

Nathan D Lawson

List of Publications by Year in descending order

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93
papers

15,940
citations

30551

56
h-index

48101

92
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104
all docs

104
docs citations

104
times ranked

20284
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous <i>pdgfrb</i> cells regulate coronary vessel development and revascularization during heart regeneration. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	6
2	Proper migration of lymphatic endothelial cells requires survival and guidance cues from arterial mural cells. <i>ELife</i> , 2022, 11, .	2.8	6
3	Regenerating vascular mural cells in zebrafish fin blood vessels are not derived from pre-existing mural cells and differentially require <i>Pdgfrb</i> signalling for their development. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	10
4	Decoding the zebrafish genome. <i>Nature Genetics</i> , 2022, 54, 917-919.	9.4	2
5	Adaptive cell invasion maintains lateral line organ homeostasis in response to environmental changes. <i>Developmental Cell</i> , 2021, 56, 1296-1312.e7.	3.1	17
6	VEGFC/FLT4-induced cell-cycle arrest mediates sprouting and differentiation of venous and lymphatic endothelial cells. <i>Cell Reports</i> , 2021, 35, 109255.	2.9	28
7	Conserved and context-dependent roles for <i>pdgfrb</i> signaling during zebrafish vascular mural cell development. <i>Developmental Biology</i> , 2021, 479, 11-22.	0.9	19
8	5â€²-Modifications improve potency and efficacy of DNA donors for precision genome editing. <i>ELife</i> , 2021, 10, .	2.8	30
9	Back and forth: History of and new insights on the vertebrate lymphatic valve. <i>Development Growth and Differentiation</i> , 2021, , .	0.6	3
10	Integrated molecular analysis identifies a conserved pericyte gene signature in zebrafish. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	20
11	Genomic Characterization of Endothelial Enhancers Reveals a Multifunctional Role for NR2F2 in Regulation of Arteriovenous Gene Expression. <i>Circulation Research</i> , 2020, 126, 875-888.	2.0	32
12	An improved zebrafish transcriptome annotation for sensitive and comprehensive detection of cell type-specific genes. <i>ELife</i> , 2020, 9, .	2.8	72
13	Valves Are a Conserved Feature of the Zebrafish Lymphatic System. <i>Developmental Cell</i> , 2019, 51, 374-386.e5.	3.1	36
14	On the Right Track: Meningeal Lymphatics Guide Angiogenesis during Tissue Repair in the Brain. <i>Developmental Cell</i> , 2019, 49, 655-656.	3.1	2
15	<i>foxc1</i> is required for embryonic head vascular smooth muscle differentiation in zebrafish. <i>Developmental Biology</i> , 2019, 453, 34-47.	0.9	41
16	Enhanced Cas12a editing in mammalian cells and zebrafish. <i>Nucleic Acids Research</i> , 2019, 47, 4169-4180.	6.5	85
17	ATACseqQC: a Bioconductor package for post-alignment quality assessment of ATAC-seq data. <i>BMC Genomics</i> , 2018, 19, 169.	1.2	153
18	A New Conserved Player in Lymphatic Morphogenesis. <i>Circulation Research</i> , 2017, 120, 1216-1218.	2.0	0

