Leonard I Zon

List of Publications by Year
in descending order

279 papers	42,372 citations	3933 88 h-index	2385 198 g-index
299 all docs	299 docs citations	299 times ranked	39587 citing authors

#	Article	IF	Citations
1	The zebrafish reference genome sequence and its relationship to the human genome. Nature, 2013, 496, 498-503.	27.8	3,708
2	Hematopoiesis: An Evolving Paradigm for Stem Cell Biology. Cell, 2008, 132, 631-644.	28.9	2,061
3	Requirement for ceramide-initiated SAPK/JNK signalling in stress-induced apoptosis. Nature, 1996, 380, 75-79.	27.8	1,789
4	Positional cloning of zebrafish ferroportin1 identifies a conserved vertebrate iron exporter. Nature, 2000, 403, 776-781.	27.8	1,491
5	Transparent Adult Zebrafish as a Tool for In Vivo Transplantation Analysis. Cell Stem Cell, 2008, 2, 183-189.	11.1	1,176
6	In vivo drug discovery in the zebrafish. Nature Reviews Drug Discovery, 2005, 4, 35-44.	46.4	1,159
7	Prostaglandin E2 regulates vertebrate haematopoietic stem cell homeostasis. Nature, 2007, 447, 1007-1011.	27.8	1,037
8	Role of SAPK/ERK kinase-1 in the stress-activated pathway regulating transcription factor c-Jun. Nature, 1994, 372, 794-798.	27.8	1,016
9	Cloning of cDNA for the major DNA-binding protein of the erythroid lineage through expression in mammalian cells. Nature, 1989, 339, 446-451.	27.8	941
10	Vertebrate genome evolution and the zebrafish gene map. Nature Genetics, 1998, 18, 345-349.	21.4	792
11	Activation of stress-activated protein kinase by MEKK1 phosphorylation of its activator SEK1. Nature, 1994, 372, 798-800.	27.8	729
12	Transplantation and in vivo imaging of multilineage engraftment in zebrafish bloodless mutants. Nature Immunology, 2003, 4, 1238-1246.	14.5	718
13	Genetic Interaction of PGE2 and Wnt Signaling Regulates Developmental Specification of Stem Cells and Regeneration. Cell, 2009, 136, 1136-1147.	28.9	628
14	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
15	tp53 mutant zebrafish develop malignant peripheral nerve sheath tumors. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 407-412.	7.1	559
16	The Use of Zebrafish to Understand Immunity. Immunity, 2004, 20, 367-379.	14.3	557
17	Intraembryonic hematopoietic cell migration during vertebrate development.. Proceedings of the National Academy of Sciences of the United States of America, 1995, 92, 10713-10717.	7.1	549
18	Myc-Induced T Cell Leukemia in Transgenic Zebrafish. Science, 2003, 299, 887-890.	12.6	506

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19	The histone methyltransferase SETDB1 is recurrently amplified in melanoma and accelerates its onset. Nature, 2011, 471, 513-517.	27.8	506
20	Expression of an erythroid transcription factor in megakaryocytic and mast cell lineages. Nature, 1990, 344, 444-447.	27.8	482
21	TheclocheandspadetailGenes Differentially Affect Hematopoiesis and Vasculogenesis. Developmental Biology, 1998, 197, 248-269.	2.0	467
22	Generation of vascular endothelial and smooth muscle cells from human pluripotent stem cells. Nature Cell Biology, 2015, 17, 994-1003.	10.3	463
23	The art and design of genetic screens: zebrafish. Nature Reviews Genetics, 2001, 2, 956-966.	16.3	425
24	A comparison of non-integrating reprogramming methods. Nature Biotechnology, 2015, 33, 58-63.	17.5	424
25	DHODH modulates transcriptional elongation in the neural crest and melanoma. Nature, 2011, 471, 518-522.	27.8	411
26	Hooked! Modeling human disease in zebrafish. Journal of Clinical Investigation, 2012, 122, 2337-2343.	8.2	408
27	Ubiquitous transgene expression and Cre-based recombination driven by the <i>ubiquitin</i> promoter in zebrafish. Development (Cambridge), 2011, 138, 169-177.	2.5	400
28	Hematopoietic Stem Cell Development Is Dependent on Blood Flow. Cell, 2009, 137, 736-748.	28.9	393
29	Myelopoiesis in the zebrafish, Danio rerio. Blood, 2001, 98, 643-651.	1.4	391
30	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
31	Hepatic maturation in differentiating embryonic stem cells in vitro. FEBS Letters, 2001, 497, 15-19.	2.8	381
32	The â€˜definitiveâ€™ (and â€˜primitiveâ€™) guide to zebrafish hematopoiesis. Oncogene, 2004, 23, 7233-7246.	5.9	376
33	Hematopoietic stem cell fate is established by the Notchâ€“Runx pathway. Genes and Development, 2005, 19, 2331-2342.	5.9	358
34	Zebrafish cancer: the state of the art and the path forward. Nature Reviews Cancer, 2013, 13, 624-636.	28.4	349
35	Analysis of thrombocyte development in CD41-GFP transgenic zebrafish. Blood, 2005, 106, 3803-3810.	1.4	341
36	A zebrafish melanoma model reveals emergence of neural crest identity during melanoma initiation. Science, 2016, 351, aad2197.	12.6	339

