Didier Y R Stainier

List of Publications by Year
in descending order

#	Article	IF	Citations
1	miR-126 Regulates Angiogenic Signaling and Vascular Integrity. Developmental Cell, 2008, 15, 272-284.	3.1	1,489
2	Vertebrate Smoothened functions at the primary cilium. Nature, 2005, 437, 1018-1021.	13.7	1,317
3	Genetic compensation induced by deleterious mutations but not gene knockdowns. Nature, 2015, 524, 230-233.	13.7	1,043
4	Primary contribution to zebrafish heart regeneration by gata4+ cardiomyocytes. Nature, 2010, 464, 601-605.	13.7	965
5	The perivascular niche regulates breast tumour dormancy. Nature Cell Biology, 2013, 15, 807-817.	4.6	945
6	Molecular control of endothelial cell behaviour during blood vessel morphogenesis. Nature Reviews Molecular Cell Biology, 2011, 12, 551-564.	16.1	888
7	Haematopoietic stem cells derive directly from aortic endothelium during development. Nature, 2010, 464, 108-111.	13.7	885
8	Cellular and molecular analyses of vascular tube and lumen formation in zebrafish. Development (Cambridge), 2005, 132, 5199-5209.	1.2	742
9	Genetic compensation triggered by mutant mRNA degradation. Nature, 2019, 568, 193-197.	13.7	734
10	Genetic compensation: A phenomenon in search of mechanisms. PLoS Genetics, 2017, 13, e1006780.	1.5	628
11	Hepatic stellate cells in liver development, regeneration, and cancer. Journal of Clinical Investigation, 2013, 123, 1902-1910.	3.9	553
12	Cardiac troponin T is essential in sarcomere assembly and cardiac contractility. Nature Genetics, 2002, 31, 106-110.	9.4	551
13	Selective plane illumination microscopy techniques in developmental biology. Development (Cambridge), 2009, 136, 1963-1975.	1.2	520
14	Conditional targeted cell ablation in zebrafish: A new tool for regeneration studies. Developmental Dynamics, 2007, 236, 1025-1035.	0.8	456
15	Restricted Expression of Cardiac Myosin Genes Reveals Regulated Aspects of Heart Tube Assembly in Zebrafish. Developmental Biology, 1999, 214, 23-37.	0.9	433
16	Optogenetic Control of Cardiac Function. Science, 2010, 330, 971-974.	6.0	426
17	Universal GFP reporter for the study of vascular development. Genesis, 2000, 28, 75-81.	0.8	424
18	A sphingosine-1-phosphate receptor regulates cell migration during vertebrate heart development. Nature, 2000, 406, 192-195.	13.7	410

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19	Even fluorescence excitation by multidirectional selective plane illumination microscopy (mSPIM). Optics Letters, 2007, 32, 2608.	1.7	398
20	Zebrafish genetics and vertebrate heart formation. Nature Reviews Genetics, 2001, 2, 39-48.	7.7	387
21	The endothelial-cell-derived secreted factor Egfl7 regulates vascular tube formation. Nature, 2004, 428, 754-758.	13.7	349
22	Formation of the digestive system in zebrafish. I. liver morphogenesis. Developmental Biology, 2003, 253, 279-290.	0.9	347
23	Nitroreductase-mediated cell/tissue ablation in zebrafish: a spatially and temporally controlled ablation method with applications in developmental and regeneration studies. Nature Protocols, 2008, 3, 948-954.	5.5	340
24	Foxn4 directly regulates <i>tbx2b</i> expression and atrioventricular canal formation. Genes and Development, 2008, 22, 734-739.	2.7	339
25	Formation of the digestive system in zebrafish: III. Intestinal epithelium morphogenesis. Developmental Biology, 2005, 286, 114-135.	0.9	333
26	Mesodermal Wnt2b signalling positively regulates liver specification. Nature, 2006, 442, 688-691.	13.7	322
27	Combinatorial Regulation of Endothelial Gene Expression by Ets and Forkhead Transcription Factors. Cell, 2008, 135, 1053-1064.	13.5	306
28	Genetic and cellular analyses of zebrafish atrioventricular cushion and valve development. Development (Cambridge), 2005, 132, 4193-4204.	1.2	303
29	Arterial-Venous Segregation by Selective Cell Sprouting: An Alternative Mode of Blood Vessel Formation. Science, 2009, 326, 294-298.	6.0	302
