Thomas F Schilling

List of Publications by Year
in descending order

69 papers	14,481 citations	109321 35 h-index	128289 60 g-index
77 all docs	77 docs citations	77 times ranked	15293 citing authors

#	Article	IF	Citations
1	Stages of embryonic development of the zebrafish. Developmental Dynamics, 1995, 203, 253-310.	1.8	10,076
2	The zebrafish<i>neckless</i>mutation reveals a requirement for<i>raldh2</i>in mesodermal signals that pattern the hindbrain. Development (Cambridge), 2001, 128, 3081-3094.	2.5	315
3	Hedgehog signaling is required for cranial neural crest morphogenesis and chondrogenesis at the midline in the zebrafish skull. Development (Cambridge), 2005, 132, 3977-3988.	2.5	265
4	Insights into early vasculogenesis revealed by expression of the ETS-domain transcription factor Fli-1 in wild-type and mutant zebrafish embryos. Mechanisms of Development, 2000, 90, 237-252.	1.7	240
5	Complex Regulation of cyp26a1 Creates a Robust Retinoic Acid Gradient in the Zebrafish Embryo. PLoS Biology, 2007, 5, e304.	5.6	213
6	<i>lockjaw</i>encodes a zebrafish<i>tfap2a</i>required for early neural crest development. Development (Cambridge), 2003, 130, 5755-5768.	2.5	190
7	Pharyngeal arch patterning in the absence of neural crest. Current Biology, 1999, 9, 1481-1484.	3.9	186
8	Requirement for endoderm and FGF3 in ventral head skeleton formation. Development (Cambridge), 2002, 129, 4457-4468.	2.5	143
9	Tendon development and musculoskeletal assembly: emerging roles for the extracellular matrix. Development (Cambridge), 2015, 142, 4191-4204.	2.5	125
10	M<scp>olecular</scp>D<scp>issection of</scp>C<scp>raniofacial</scp>D<scp>evelopment</scp>U<scp>sing</scp>Z<scp>ebrafish</scp>. Critical Reviews in Oral Biology and Medicine, 2002, 13, 308-322.	4.4	118
11	Cranial Neural Crest and Development of the Head Skeleton. , 2006, 589, 120-133.		111
12	Tfap2 transcription factors in zebrafish neural crest development and ectodermal evolution. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 679-691.	1.3	110
13	Genetic analysis of craniofacial development in the vertebrate embryo. BioEssays, 1997, 19, 459-468.	2.5	107
14	Plasticity in Zebrafish hox Expression in the Hindbrain and Cranial Neural Crest. Developmental Biology, 2001, 231, 201-216.	2.0	107
15	Thrombospondin-4 controls matrix assembly during development and repair of myotendinous junctions. ELife, 2014, 3, .	6.0	104
16	Origins of anteroposterior patterning andHoxgene regulation during chordate evolution. Philosophical Transactions of the Royal Society B: Biological Sciences, 2001, 356, 1599-1613.	4.0	96
17	Combinatorial roles for BMPs and Endothelin 1 in patterning the dorsal-ventral axis of the craniofacial skeleton. Development (Cambridge), 2011, 138, 5135-5146.	2.5	94
18	How degrading: Cyp26s in hindbrain development. Developmental Dynamics, 2008, 237, 2775-2790.	1.8	91