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37	Tumor-Derived Extracellular Vesicles Breach the Intact Bloodâ€“Brain Barrier <i>via</i> Transcytosis. ACS Nano, 2019, 13, 13853-13865.	14.6	326
38	A CRISPR/Cas9 Vector System for Tissue-Specific Gene Disruption in Zebrafish. Developmental Cell, 2015, 32, 756-764.	7.0	325
39	Use of Zebrafish in Drug Discovery Toxicology. Chemical Research in Toxicology, 2020, 33, 95-118.	3.3	315
40	Haematologic manifestations of the human immune deficiency virus (HIV). British Journal of Haematology, 1987, 66, 251-256.	2.5	301
41	Hematopoietic Stem Cell Arrival Triggers Dynamic Remodeling of the Perivascular Niche. Cell, 2015, 160, 241-252.	28.9	291
42	Effects of RAS on the genesis of embryonal rhabdomyosarcoma. Genes and Development, 2007, 21, 1382-1395.	5.9	289
43	Prostaglandin-modulated umbilical cord blood hematopoietic stem cell transplantation. Blood, 2013, 122, 3074-3081.	1.4	280
44	Lineage Regulators Direct BMP and Wnt Pathways to Cell-Specific Programs during Differentiation and Regeneration. Cell, 2011, 147, 577-589.	28.9	277
45	Hematopoiesis. Development (Cambridge), 2013, 140, 2463-2467.	2.5	270
46	Intrinsic and extrinsic control of haematopoietic stem-cell self-renewal. Nature, 2008, 453, 306-313.	27.8	261
47	Loci associated with skin pigmentation identified in African populations. Science, 2017, 358, .	12.6	260
48	Prostaglandin E2 Enhances Human Cord Blood Stem Cell Xenotransplants and Shows Long-Term Safety in Preclinical Nonhuman Primate Transplant Models. Cell Stem Cell, 2011, 8, 445-458.	11.1	250
49	Use of the Zebrafish System to Study Primitive and Definitive Hematopoiesis. Annual Review of Genetics, 2005, 39, 481-501.	7.6	248
50	Induction of Multipotential Hematopoietic Progenitors from Human Pluripotent Stem Cells via Respecification of Lineage-Restricted Precursors. Cell Stem Cell, 2013, 13, 459-470.	11.1	241
51	Positional cloning of the zebrafish sauternes gene: a model for congenital sideroblastic anaemia. Nature Genetics, 1998, 20, 244-250.	21.4	239
52	Suppression of in vitro haematopoiesis following human immunodeficiency virus infection. Nature, 1987, 326, 200-203.	27.8	235
53	cdx4 mutants fail to specify blood progenitors and can be rescued by multiple hox genes. Nature, 2003, 425, 300-306.	27.8	227
54	Activation of the SAPK pathway by the human STE20 homologue germinal centre kinase. Nature, 1995, 377, 750-754.	27.8	218