30	Fibronectin Regulates Epithelial Organization during Myocardial Migration in Zebrafish. Developmental Cell, 2004, 6, 371-382.	3.1	297
31	A molecular pathway leading to endoderm formation in zebrafish. Current Biology, 1999, 9, 1147-1157.	1.8	283
32	A common progenitor for haematopoietic and endothelial lineages in the zebrafish gastrula. Nature, 2006, 443, 337-339.	13.7	280
33	casanova encodes a novel Sox-related protein necessary and sufficient for early endoderm formation in zebrafish. Genes and Development, 2001, 15, 1493-1505.	2.7	273
34	Formation of the digestive system in zebrafish. ii. pancreas morphogenesisâ˜†. Developmental Biology, 2003, 261, 197-208.	0.9	265
35	Positional cloning of heart and soul reveals multiple roles for PKCÎ» in zebrafish organogenesis. Current Biology, 2001, 11, 1492-1502.	1.8	264
36	UDP-Glucose Dehydrogenase Required for Cardiac Valve Formation in Zebrafish. Science, 2001, 293, 1670-1673.	6.0	263

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37	casanova Plays an Early and Essential Role in Endoderm Formation in Zebrafish. Developmental Biology, 1999, 215, 343-357.	0.9	258
38	Guidelines for morpholino use in zebrafish. PLoS Genetics, 2017, 13, e1007000.	1.5	255
39	Little Fish, Big Data: Zebrafish as a Model for Cardiovascular and Metabolic Disease. Physiological Reviews, 2017, 97, 889-938.	13.1	250
40	Mutation of weak atrium/atrial myosin heavy chain disrupts atrial function and influences ventricular morphogenesis in zebrafish. Development (Cambridge), 2003, 130, 6121-6129.	1.2	241
41	Uncovering the Molecular and Cellular Mechanisms of Heart Development Using the Zebrafish. Annual Review of Genetics, 2012, 46, 397-418.	3.2	236
42	Genetic and Physiologic Dissection of the Vertebrate Cardiac Conduction System. PLoS Biology, 2008, 6, e109.	2.6	233
43	In vivo cardiac reprogramming contributes to zebrafish heart regeneration. Nature, 2013, 498, 497-501.	13.7	229
44	Genetic control of single lumen formation in the zebrafish gut. Nature Cell Biology, 2007, 9, 954-960.	4.6	227
45	Zebrafish model for human long QT syndrome. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 11316-11321.	3.3	215
46	microRNA-138 modulates cardiac patterning during embryonic development. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 17830-17835.	3.3	214
47	Limited forward trafficking of connexin 43 reduces cell-cell coupling in stressed human and mouse myocardium. Journal of Clinical Investigation, 2010, 120, 266-279.	3.9	213
48	Reciprocal analyses in zebrafish and medaka reveal that harnessing the immune response promotes cardiac regeneration. ELife, 2017, 6, .	2.8	211
49	Patterning the zebrafish heart tube: Acquisition of anteroposterior polarity. Developmental Biology, 1992, 153, 91-101.	0.9	205
50	From endoderm formation to liver and pancreas development in zebrafish. Mechanisms of Development, 2003, 120, 5-18.	1.7	205
51	Different levels of Notch signaling regulate quiescence, renewal and differentiation in pancreatic endocrine progenitors. Development (Cambridge), 2012, 139, 1557-1567.	1.2	197
52	Injury-induced <i>ctgfa</i> directs glial bridging and spinal cord regeneration in zebrafish. Science, 2016, 354, 630-634.	6.0	196
53	A dual role for ErbB2 signaling in cardiac trabeculation. Development (Cambridge), 2010, 137, 3867-3875.	1.2	195
54	Early Myocardial Function Affects Endocardial Cushion Development in Zebrafish. PLoS Biology, 2004, 2, e129.	2.6	191

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55	Bmp and Fgf signaling are essential for liver specification in zebrafish. Development (Cambridge), 2007, 134, 2041-2050.	1.2	190
56	Extensive Conversion of Hepatic Biliary Epithelial Cells to Hepatocytes After Near Total Loss of Hepatocytes in Zebrafish. Gastroenterology, 2014, 146, 776-788.	0.6	190
57	High-speed imaging of developing heart valves reveals interplay of morphogenesis and function. Development (Cambridge), 2008, 135, 1179-1187.	1.2	188