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19	Dynamics and precision in retinoic acid morphogen gradients. Current Opinion in Genetics and Development, 2012, 22, 562-569.	3.3	88
20	Requirements for Endothelin type-A receptors and Endothelin-1 signaling in the facial ectoderm for the patterning of skeletogenic neural crest cells in zebrafish. Development (Cambridge), 2007, 134, 335-345.	2.5	87
21	Regulation of facial morphogenesis by endothelin signaling: Insights from mice and fish. American Journal of Medical Genetics, Part A, 2010, 152A, 2962-2973.	1.2	87
22	Mechanical force regulates tendon extracellular matrix organization and tenocyte morphogenesis through TGFbeta signaling. ELife, 2018, 7, .	6.0	81
23	Gremlin 2 regulates distinct roles of BMP and Endothelin 1 signaling in dorsoventral patterning of the facial skeleton. Development (Cambridge), 2011, 138, 5147-5156.	2.5	79
24	Noise drives sharpening of gene expression boundaries in the zebrafish hindbrain. Molecular Systems Biology, 2012, 8, 613.	7.2	78
25	Development of Cartilage and Bone. Methods in Cell Biology, 2004, 76, 415-436.	1.1	77
26	AP2-dependent signals from the ectoderm regulate craniofacial development in the zebrafish embryo. Development (Cambridge), 2005, 132, 3127-3138.	2.5	73
27	Skeletal and pigment cell defects in the <i>lockjaw</i> mutant reveal multiple roles for zebrafish <i>tfap2a</i> in neural crest development. Developmental Dynamics, 2004, 229, 87-98.	1.8	67
28	Nipbl and Mediator Cooperatively Regulate Gene Expression to Control Limb Development. PLoS Genetics, 2014, 10, e1004671.	3.5	65
29	Robust regeneration of adult zebrafish lateral line hair cells reflects continued precursor pool maintenance. Developmental Biology, 2015, 402, 229-238.	2.0	65
30	Requirement for endoderm and FGF3 in ventral head skeleton formation. Development (Cambridge), 2002, 129, 4457-68.	2.5	62
31	Fat-Dachsous Signaling Coordinates Cartilage Differentiation and Polarity during Craniofacial Development. PLoS Genetics, 2014, 10, e1004726.	3.5	56
32	Understanding endothelin-1 function during craniofacial development in the mouse and zebrafish. Birth Defects Research Part C: Embryo Today Reviews, 2004, 72, 190-199.	3.6	54
33	Independent roles for retinoic acid in segmentation and neuronal differentiation in the zebrafish hindbrain. Developmental Biology, 2004, 270, 186-199.	2.0	51
34	Cellular retinoic acid-binding proteins are essential for hindbrain patterning and signal robustness in zebrafish. Development (Cambridge), 2012, 139, 2150-2155.	2.5	51
35	Fascin1-Dependent Filopodia are Required for Directional Migration of a Subset of Neural Crest Cells. PLoS Genetics, 2015, 11, e1004946.	3.5	47
36	Wnt Signaling Interacts with Bmp and Edn1 to Regulate Dorsal-Ventral Patterning and Growth of the Craniofacial Skeleton. PLoS Genetics, 2014, 10, e1004479.	3.5	41