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55	Loss-of-function mutations in the <i>C9ORF72</i> mouse ortholog cause fatal autoimmune disease. Science Translational Medicine, 2016, 8, 347ra93.	12.4	217
56	Dynamic Control of Enhancer Repertoires Drives Lineage and Stage-Specific Transcription during Hematopoiesis. Developmental Cell, 2016, 36, 9-23.	7.0	204
57	Zebrafish disease models in drug discovery: from preclinical modelling to clinical trials. Nature Reviews Drug Discovery, 2021, 20, 611-628.	46.4	192
58	TIF1Î³ Controls Erythroid Cell Fate by Regulating Transcription Elongation. Cell, 2010, 142, 133-143.	28.9	187
59	Effects of lethal irradiation in zebrafish and rescue by hematopoietic cell transplantation. Blood, 2004, 104, 1298-1305.	1.4	161
60	Anticardiolipin antibodies associated with HTLVâ€III infection. British Journal of Haematology, 1987, 65, 495-498.	2.5	160
61	The major human erythroid DNA-binding protein (GF-1): primary sequence and localization of the gene to the X chromosome.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 668-672.	7.1	154
62	A zebrafish bmyb mutation causes genome instability and increased cancer susceptibility. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 13194-13199.	7.1	152
63	Zebrafish as a model for normal and malignant hematopoiesis. DMM Disease Models and Mechanisms, 2011, 4, 433-438.	2.4	151
64	Characterization of embryonic globin genes of the zebrafish. Developmental Biology, 2003, 255, 48-61.	2.0	150
65	BMP-4-responsive regulation of dorsalâ€“ventral patterning by the homeobox protein Mix.1. Nature, 1996, 382, 357-360.	27.8	149
66	Hematopoietic development in the zebrafish. International Journal of Developmental Biology, 2010, 54, 1127-1137.	0.6	146
67	A Zebrafish Embryo Culture System Defines Factors that Promote Vertebrate Myogenesis across Species. Cell, 2013, 155, 909-921.	28.9	144
68	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
69	Zebrafish patient avatars in cancer biology and precision cancer therapy. Nature Reviews Cancer, 2020, 20, 263-273.	28.4	137
70	Zebrafish blood stem cells. Journal of Cellular Biochemistry, 2009, 108, 35-42.	2.6	136
71	Zebrafish scl functions independently in hematopoietic and endothelial development. Developmental Biology, 2005, 277, 522-536.	2.0	133
72	Melanocytes in Development, Regeneration, and Cancer. Cell Stem Cell, 2008, 3, 242-252.	11.1	133

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73	A Chemical Genetic Screen for Cell Cycle Inhibitors in Zebrafish Embryos. Chemical Biology and Drug Design, 2006, 68, 213-219.	3.2	127
74	GATA-binding transcription factors in mast cells regulate the promoter of the mast cell carboxypeptidase A gene. Journal of Biological Chemistry, 1991, 266, 22948-53.	3.4	124
75	Human tumor genomics and zebrafish modeling identify <i>SPRED1</i> loss as a driver of mucosal melanoma. Science, 2018, 362, 1055-1060.	12.6	123
76	Zebrafish globin switching occurs in two developmental stages and is controlled by the LCR. Developmental Biology, 2012, 366, 185-194.	2.0	122
77	Oncogenic NRAS Cooperates with<i>p53</i>Loss to Generate Melanoma in Zebrafish. Zebrafish, 2009, 6, 397-404.	1.1	121
78	High-throughput cell transplantation establishes that tumor-initiating cells are abundant in zebrafish T-cell acute lymphoblastic leukemia. Blood, 2010, 115, 3296-3303.	1.4	121
79	The Zebrafish moonshine Gene Encodes Transcriptional Intermediary Factor 1Î³, an Essential Regulator of Hematopoiesis. PLoS Biology, 2004, 2, e237.	5.6	117
80	A Quantitative System for Studying Metastasis Using Transparent Zebrafish. Cancer Research, 2015, 75, 4272-4282.	0.9	113
81	The caudal-related homeobox genes cdx1a and cdx4 act redundantly to regulate hox gene expression and the formation of putative hematopoietic stem cells during zebrafish embryogenesis. Developmental Biology, 2006, 292, 506-518.	2.0	108
82	Mutations in QARS, Encoding Glutaminyl-tRNA Synthetase, Cause Progressive Microcephaly, Cerebral-Cerebellar Atrophy, and Intractable Seizures. American Journal of Human Genetics, 2014, 94, 547-558.	6.2	106
83	Zebrafishstat3 is expressed in restricted tissues during embryogenesis andstat1 rescues cytokine signaling in aSTAT1-deficient human cell line. Developmental Dynamics, 1999, 215, 352-370.	1.8	105
84	Chamber identity programs drive early functional partitioning of the heart. Nature Communications, 2015, 6, 8146.	12.8	103
85	Targeting the Senescence-Overriding Cooperative Activity of Structurally Unrelated H3K9 Demethylases in Melanoma. Cancer Cell, 2018, 33, 322-336.e8.	16.8	103
86	Hematologic manifestations of the human immune deficiency virus (HIV). Seminars in Hematology, 1988, 25, 208-18.	3.4	101
87	Ultrasound biomicroscopy permits in vivo characterization of zebrafish liver tumors. Nature Methods, 2007, 4, 551-553.	19.0	99
88	PD-L1 genetic overexpression or pharmacological restoration in hematopoietic stem and progenitor cells reverses autoimmune diabetes. Science Translational Medicine, 2017, 9, .	12.4	99
89	Zebrafish: a new model for human disease. Genome Research, 1999, 9, 99-100.	5.5	99
90	Epoxyeicosatrienoic acids enhance embryonic haematopoiesis and adult marrow engraftment. Nature, 2015, 523, 468-471.	27.8	97