58	Fgf10 regulates hepatopancreatic ductal system patterning and differentiation. Nature Genetics, 2007, 39, 397-402.	9.4	182
59	Tip cell-specific requirement for an atypical Gpr124- and Reck-dependent Wnt/Î²-catenin pathway during brain angiogenesis. ELife, 2015, 4, .	2.8	182
60	Ubiad1 Is an Antioxidant Enzyme that Regulates eNOS Activity by CoQ10 Synthesis. Cell, 2013, 152, 504-518.	13.5	176
61	Chromatin remodelling complex dosage modulates transcription factor function in heart development. Nature Communications, 2011, 2, 187.	5.8	175
62	Fast revascularization of the injured area is essential to support zebrafish heart regeneration. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 11237-11242.	3.3	172
63	Adenosine Signaling Promotes Regeneration of Pancreatic Î² Cells InÂVivo. Cell Metabolism, 2012, 15, 885-894.	7.2	170
64	The zebrafish <i>bonnie and clyde</i> gene encodes a Mix family homeodomain protein that regulates the generation of endodermal precursors. Genes and Development, 2000, 14, 1279-1289.	2.7	170
65	A molecular mechanism for Wnt ligand-specific signaling. Science, 2018, 361, .	6.0	169
66	Yap reprograms glutamine metabolism to increase nucleotide biosynthesis and enable liver growth. Nature Cell Biology, 2016, 18, 886-896.	4.6	168
67	The G Protein-Coupled Receptor Agtrl1b Regulates Early Development of Myocardial Progenitors. Developmental Cell, 2007, 12, 403-413.	3.1	167
68	Screening mosaic F1 females for mutations affecting zebrafish heart induction and patterning. Genesis, 1998, 22, 288-299.	3.1	162
69	Whole-organism screening for gluconeogenesis identifies activators of fasting metabolism. Nature Chemical Biology, 2013, 9, 97-104.	3.9	161
70	A glimpse into the molecular entrails of endoderm formation. Genes and Development, 2002, 16, 893-907.	2.7	159
71	Loss-of-function genetic tools for animal models: cross-species and cross-platform differences. Nature Reviews Genetics, 2017, 18, 24-40.	7.7	159
72	Interferon Gamma Signaling Positively Regulates Hematopoietic Stem Cell Emergence. Developmental Cell, 2014, 31, 640-653.	3.1	158

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73	The Spinster Homolog, Two of Hearts, Is Required for Sphingosine 1-Phosphate Signaling in Zebrafish. Current Biology, 2008, 18, 1882-1888.	1.8	157
74	Distinct populations of quiescent and proliferative pancreatic Î²-cells identified by HOTcre mediated labeling. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 14896-14901.	3.3	157
75	In vivo cell biology: following the zebrafish trend. Trends in Cell Biology, 2006, 16, 105-112.	3.6	153
76	Out with the old, in with the new: reassessing morpholino knockdowns in light of genome editing technology. Development (Cambridge), 2014, 141, 3103-3104.	1.2	152
77	Cloche is a bHLH-PAS transcription factor that drives haemato-vascular specification. Nature, 2016, 535, 294-298.	13.7	151
78	Transcriptional Silencing and Reactivation in Transgenic Zebrafish. Genetics, 2009, 182, 747-755.	1.2	149
79	Bmp2 Signaling Regulates the Hepatic versus Pancreatic Fate Decision. Developmental Cell, 2008, 15, 738-748.	3.1	142
80	A Slit/miR-218/Robo regulatory loop is required during heart tube formation in zebrafish. Development (Cambridge), 2011, 138, 1409-1419.	1.2	142
81	Lessons from â€œLowerâ€•Organisms: What Worms, Flies, and Zebrafish Can Teach Us about Human Energy Metabolism. PLoS Genetics, 2007, 3, e199.	1.5	140
82	Loss of Dnmt1 catalytic activity reveals multiple roles for DNA methylation during pancreas development and regeneration. Developmental Biology, 2009, 334, 213-223.	0.9	139
83	Microsomal Triglyceride Transfer Protein Is Required for Yolk Lipid Utilization and Absorption of Dietary Lipids in Zebrafish Larvaeâ€. Biochemistry, 2006, 45, 15179-15187.	1.2	136
84	A role for the extraembryonic yolk syncytial layer in patterning the zebrafish embryo suggested by properties of the hex gene. Current Biology, 1999, 9, 1131-S4.	1.8	134