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37	Two Distinct Aquaporin 0s Required for Development and Transparency of the Zebrafish Lens. , 2010, 51, 6582.		39
38	Noise modulation in retinoic acid signaling sharpens segmental boundaries of gene expression in the embryonic zebrafish hindbrain. ELife, 2016, 5, e14034.	6.0	39
39	Rabconnectin-3a Regulates Vesicle Endocytosis and Canonical Wnt Signaling in Zebrafish Neural Crest Migration. PLoS Biology, 2014, 12, e1001852.	5.6	38
40	Inca: a novel p21-activated kinase-associated protein required for cranial neural crest development. Development (Cambridge), 2007, 134, 1279-1289.	2.5	36
41	In Vivo Analysis of Aquaporin 0 Function in Zebrafish: Permeability Regulation Is Required for Lens Transparency. , 2013, 54, 5136.		32
42	Developmental basis of phenotypic integration in two Lake Malawi cichlids. EvoDevo, 2016, 7, 3.	3.2	32
43	Cell-type heterogeneity in the early zebrafish olfactory epithelium is generated from progenitors within preplacodal ectoderm. ELife, 2018, 7, .	6.0	32
44	Ligament versus bone cell identity in the zebrafish hyoid skeleton is regulated by <i>mef2ca</i>. Development (Cambridge), 2016, 143, 4430-4440.	2.5	31
45	An ongoing role for <i>Wnt</i> signaling in differentiating melanocytes inÂvivo. Pigment Cell and Melanoma Research, 2017, 30, 219-232.	3.3	28
46	Bar, stripe and spot development in sand-dwelling cichlids from Lake Malawi. EvoDevo, 2019, 10, 18.	3.2	28
47	Single-cell transcriptomic analysis of zebrafish cranial neural crest reveals spatiotemporal regulation of lineage decisions during development. Cell Reports, 2021, 37, 110140.	6.4	24
48	Aqp0a Regulates Suture Stability in the Zebrafish Lens. , 2018, 59, 2869.		23
49	Considering the zebrafish in a comparative context. Journal of Experimental Zoology Part B: Molecular and Developmental Evolution, 2007, 308B, 515-522.	1.3	22
50	Tendon Cell Regeneration Is Mediated by Attachment Site-Resident Progenitors and BMP Signaling. Current Biology, 2020, 30, 3277-3292.e5.	3.9	19
51	Cell Sorting and Noise-Induced Cell Plasticity Coordinate to Sharpen Boundaries between Gene Expression Domains. PLoS Computational Biology, 2017, 13, e1005307.	3.2	19
52	Mean-Independent Noise Control of Cell Fates via Intermediate States. IScience, 2018, 3, 11-20.	4.1	16
53	Anterior-posterior patterning and segmentation of the vertebrate head. Integrative and Comparative Biology, 2008, 48, 658-667.	2.0	15
54	Optical development in the zebrafish eye lens. FASEB Journal, 2020, 34, 5552-5562.	0.5	15

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55	Fishing for the signals that pattern the face. Journal of Biology, 2009, 8, 101.	2.7	12
56	Endochondral growth zone pattern and activity in the zebrafish pharyngeal skeleton. Developmental Dynamics, 2021, 250, 74-87.	1.8	12
57	Neural Crest Cells in Craniofacial Skeletal Development. , 2014, , 127-151.		11
58	Modeling craniofacial development reveals spatiotemporal constraints on robust patterning of the mandibular arch. PLoS Computational Biology, 2018, 14, e1006569.	3.2	11
59	In vivo macromolecular crowding is differentially modulated by aquaporin 0 in zebrafish lens: Insights from a nanoenvironment sensor and spectral imaging. Science Advances, 2022, 8, eabj4833.	10.3	11
60	Zebrafish in comparative context: A symposium. Integrative and Comparative Biology, 2006, 46, 569-576.	2.0	6
61	Zebrafish as a Model to Study Cohesin and Cohesinopathies. Methods in Molecular Biology, 2017, 1515, 177-196.	0.9	6
62	Multiple morphogens and rapid elongation promote segmental patterning during development. PLoS Computational Biology, 2021, 17, e1009077.	3.2	6
63	Pthlha and mechanical force control early patterning of growth zones in the zebrafish craniofacial skeleton. Development (Cambridge), 2022, 149, .	2.5	6
64	Assessment of Zebrafish Lens Nucleus Localization and Sutural Integrity. Journal of Visualized Experiments, 2019, , .	0.3	3
65	Differences in a Single Extracellular Residue Underlie Adhesive Functions of Two Zebrafish Aqp0s. Cells, 2021, 10, 2005.	4.1	2
66	Transcriptomics reveals complex kinetics of dorsalâ€"ventral patterning gene expression in the mandibular arch. Genesis, 2019, 57, e23275.	1.6	0
67	A show of Hands : Novel and conserved expression patterns of teleost hand paralogs during craniofacial, heart, fin, peripheral nervous system and gut development. Developmental Dynamics, 2021, 250, 1796-1809.	1.8	0
68	Ring finger protein 14 regulates betaâ€catenin/TCFâ€mediated transcription. FASEB Journal, 2010, 24, 713.7.	0.5	0
69	Intracellular trafficking pathways in neural crest cell migration and fate specification. FASEB Journal, 2011, 25, 180.5.	0.5	0