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91	NOTCH signaling specifies arterial-type definitive hemogenic endothelium from human pluripotent stem cells. Nature Communications, 2018, 9, 1828.	12.8	97
92	Regulation of the lmo2 promoter during hematopoietic and vascular development in zebrafish. Developmental Biology, 2005, 281, 256-269.	2.0	95
93	Chemical screening in zebrafish for novel biological and therapeutic discovery. Methods in Cell Biology, 2017, 138, 651-679.	1.1	94
94	The erythropoietin receptor transmembrane region is necessary for activation by the Friend spleen focus-forming virus gp55 glycoprotein.. Molecular and Cellular Biology, 1992, 12, 2949-2957.	2.3	93
95	Resistance to inflammation underlies enhanced fitness in clonal hematopoiesis. Science, 2021, 374, 768-772.	12.6	93
96	The zebrafish granulocyte colony-stimulating factors (Gcsfs): 2 paralogous cytokines and their roles in hematopoietic development and maintenance. Blood, 2013, 122, 3918-3928.	1.4	90
97	Clonal fate mapping quantifies the number ofÂhaematopoietic stem cells that arise duringÂdevelopment. Nature Cell Biology, 2017, 19, 17-27.	10.3	90
98	AIBP-mediated cholesterol efflux instructs hematopoietic stem and progenitor cell fate. Science, 2019, 363, 1085-1088.	12.6	90
99	Melanoma models for the next generation of therapies. Cancer Cell, 2021, 39, 610-631.	16.8	90
100	MED12 Regulates HSC-Specific Enhancers Independently of Mediator Kinase Activity to Control Hematopoiesis. Cell Stem Cell, 2016, 19, 784-799.	11.1	88
101	A genetic screen in zebrafish defines a hierarchical network of pathways required for hematopoietic stem cell emergence. Blood, 2009, 113, 5776-5782.	1.4	87
102	Selective microRNA uridylation by Zcchc6 (TUT7) and Zcchc11 (TUT4). Nucleic Acids Research, 2014, 42, 11777-11791.	14.5	87
103	Drug discovery for Diamond-Blackfan anemia using reprogrammed hematopoietic progenitors. Science Translational Medicine, 2017, 9, .	12.4	87
104	A network of epigenetic regulators guides developmental haematopoiesis in vivo. Nature Cell Biology, 2013, 15, 1516-1525.	10.3	81
105	Whole-exome sequencing and functional studies identify RPS29 as a novel gene mutated in multicase Diamond-Blackfan anemia families. Blood, 2014, 124, 24-32.	1.4	79
106	Engineering Hematopoietic Stem Cells: Lessons from Development. Cell Stem Cell, 2016, 18, 707-720.	11.1	79
107	Targeted Application of Human Genetic Variation Can Improve Red Blood Cell Production from Stem Cells. Cell Stem Cell, 2016, 18, 73-78.	11.1	78
108	<i>EXTL3</i> mutations cause skeletal dysplasia, immune deficiency, and developmental delay. Journal of Experimental Medicine, 2017, 214, 623-637.	8.5	76