85	Birc2 (cIap1) regulates endothelial cell integrity and blood vessel homeostasis. Nature Genetics, 2007, 39, 1397-1402.	9.4	131
86	ETS Factors Regulate Vegf-Dependent Arterial Specification. Developmental Cell, 2013, 26, 45-58.	3.1	124
87	A transgene-assisted genetic screen identifies essential regulators of vascular development in vertebrate embryos. Developmental Biology, 2007, 307, 29-42.	0.9	123
88	Zebrafish in the Study of Early Cardiac Development. Circulation Research, 2012, 110, 870-874.	2.0	119
89	Cardiac contraction activates endocardial Notch signaling to modulate chamber maturation in zebrafish. Development (Cambridge), 2015, 142, 4080-4091.	1.2	117
90	High-resolution imaging of cardiomyocyte behavior reveals two distinct steps in ventricular trabeculation. Development (Cambridge), 2014, 141, 585-593.	1.2	116

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91	A monocarboxylate transporter required for hepatocyte secretion of ketone bodies during fasting. Genes and Development, 2012, 26, 282-293.	2.7	115
92	The yolk syncytial layer regulates myocardial migration by influencing extracellular matrix assembly in zebrafish. Development (Cambridge), 2006, 133, 4063-4072.	1.2	113
93	A Cellular Framework for Gut-Looping Morphogenesis in Zebrafish. Science, 2003, 302, 662-665.	6.0	111
94	The zebrafish as a model system to study cardiovascular development. Trends in Cardiovascular Medicine, 1994, 4, 207-212.	2.3	109
95	<i>Iroquois homeobox gene 3</i> establishes fast conduction in the cardiac Hisâ€"Purkinje network. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13576-13581.	3.3	109
96	<i>glucagon</i> is essential for alpha cell transdifferentiation and beta cell neogenesis. Development (Cambridge), 2015, 142, 1407-1417.	1.2	108
97	sox9b Is a Key Regulator of Pancreaticobiliary Ductal System Development. PLoS Genetics, 2012, 8, e1002754.	1.5	107
98	A mutation in the atrial-specific myosin light chain gene (MYL4) causes familial atrial fibrillation. Nature Communications, 2016, 7, 11303.	5.8	106
99	In vivo modulation of endothelial polarization by Apelin receptor signalling. Nature Communications, 2016, 7, 11805.	5.8	105
100	Cardiac conduction is required to preserve cardiac chamber morphology. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14662-14667.	3.3	103
101	Isolation of the zebrafish homologues for thetie-1 andtie-2 endothelium-specific receptor tyrosine kinases. Developmental Dynamics, 1998, 212, 133-140.	0.8	101
102	Vegfc is required for vascular development and endoderm morphogenesis in zebrafish. EMBO Reports, 2004, 5, 78-84.	2.0	98
103	Making Sense of Anti-Sense Data. Developmental Cell, 2015, 32, 7-8.	3.1	98
104	Dynamic glucoregulation and mammalian-like responses to metabolic and developmental disruption in zebrafish. General and Comparative Endocrinology, 2011, 170, 334-345.	0.8	96
105	Hif-1Î± regulates macrophage-endothelial interactions during blood vessel development in zebrafish. Nature Communications, 2017, 8, 15492.	5.8	96
106	Use of three-dimensional organoids and lung-on-a-chip methods to study lung development, regeneration and disease. European Respiratory Journal, 2018, 52, 1800876.	3.1	96
107	Immune responses in cardiac repair and regeneration: a comparative point of view. Cellular and Molecular Life Sciences, 2019, 76, 1365-1380.	2.4	96
108	No Organ Left Behind: Tales of Gut Development and Evolution. Science, 2005, 307, 1902-1904.	6.0	95

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109	Tbx5 and Bmp Signaling Are Essential for Proepicardium Specification in Zebrafish. Circulation Research, 2010, 106, 1818-1828.	2.0	95
110	Endothelial Signals Modulate Hepatocyte Apicobasal Polarization in Zebrafish. Current Biology, 2008, 18, 1565-1571.	1.8	94
111	Paraxial Mesoderm Is the Major Source of Lymphatic Endothelium. Developmental Cell, 2019, 50, 247-255.e3.	3.1	94