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19	CRISPR/Cas9 editing reveals novel mechanisms of clustered microRNA regulation and function. <i>Scientific Reports</i> , 2017, 7, 8585.	1.6	32
20	Endothelial Notch signalling limits angiogenesis via control of artery formation. <i>Nature Cell Biology</i> , 2017, 19, 928-940.	4.6	111
21	Robust Identification of Developmentally Active Endothelial Enhancers in Zebrafish Using FANS-Assisted ATAC-Seq. <i>Cell Reports</i> , 2017, 20, 709-720.	2.9	62
22	195â€¦Crispr/cas9 gene editing reveals novel tertiary constraints in clustered mirna processing. <i>Heart</i> , 2017, 103, A133.1-A133.	1.2	0
23	Hdac3 regulates lymphovenous and lymphatic valve formation. <i>Journal of Clinical Investigation</i> , 2017, 127, 4193-4206.	3.9	43
24	Guidelines for morpholino use in zebrafish. <i>PLoS Genetics</i> , 2017, 13, e1007000.	1.5	255
25	Vegfa signals through ERK to promote angiogenesis, but not artery differentiation. <i>Development (Cambridge)</i> , 2016, 143, 3796-3805.	1.2	101
26	Vegfc acts through ERK to induce sprouting and differentiation of trunk lymphatic progenitors. <i>Development (Cambridge)</i> , 2016, 143, 3785-3795.	1.2	67
27	Authors response to "Comment on: 'Homozygous knockout of the piezo1 gene in the zebrafish is not associated with anemia". <i>Haematologica</i> , 2016, 101, e39-e39.	1.7	8
28	Reverse Genetics in Zebrafish: Mutants, Morphants, and Moving Forward. <i>Trends in Cell Biology</i> , 2016, 26, 77-79.	3.6	38
29	Radial glia regulate vascular patterning around the developing spinal cord. <i>ELife</i> , 2016, 5, .	2.8	62
30	Venous-derived angioblasts generate organ-specific vessels during embryonic development. <i>Development (Cambridge)</i> , 2015, 142, 4266-78.	1.2	72
31	Lymphatic vessels arise from specialized angioblasts within a venous niche. <i>Nature</i> , 2015, 522, 56-61.	13.7	197
32	A Platform for Reverse Genetics in Endothelial Cells. <i>Circulation Research</i> , 2015, 117, 107-108.	2.0	5
33	Homozygous knockout of the piezo1 gene in the zebrafish is not associated with anemia. <i>Haematologica</i> , 2015, 100, e483-e485.	1.7	23
34	Gata2b is a restricted early regulator of hemogenic endothelium in the zebrafish embryo. <i>Development (Cambridge)</i> , 2015, 142, 1050-1061.	1.2	117
35	Reverse Genetic Screening Reveals Poor Correlation between Morpholino-Induced and Mutant Phenotypes in Zebrafish. <i>Developmental Cell</i> , 2015, 32, 97-108.	3.1	666
36	Construction and Application of Site-Specific Artificial Nucleases for Targeted Gene Editing. <i>Methods in Molecular Biology</i> , 2014, 1101, 267-303.	0.4	9