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109	Zebrafish kidney stromal cell lines support multilineage hematopoiesis. Blood, 2009, 114, 279-289.	1.4	74
110	Siteâ€directed zebrafish transgenesis into single landing sites with the phiC31 integrase system. Developmental Dynamics, 2013, 242, 949-963.	1.8	74
111	Adenosine signaling promotes hematopoietic stem and progenitor cell emergence. Journal of Experimental Medicine, 2015, 212, 649-663.	8.5	73
112	Retro-orbital Injection in Adult Zebrafish. Journal of Visualized Experiments, 2009, , .	0.3	71
113	Stress from Nucleotide Depletion Activates the Transcriptional Regulator HEXIM1 to Suppress Melanoma. Molecular Cell, 2016, 62, 34-46.	9.7	71
114	Estrogen Activation of G-Proteinâ€"Coupled Estrogen Receptor 1 Regulates Phosphoinositide 3-Kinase and mTOR Signaling to Promote Liver Growth in Zebrafish and Proliferation of HumanÂHepatocytes. Gastroenterology, 2019, 156, 1788-1804.e13.	1.3	69
115	Modeling Cancer with Flies and Fish. Developmental Cell, 2019, 49, 317-324.	7.0	68
116	Cross-species analysis of enhancer logic using deep learning. Genome Research, 2020, 30, 1815-1834.	5.5	65
117	Co-injection strategies to modify radiation sensitivity and tumor initiation in transgenic Zebrafish. Oncogene, 2008, 27, 4242-4248.	5.9	63
118	Long-term drug administration in the adult zebrafish using oral gavage for cancer preclinical studies. DMM Disease Models and Mechanisms, 2016, 9, 811-20.	2.4	61
119	Inflammasome Regulates Hematopoiesis through Cleavage of the Master Erythroid Transcription Factor GATA1. Immunity, 2019, 51, 50-63.e5.	14.3	61
120	Protection from UV light is an evolutionarily conserved feature of the haematopoietic niche. Nature, 2018, 558, 445-448.	27.8	59
121	Melanoma Biology and the Promise of Zebrafish. Zebrafish, 2008, 5, 247-255.	1.1	58
122	A Zebrafish Model of Myelodysplastic Syndrome Produced through <i>tet2</i> Genomic Editing. Molecular and Cellular Biology, 2015, 35, 789-804.	2.3	58
123	Hematopoietic defects in rps29 mutant zebrafish depend upon p53 activation. Experimental Hematology, 2012, 40, 228-237.e5.	0.4	57
124	Insight into GATA1 transcriptional activity through interrogation of <i>cis</i> elements disrupted in human erythroid disorders. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4434-4439.	7.1	56
125	Zebrafish blastomere screen identifies retinoic acid suppression of <i>MYB</i> in adenoid cystic carcinoma. Journal of Experimental Medicine, 2018, 215, 2673-2685.	8.5	56
126	Evolution of the hypoxia-sensitive cells involved in amniote respiratory reflexes. ELife, 2017, 6, .	6.0	54

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127	Getting more for your marrow: Boosting hematopoietic stem cell numbers with PGE2. Experimental Cell Research, 2014, 329, 220-226.	2.6	53
128	Massively parallel reporter assays of melanoma risk variants identify MX2 as a gene promoting melanoma. Nature Communications, 2020, 11, 2718.	12.8	53
129	From fish bowl to bedside: The power of zebrafish to unravel melanoma pathogenesis and discover new therapeutics. Pigment Cell and Melanoma Research, 2017, 30, 402-412.	3.3	52
130	Modeling human hematopoietic and cardiovascular diseases in zebrafish. Developmental Dynamics, 2003, 228, 568-583.	1.8	51
131	Clonal analysis of hematopoietic progenitor cells in the zebrafish. Blood, 2011, 118, 1274-1282.	1.4	50
132	Distinct Roles for Matrix Metalloproteinases 2 and 9 in Embryonic Hematopoietic Stem Cell Emergence, Migration, and Niche Colonization. Stem Cell Reports, 2017, 8, 1226-1241.	4.8	50
133	Analysis of Hematopoietic Development in the Zebrafish. , 2005, 105, 171-198.		49
134	Mitochondrial function in development and disease. DMM Disease Models and Mechanisms, 2021, 14, .	2.4	48
135	Dissection of vertebrate hematopoiesis using zebrafish thrombopoietin. Blood, 2014, 124, 220-228.	1.4	47
136	Flow-induced protein kinase Aâ€“CREB pathway acts via BMP signaling to promote HSC emergence. Journal of Experimental Medicine, 2015, 212, 633-648.	8.5	47
137	Neural Crest Development and Craniofacial Morphogenesis Is Coordinated by Nitric Oxide and Histone Acetylation. Chemistry and Biology, 2014, 21, 488-501.	6.0	46
138	Genome-wide Trans-ethnic Meta-analysis Identifies Seven Genetic Loci Influencing Erythrocyte Traits and a Role for RBPMS in Erythropoiesis. American Journal of Human Genetics, 2017, 100, 51-63.	6.2	45
139	Chapter 14 Zebrafish YAC, BAC, and PAC Genomic Libraries. Methods in Cell Biology, 1998, 60, 235-258.	1.1	44
140	Advanced Zebrafish Transgenesis with Tol2 and Application for Cre/lox Recombination Experiments. Methods in Cell Biology, 2011, 104, 173-194.	1.1	44
141	Gain-of-Function Genetic Alterations of G9a Drive Oncogenesis. Cancer Discovery, 2020, 10, 980-997.	9.4	44
142	CXCR1 remodels the vascular niche to promote hematopoietic stem and progenitor cell engraftment. Journal of Experimental Medicine, 2017, 214, 1011-1027.	8.5	43
143	A novel myeloid-restricted zebrafish CCAAT/enhancer-binding protein with a potent transcriptional activation domain. Blood, 2001, 97, 2611-2617.	1.4	41
144	Stromal cellâ€“derived factor-1 and hematopoietic cell homing in an adult zebrafish model of hematopoietic cell transplantation. Blood, 2011, 118, 766-774.	1.4	41