112	The elongation factors Pandora/Spt6 and Foggy/Spt5 promote transcription in the zebrafish embryo. Development (Cambridge), 2002, 129, 1623-1632.	1.2	93
113	Coronary Revascularization During Heart Regeneration Is Regulated by Epicardial and Endocardial Cues and Forms a Scaffold for Cardiomyocyte Repopulation. Developmental Cell, 2019, 51, 503-515.e4.	3.1	89
114	Intra-Endodermal Interactions Are Required for Pancreatic Î² Cell Induction. Developmental Cell, 2008, 14, 582-593.	3.1	88
115	A Mutation in Zebrafish hmgcr1b Reveals a Role for Isoprenoids in Vertebrate Heart-Tube Formation. Current Biology, 2007, 17, 252-259.	1.8	87
116	AP-1 Contributes to Chromatin Accessibility to Promote Sarcomere Disassembly and Cardiomyocyte Protrusion During Zebrafish Heart Regeneration. Circulation Research, 2020, 126, 1760-1778.	2.0	87
117	MicroRNA-10 Regulates the Angiogenic Behavior of Zebrafish and Human Endothelial Cells by Promoting Vascular Endothelial Growth Factor Signaling. Circulation Research, 2012, 111, 1421-1433.	2.0	84
118	Sheath Cell Invasion and Trans-differentiation Repair Mechanical Damage Caused by Loss of Caveolae in the Zebrafish Notochord. Current Biology, 2017, 27, 1982-1989.e3.	1.8	83
119	The Extracellular Domain of Smoothened Regulates Ciliary Localization and Is Required for High-Level Hh Signaling. Current Biology, 2009, 19, 1034-1039.	1.8	81
120	Bmp2b and Oep Promote Early Myocardial Differentiation through Their Regulation of gata5. Developmental Biology, 2001, 234, 330-338.	0.9	80
121	Graded levels of Ptf1a differentially regulate endocrine and exocrine fates in the developing pancreas. Genes and Development, 2008, 22, 1445-1450.	2.7	79
122	Characterization of the Huntington's disease (HD) gene homolog in the zebrafish Danio rerio. Gene, 1998, 217, 117-125.	1.0	78
123	Three zebrafish MEF2 genes delineate somitic and cardiac muscle development in wild-type and mutant embryos. Mechanisms of Development, 1996, 59, 205-218.	1.7	77
124	Frameshift indels introduced by genome editing can lead to in-frame exon skipping. PLoS ONE, 2017, 12, e0178700.	1.1	77
125	Uhrf1 and Dnmt1 are required for development and maintenance of the zebrafish lens. Developmental Biology, 2011, 350, 50-63.	0.9	76
126	Distinct origins and molecular mechanisms contribute to lymphatic formation during cardiac growth and regeneration. ELife, 2019, 8, .	2.8	76

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127	Hand2 Regulates Extracellular Matrix Remodeling Essential for Gut-Looping Morphogenesis in Zebrafish. Developmental Cell, 2010, 18, 973-984.	3.1	75
128	The basic helix-loop-helix transcription factor, heart and neural crest derivatives expressed transcript 2, marks hepatic stellate cells in zebrafish: Analysis of stellate cell entry into the developing liver. Hepatology, 2012, 56, 1958-1970.	3.6	75
129	Metabolic Regulation of Cellular Plasticity in the Pancreas. Current Biology, 2013, 23, 1242-1250.	1.8	74
130	Autophagy Induction Is a Tor- and Tp53-Independent Cell Survival Response in a Zebrafish Model of Disrupted Ribosome Biogenesis. PLoS Genetics, 2013, 9, e1003279.	1.5	73
131	Whole Organism High Content Screening Identifies Stimulators of Pancreatic Beta-Cell Proliferation. PLoS ONE, 2014, 9, e104112.	1.1	73
132	HHEX is a transcriptional regulator of the VEGFC/FLT4/PROX1 signaling axis during vascular development. Nature Communications, 2018, 9, 2704.	5.8	70
133	TTC26/DYF13 is an intraflagellar transport protein required for transport of motility-related proteins into flagella. ELife, 2014, 3, e01566.	2.8	69
134	Intracardiac flow dynamics regulate atrioventricular valve morphogenesis. Cardiovascular Research, 2014, 104, 49-60.	1.8	67
135	Identification of Chemical Inhibitors of Î²-Catenin-Driven Liver Tumorigenesis in Zebrafish. PLoS Genetics, 2015, 11, e1005305.	1.5	67
136	Apelin signaling drives vascular endothelial cells toward a pro-angiogenic state. ELife, 2020, 9, .	2.8	67