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37	Distinct Notch signaling outputs pattern the developing arterial system. <i>Development (Cambridge)</i> , 2014, 141, 1544-1552.	1.2	97
38	Estrogen Defines the Dorsal-Ventral Limit of VEGF Regulation to Specify the Location of the Hemogenic Endothelial Niche. <i>Developmental Cell</i> , 2014, 29, 437-453.	3.1	36
39	MicroRNA Control of Vascular Endothelial Growth Factor Signaling Output During Vascular Development. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2013, 33, 193-200.	1.1	63
40	Accurate identification of polyadenylation sites from 3' end deep sequencing using a naïve Bayes classifier. <i>Bioinformatics</i> , 2013, 29, 2564-2571.	1.8	28
41	Post-transcriptional mechanisms contribute to Etv2 repression during vascular development. <i>Developmental Biology</i> , 2013, 384, 128-140.	0.9	31
42	A truncation allele in <i>vascular endothelial growth factor c</i> reveals distinct modes of signaling during lymphatic and vascular development. <i>Development (Cambridge)</i> , 2013, 140, 1497-1506.	1.2	98
43	Targeted chromosomal deletions and inversions in zebrafish. <i>Genome Research</i> , 2013, 23, 1008-1017.	2.4	96
44	Zebrafish neurofibromatosis type 1 genes have redundant functions in tumorigenesis and embryonic development. <i>DMM Disease Models and Mechanisms</i> , 2012, 5, 881-94.	1.2	72
45	miR-221 Is Required for Endothelial Tip Cell Behaviors during Vascular Development. <i>Developmental Cell</i> , 2012, 22, 418-429.	3.1	156
46	Regulation of intrahepatic biliary duct morphogenesis by Claudin 15-like b. <i>Developmental Biology</i> , 2012, 361, 68-78.	0.9	43
47	A somitic Wnt16/Notch pathway specifies haematopoietic stem cells. <i>Nature</i> , 2011, 474, 220-224.	13.7	192
48	Forward and Reverse Genetic Approaches for the Analysis of Vertebrate Development in the Zebrafish. <i>Developmental Cell</i> , 2011, 21, 48-64.	3.1	155
49	The cilia protein IFT88 is required for spindle orientation in mitosis. <i>Nature Cell Biology</i> , 2011, 13, 461-468.	4.6	148
50	Identification of cis regulatory features in the embryonic zebrafish genome through large-scale profiling of H3K4me1 and H3K4me3 binding sites. <i>Developmental Biology</i> , 2011, 357, 450-462.	0.9	76
51	Centrin depletion causes cyst formation and other ciliopathy-related phenotypes in zebrafish. <i>Cell Cycle</i> , 2011, 10, 3964-3972.	1.3	34
52	Evaluation and application of modularly assembled zinc-finger nucleases in zebrafish. <i>Development (Cambridge)</i> , 2011, 138, 4555-4564.	1.2	78
53	Zinc finger protein-dependent and -independent contributions to the in vivo off-target activity of zinc finger nucleases. <i>Nucleic Acids Research</i> , 2011, 39, 381-392.	6.5	104
54	BMP signaling orchestrates photoreceptor specification in the zebrafish pineal gland in collaboration with Notch. <i>Development (Cambridge)</i> , 2011, 138, 2293-2302.	1.2	24

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55	ChIPpeakAnno: a Bioconductor package to annotate ChIP-seq and ChIP-chip data. BMC Bioinformatics, 2010, 11, 237.	1.2	963
56	Reiterative use of the notch signal during zebrafish intrahepatic biliary development. Developmental Dynamics, 2010, 239, 855-864.	0.8	100
57	MicroRNA-mediated integration of haemodynamics and Vegf signalling during angiogenesis. Nature, 2010, 464, 1196-1200.	13.7	412
58	Role of Delta-like-4/Notch in the Formation and Wiring of the Lymphatic Network in Zebrafish. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1695-1702.	1.1	118
59	Notch Activity Levels Control the Balance between Quiescence and Recruitment of Adult Neural Stem Cells. Journal of Neuroscience, 2010, 30, 7961-7974.	1.7	247
60	A Novel miRNA Processing Pathway Independent of Dicer Requires Argonaute2 Catalytic Activity. Science, 2010, 328, 1694-1698.	6.0	718
61	Chemokine signaling guides regional patterning of the first embryonic artery. Genes and Development, 2009, 23, 2272-2277.	2.7	116
62	Cardiac and vascular functions of the zebrafish orthologues of the type I neurofibromatosis gene <i>NFI</i> . Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 22305-22310.	3.3	28
63	A genetic screen for vascular mutants in zebrafish reveals dynamic roles for Vegf/Plcg1 signaling during artery development. Developmental Biology, 2009, 329, 212-226.	0.9	116
64	Notch-responsive cells initiate the secondary transition in larval zebrafish pancreas. Mechanisms of Development, 2009, 126, 898-912.	1.7	311
65	Modulation of VEGF signalling output by the Notch pathway. BioEssays, 2008, 30, 303-313.	1.2	141
66	Targeted gene inactivation in zebrafish using engineered zinc-finger nucleases. Nature Biotechnology, 2008, 26, 695-701.	9.4	720
67	Zebrafish VEGF Receptors: A Guideline to Nomenclature. PLoS Genetics, 2008, 4, e1000064.	1.5	66
68	<i>pak2a</i> mutations cause cerebral hemorrhage in <i>redhead</i> zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 13996-14001.	3.3	89
69	Notch Signalling and the Regulation of Angiogenesis. Cell Adhesion and Migration, 2007, 1, 104-105.	1.1	68
70	Combinatorial function of ETS transcription factors in the developing vasculature. Developmental Biology, 2007, 303, 772-783.	0.9	202
71	Gateway compatible vectors for analysis of gene function in the zebrafish. Developmental Dynamics, 2007, 236, 3077-3087.	0.8	317
72	Notch signalling limits angiogenic cell behaviour in developing zebrafish arteries. Nature, 2007, 445, 781-784.	13.7	625