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145	Fish to Learn: Insights into Blood Development and Blood Disorders from Zebrafish Hematopoiesis. Human Gene Therapy, 2016, 27, 287-294.	2.7	41
146	Use of the Zebrafish (<i>Danio rerio</i>) to Define Hematopoiesis. Stem Cells, 1998, 16, 89-98.	3.2	40
147	The genetic heterogeneity and mutational burden of engineered melanomas in zebrafish models. Genome Biology, 2013, 14, R113.	9.6	40
148	DNA methyltransferase 1 functions through C/ebpa to maintain hematopoietic stem and progenitor cells in zebrafish. Journal of Hematology and Oncology, 2015, 8, 15.	17.0	40
149	Notch1 acts via Foxc2 to promote definitive hematopoiesis via effects on hemogenic endothelium. Blood, 2015, 125, 1418-1426.	1.4	40
150	The dark side of PD-1 receptor inhibition. Nature, 2017, 552, 41-42.	27.8	39
151	Specific oxylipins enhance vertebrate hematopoiesis via the receptor GPR132. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 9252-9257.	7.1	38
152	c-myb hyperactivity leads to myeloid and lymphoid malignancies in zebrafish. Leukemia, 2017, 31, 222-233.	7.2	37
153	Stem cell safe harbor: the hematopoietic stem cell niche in zebrafish. Blood Advances, 2018, 2, 3063-3069.	5.2	37
154	RNA helicase DDX21 mediates nucleotide stress responses in neural crest and melanoma cells. Nature Cell Biology, 2020, 22, 372-379.	10.3	37
155	A chemical screen in zebrafish embryonic cells establishes that Akt activation is required for neural crest development. ELife, 2017, 6, .	6.0	37
156	Blood on the tracks: hematopoietic stem cell-endothelial cell interactions in homing and engraftment. Journal of Molecular Medicine, 2017, 95, 809-819.	3.9	36
157	TiF1-gamma plays an essential role in murine hematopoiesis and regulates transcriptional elongation of erythroid genes. Developmental Biology, 2013, 373, 422-430.	2.0	35
158	Identifying Novel Cancer Therapies Using Chemical Genetics and Zebrafish. Advances in Experimental Medicine and Biology, 2016, 916, 103-124.	1.6	35
159	NNT mediates redox-dependent pigmentation via a UVB- and MITF-independent mechanism. Cell, 2021, 184, 4268-4283.e20.	28.9	35
160	RNA helicase, DDX27 regulates skeletal muscle growth and regeneration by modulation of translational processes. PLoS Genetics, 2018, 14, e1007226.	3.5	34
161	A non-canonical function of telomerase RNA in the regulation of developmental myelopoiesis in zebrafish. Nature Communications, 2014, 5, 3228.	12.8	32
162	Understanding the regulation of vertebrate hematopoiesis and blood disorders â€“ big lessons from a small fish. FEBS Letters, 2016, 590, 4016-4033.	2.8	32

