blood, 2012, 119, 5614-5615.	1.4	6
101	Going with the flow: How shear stress signals the emergence of adult hematopoiesis. Journal of Experimental Medicine, 2015, 212, 600-600.	8.5	6
102	Ndrg1b and fam49ab modulate the PTEN pathway to control T-cell lymphopoiesis in the zebrafish. Blood, 2016, 128, 3052-3060.	1.4	6
103	A Four-Well Dish for High-Resolution Longitudinal Imaging of the Tail and Posterior Trunk of Larval Zebrafish. Zebrafish, 2017, 14, 489-491.	1.1	6
104	Direct Visualization of Live Zebrafish Glycans via Singleâ€Step Metabolic Labeling with Fluorophoreâ€Tagged Nucleotide Sugars. Angewandte Chemie, 2019, 131, 14465-14471.	2.0	5
105	Zebrafish snai2 mutants fail to phenocopy morphant phenotypes. PLoS ONE, 2018, 13, e0202747.	2.5	4
106	Zebrafish Kit ligands cooperate with erythropoietin to promote erythroid cell expansion. Blood Advances, 2020, 4, 5915-5924.	5.2	4
107	Endothelial struts enable the generation of large lumenized blood vessels de novo. Nature Cell Biology, 2021, 23, 322-329.	10.3	4
108	Embryonic Immune Cells Remodel the Heart. Developmental Cell, 2019, 48, 595-596.	7.0	3

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109	Intimacy of the Niche: Perivascular Remodeling Cuddles Incoming HSCs. Cell Stem Cell, 2015, 16, 109-110.	11.1	1
110	Zebra "Fishing" the Role of Granulin in Hematopoiesis. Blood, 2019, 134, 1194-1194.	1.4	1
111	The Ontogeny of Definitive Hematopoiesis in the Zebrafish.. Blood, 2007, 110, 438-438.	1.4	1
112	Wnt16 Is Required for Specification of Vertebrate Hematopoietic Stem Cells through Notch.. Blood, 2010, 116, 2616-2616.	1.4	1
113	Wnt9a Interacts Specifically with Frizzled9b to Regulate the Emergence of Hematopoietic Stem Cells. Experimental Hematology, 2018, 64, S25-S26.	0.4	0
114	1035 - DECODING THE MOLECULAR CUES THAT REGULATE HSC SPECIFICATION.. Experimental Hematology, 2019, 76, S40.	0.4	0
115	Ferroportin1-Deficient Zebrafish Treated with Iron Dextran Develop Anemia Despite Increased Macrophage Iron Stores.. Blood, 2004, 104, 3691-3691.	1.4	0
116	Increased Expression of CD47 Is a Constant Marker in Mouse and Human Myeloid Leukemias.. Blood, 2005, 106, 3260-3260.	1.4	0
117	Hematopoietic Stem and Progenitor Cell Biology in the Zebrafish.. Blood, 2006, 108, 4160-4160.	1.4	0
118	Both Primitive and Definitive Hematopoiesis Arise From Precursors with Endothelial Potential in the Zebrafish.. Blood, 2009, 114, 697-697.	1.4	0
119	Adult Langerhans Cells Derive Directly From Embryonic Macrophages.. Blood, 2010, 116, 3788-3788.	1.4	0
120	Utilizing zebrafish for new insights into the cellular and molecular mechanisms of microglia ontogeny. Experimental Hematology, 2017, 53, S57.	0.4	0
121	3041 â€“ ENDOTHELIAL STRUTS, A NOVEL MECHANISM OF BLOOD VESSEL FORMATION THROUGH ORGANIZATION OF ARTERIAL, VENOUS AND HEMATOPOIETIC STEM CELL PRECURSORS.. Experimental Hematology, 2020, 88, S51-S52.	0.4	0