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73	Initiation of zebrafish haematopoiesis by the TATA-box-binding protein-related factor Trf3. <i>Nature</i> , 2007, 450, 1082-1085.	13.7	72
74	Global analysis of hematopoietic and vascular endothelial gene expression by tissue specific microarray profiling in zebrafish. <i>Developmental Biology</i> , 2006, 299, 551-562.	0.9	114
75	Arteries define the position of the thyroid gland during its developmental relocation. <i>Development (Cambridge)</i> , 2006, 133, 3797-3804.	1.2	98
76	Distinct genetic interactions between multiple Vegf receptors are required for development of different blood vessel types in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 6554-6559.	3.3	249
77	The zebrafish <i>kohtalo/trap230</i> gene is required for the development of the brain, neural crest, and pronephric kidney. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 18473-18478.	3.3	72
78	An essential role for Fgfs in endodermal pouch formation influences later craniofacial skeletal patterning. <i>Development (Cambridge)</i> , 2004, 131, 5703-5716.	1.2	185
79	<i>reg6</i> is required for branching morphogenesis during blood vessel regeneration in zebrafish caudal fins. <i>Developmental Biology</i> , 2003, 264, 263-274.	0.9	87
80	Angiogenic network formation in the developing vertebrate trunk. <i>Development (Cambridge)</i> , 2003, 130, 5281-5290.	1.2	462
81	phospholipase C gamma-1 is required downstream of vascular endothelial growth factor during arterial development. <i>Genes and Development</i> , 2003, 17, 1346-1351.	2.7	212
82	A nonsense mutation in zebrafish <i>gata1</i> causes the bloodless phenotype in vlad tepes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5454-5459.	3.3	148
83	Arteries, Veins, Notch, and VEGF. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2002, 67, 155-162.	2.0	61
84	In Vivo Imaging of Embryonic Vascular Development Using Transgenic Zebrafish. <i>Developmental Biology</i> , 2002, 248, 307-318.	0.9	1,917
85	sonic hedgehog and vascular endothelial growth factor Act Upstream of the Notch Pathway during Arterial Endothelial Differentiation. <i>Developmental Cell</i> , 2002, 3, 127-136.	3.1	744
86	Arteries and veins: making a difference with zebrafish. <i>Nature Reviews Genetics</i> , 2002, 3, 674-682.	7.7	248
87	Disruption of <i>acvrl1</i> increases endothelial cell number in zebrafish cranial vessels. <i>Development (Cambridge)</i> , 2002, 129, 3009-3019.	1.2	325
88	Disruption of <i>acvrl1</i> increases endothelial cell number in zebrafish cranial vessels. <i>Development (Cambridge)</i> , 2002, 129, 3009-19.	1.2	152
89	Notch signaling is required for arterial-venous differentiation during embryonic vascular development. <i>Development (Cambridge)</i> , 2001, 128, 3675-3683.	1.2	768
90	Neutrophil maturation and the role of retinoic acid. <i>Experimental Hematology</i> , 1999, 27, 1355-1367.	0.2	55

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91	Modulation of a calcium/calmodulin-dependent protein kinase cascade by retinoic acid during neutrophil maturation. <i>Experimental Hematology</i> , 1999, 27, 1682-1690.	0.2	15
92	Representational difference analysis of a committed myeloid progenitor cell line reveals evidence for bilineage potential. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998, 95, 10129-10133.	3.3	17
93	Recombinant vesicular stomatitis viruses from DNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1995, 92, 4477-4481.	3.3	598