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163	CAT7 and cat7l Long Non-coding RNAs Tune Polycomb Repressive Complex 1 Function during Human and Zebrafish Development. Journal of Biological Chemistry, 2016, 291, 19558-19572.	3.4	32
164	Retinoic Acid Blockade Increases Primitive Blood Cell Formation in cdx4 Mutant Zebrafish Embryos, Murine Yolk Sac Explants and Differentiated Embryonic Stem Cells.. Blood, 2007, 110, 201-201.	1.4	32
165	Efforts to enhance blood stem cell engraftment: Recent insights from zebrafish hematopoiesis. Journal of Experimental Medicine, 2017, 214, 2817-2827.	8.5	31
166	A phase II trial of all-trans retinoic acid (ATRA) in advanced adenoid cystic carcinoma. Oral Oncology, 2021, 119, 105366.	1.5	31
167	Mutation of kri1l causes definitive hematopoiesis failure via PERK-dependent excessive autophagy induction. Cell Research, 2015, 25, 946-962.	12.0	30
168	FAM210B is an erythropoietin target and regulates erythroid heme synthesis by controlling mitochondrial iron import and ferrochelatase activity. Journal of Biological Chemistry, 2018, 293, 19797-19811.	3.4	30
169	PRL3-DDX21 Transcriptional Control of Endolysosomal Genes Restricts Melanocyte Stem Cell Differentiation. Developmental Cell, 2020, 54, 317-332.e9.	7.0	30
170	Angiopoietin-like proteins stimulate HSPC development through interaction with notch receptor signaling. ELife, 2015, 4, .	6.0	30
171	Zebrafish modeling reveals that SPINT1 regulates the aggressiveness of skin cutaneous melanoma and its crosstalk with tumor immune microenvironment. Journal of Experimental and Clinical Cancer Research, 2019, 38, 405.	8.6	29
172	Transplantation in zebrafish. Methods in Cell Biology, 2017, 138, 629-647.	1.1	27
173	Long-Range Optogenetic Control of Axon Guidance Overcomes Developmental Boundaries and Defects. Developmental Cell, 2020, 53, 577-588.e7.	7.0	27
174	Calmodulin inhibitors improve erythropoiesis in Diamond-Blackfan anemia. Science Translational Medicine, 2020, 12, .	12.4	26
175	Transplantation in Zebrafish. Methods in Cell Biology, 2011, 105, 403-417.	1.1	25
176	Cell-specific transcriptional control of mitochondrial metabolism by TIF1Î³ drives erythropoiesis. Science, 2021, 372, 716-721.	12.6	25
177	Ex vivo tools for the clonal analysis of zebrafish hematopoiesis. Nature Protocols, 2016, 11, 1007-1020.	12.0	24
178	Common variants in signaling transcription-factor-binding sites drive phenotypic variability in red blood cell traits. Nature Genetics, 2020, 52, 1333-1345.	21.4	24
179	Toddler signaling regulates mesodermal cell migration downstream of Nodal signaling. ELife, 2017, 6, .	6.0	24
180	Isolation and characterization of zebrafish NFE2. Physiological Genomics, 2002, 11, 91-98.	2.3	22

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181	JDP2: An oncogenic bZIP transcription factor in T cell acute lymphoblastic leukemia. Journal of Experimental Medicine, 2018, 215, 1929-1945.	8.5	22
182	TopBP1 Governs Hematopoietic Stem/Progenitor Cells Survival in Zebrafish Definitive Hematopoiesis. PLoS Genetics, 2015, 11, e1005346.	3.5	21
183	Hematopoietic stem cells develop in the absence of endothelial cadherin 5 expression. Blood, 2015, 126, 2811-2820.	1.4	20
184	Generation of mouse-zebrafish hematopoietic tissue chimeric embryos for hematopoiesis and host-pathogen interaction studies. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	19
185	Neural crest state activation in NRAS driven melanoma, but not in NRAS-driven melanocyte expansion. Developmental Biology, 2019, 449, 107-114.	2.0	19
186	<i>SPRED1</i> deletion confers resistance to MAPK inhibition in melanoma. Journal of Experimental Medicine, 2021, 218, .	8.5	19
187	Making HSCs in vitro: donâ€™t forget the hemogenic endothelium. Blood, 2018, 132, 1372-1378.	1.4	18
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