137	Genetic Evidence for a Noncanonical Function of Seryl-tRNA Synthetase in Vascular Development. Circulation Research, 2009, 104, 1260-1266.	2.0	64
138	Minor class splicing shapes the zebrafish transcriptome during development. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3062-3067.	3.3	64
139	Hand2 Regulates Epithelial Formation during Myocardial Differentiation. Current Biology, 2005, 15, 441-446.	1.8	63
140	VMAT2 identified as a regulator of late-stage Î²-cell differentiation. Nature Chemical Biology, 2014, 10, 141-148.	3.9	63
141	Real-time 3D visualization of cellular rearrangements during cardiac valve formation. Development (Cambridge), 2016, 143, 2217-2227.	1.2	63
142	Implications for dorsoventral axis determination from the zebrafish mutation janus. Nature, 1994, 370, 468-471.	13.7	62
143	Stimulation of glycolysis promotes cardiomyocyte proliferation after injury in adult zebrafish. EMBO Reports, 2020, 21, e49752.	2.0	62
144	Radial glia regulate vascular patterning around the developing spinal cord. ELife, 2016, 5, .	2.8	62

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145	Microarray analysis of zebrafishcloche mutant using amplified cDNA and identification of potential downstream target genes. Developmental Dynamics, 2005, 233, 1163-1172.	0.8	61
146	Actin Binding GFP Allows 4D In Vivo Imaging of Myofilament Dynamics in the Zebrafish Heart and the Identification of Erbb2 Signaling as a Remodeling Factor of Myofibril Architecture. Circulation Research, 2014, 115, 845-856.	2.0	59
147	Regulation of cardiomyocyte behavior in zebrafish trabeculation by Neuregulin 2a signaling. Nature Communications, 2017, 8, 15281.	5.8	59
148	Tension heterogeneity directs form and fate to pattern the myocardial wall. Nature, 2020, 588, 130-134.	13.7	58
149	Loss of pyruvate kinase M2 limits growth and triggers innate immune signaling in endothelial cells. Nature Communications, 2018, 9, 4077.	5.8	55
150	Regulation of Vegf signaling by natural and synthetic ligands. Blood, 2016, 128, 2359-2366.	0.6	54
151	Regulation of neurocoel morphogenesis by Pard6Î³b. Developmental Biology, 2008, 324, 41-54.	0.9	53
152	InÂVivo Visualization of Cardiomyocyte Apicobasal Polarity Reveals Epithelial to Mesenchymal-like Transition during Cardiac Trabeculation. Cell Reports, 2016, 17, 2687-2699.	2.9	53
153	Pituicyte Cues Regulate the Development of Permeable Neuro-Vascular Interfaces. Developmental Cell, 2018, 47, 711-726.e5.	3.1	53
154	Notch signaling can regulate endoderm formation in zebrafish. Developmental Dynamics, 2004, 229, 756-762.	0.8	51
155	Suppression of Ptf1a Activity Induces Acinar-to-Endocrine Conversion. Current Biology, 2011, 21, 712-717.	1.8	51
156	Nodal signaling regulates endodermal cell motility and actin dynamics via Rac1 and Prex1. Journal of Cell Biology, 2012, 198, 941-952.	2.3	51
157	Opposite effects of Activin type 2 receptor ligands on cardiomyocyte proliferation during development and repair. Nature Communications, 2017, 8, 1902.	5.8	51
158	Vegf signaling promotes vascular endothelial differentiation by modulating etv2 expression. Developmental Biology, 2017, 424, 147-161.	0.9	49
159	The potassium channel KCNJ13 is essential for smooth muscle cytoskeletal organization during mouse tracheal tubulogenesis. Nature Communications, 2018, 9, 2815.	5.8	49
160	Neuronal differentiation and maturation in the mouse trigeminal sensory system, in vivo and in vitro. Journal of Comparative Neurology, 1991, 311, 300-312.	0.9	48
161	Myocardium and BMP signaling are required for endocardial differentiation. Development (Cambridge), 2015, 142, 2304-15.	1.2	48
162	Cse1l Is a Negative Regulator of CFTR-Dependent Fluid Secretion. Current Biology, 2010, 20, 1840-1845.	1.8	47

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163	Focal adhesions are essential to drive zebrafish heart valve morphogenesis. Journal of Cell Biology, 2019, 218, 1039-1054.	2.3	47
164	Vegfa signaling promotes zebrafish intestinal vasculature development through endothelial cell migration from the posterior cardinal vein. Developmental Biology, 2016, 411, 115-127.	0.9	46
165	The flow responsive transcription factor Klf2 is required for myocardial wall integrity by modulating Fgf signaling. ELife, 2018, 7, .	2.8	46
166	A window to the heart: can zebrafish mutants help us understand heart disease in humans?. Trends in Genetics, 2002, 18, 491-494.	2.9	45
167	Multiple roles for Med12 in vertebrate endoderm development. Developmental Biology, 2008, 317, 467-479.	0.9	45
168	N-cadherin relocalization during cardiac trabeculation. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 7569-7574.	3.3	45
169	Chapter 4 Zebrafish: Genetic and Embryological Methods in a Transparent Vertebrate Embryo. Methods in Cell Biology, 1997, 52, 67-82.	0.5	44
170	Abnormal Nuclear Pore Formation Triggers Apoptosis in the Intestinal Epithelium of elys-Deficient Zebrafish. Gastroenterology, 2009, 136, 902-911.e7.	0.6	44
171	Transcriptional adaptation: a mechanism underlying genetic robustness. Development (Cambridge), 2020, 147, .	1.2	44
172	Regulation of intrahepatic biliary duct morphogenesis by Claudin 15-like b. Developmental Biology, 2012, 361, 68-78.	0.9	43
173	Analysis of Sphingosine-1-phosphate signaling mutants reveals endodermal requirements for the growth but not dorsoventral patterning of jaw skeletal precursors. Developmental Biology, 2012, 362, 230-241.	0.9	42
174	Bone morphogenetic protein signaling governs biliaryâ€driven liver regeneration in zebrafish through tbx2b and id2a. Hepatology, 2017, 66, 1616-1630.	3.6	42
175	Zebrafish mutants and TEAD reporters reveal essential functions for Yap and Taz in posterior cardinal vein development. Scientific Reports, 2018, 8, 10189.	1.6	42
176	Peri-arterial specification of vascular mural cells from naÃ¯ve mesenchyme requires Notch signaling. Development (Cambridge), 2019, 146, .	1.2	42
177	Lipid Receptors in Cardiovascular Development. Annual Review of Physiology, 2003, 65, 23-43.	5.6	40
178	Notochord vacuoles absorb compressive bone growth during zebrafish spine formation. ELife, 2020, 9, .	2.8	40
179	Conditional mutagenesis by oligonucleotide-mediated integration of loxP sites in zebrafish. PLoS Genetics, 2018, 14, e1007754.	1.5	39
180	<i>In vivo</i> analysis of cardiomyocyte proliferation during trabeculation. Development (Cambridge), 2018, 145, .	1.2	39

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181	Suppression of Alk8-mediated Bmp signaling cell-autonomously induces pancreatic Î²-cells in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1142-1147.	3.3	38
182	Restriction of hepatic competence by Fgf signaling. Development (Cambridge), 2011, 138, 1339-1348.	1.2	38
183	Modulation of Mammalian Cardiomyocyte Cytokinesis by the Extracellular Matrix. Circulation Research, 2020, 127, 896-907.	2.0	37
184	Patterning during organogenesis: genetic analysis of cardiac chamber formation. Seminars in Cell and Developmental Biology, 1999, 10, 93-98.	2.3	36
185	Regulation of posterior body and epidermal morphogenesis in zebrafish by localized Yap1 and Wwtr1. ELife, 2017, 6, .	2.8	36
186	Distinct myocardial lineages break atrial symmetry during cardiogenesis in zebrafish. ELife, 2018, 7, .	2.8	36
187	Determination of Endothelial Stalk versus Tip Cell Potential during Angiogenesis by H2.0-like Homeobox-1. Current Biology, 2012, 22, 1789-1794.	1.8	35
188	Dynamics of zebrafish fin regeneration using a pulsed SILAC approach. Proteomics, 2015, 15, 739-751.	1.3	35
189	Hif-1Î± and Hif-2Î± regulate hemogenic endothelium and hematopoietic stem cell formation in zebrafish. Blood, 2018, 131, 963-973.	0.6	35
190	Mechanical Forces Regulate Cardiomyocyte Myofilament Maturation via the VCL-SSH1-CFL Axis. Developmental Cell, 2019, 51, 62-77.e5.	3.1	35
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