

Thomas F Schilling

List of Publications by Year in descending order

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69
papers

14,481
citations

109137

35
h-index

128067

60
g-index

77
all docs

77
docs citations

77
times ranked

15293
citing authors

#	ARTICLE	IF	CITATIONS
1	Pthlha and mechanical force control early patterning of growth zones in the zebrafish craniofacial skeleton. <i>Development (Cambridge)</i> , 2022, 149, .	1.2	6
2	In vivo macromolecular crowding is differentially modulated by aquaporin 0 in zebrafish lens: Insights from a nanoenvironment sensor and spectral imaging. <i>Science Advances</i> , 2022, 8, eabj4833.	4.7	11
3	Endochondral growth zone pattern and activity in the zebrafish pharyngeal skeleton. <i>Developmental Dynamics</i> , 2021, 250, 74-87.	0.8	12
4	Multiple morphogens and rapid elongation promote segmental patterning during development. <i>PLoS Computational Biology</i> , 2021, 17, e1009077.	1.5	6
5	A show of Hands : Novel and conserved expression patterns of teleost hand paralogs during craniofacial, heart, fin, peripheral nervous system and gut development. <i>Developmental Dynamics</i> , 2021, 250, 1796-1809.	0.8	0
6	Differences in a Single Extracellular Residue Underlie Adhesive Functions of Two Zebrafish Aqp0s. <i>Cells</i> , 2021, 10, 2005.	1.8	2
7	Single-cell transcriptomic analysis of zebrafish cranial neural crest reveals spatiotemporal regulation of lineage decisions during development. <i>Cell Reports</i> , 2021, 37, 110140.	2.9	24
8	Tendon Cell Regeneration Is Mediated by Attachment Site-Resident Progenitors and BMP Signaling. <i>Current Biology</i> , 2020, 30, 3277-3292.e5.	1.8	19
9	Optical development in the zebrafish eye lens. <i>FASEB Journal</i> , 2020, 34, 5552-5562.	0.2	15
10	Bar, stripe and spot development in sand-dwelling cichlids from Lake Malawi. <i>EvoDevo</i> , 2019, 10, 18.	1.3	28
11	Transcriptomics reveals complex kinetics of dorsal-ventral patterning gene expression in the mandibular arch. <i>Genesis</i> , 2019, 57, e23275.	0.8	0
12	Assessment of Zebrafish Lens Nucleus Localization and Sutural Integrity. <i>Journal of Visualized Experiments</i> , 2019, , .	0.2	3
13	Aqp0a Regulates Suture Stability in the Zebrafish Lens. , 2018, 59, 2869.		23
14	Modeling craniofacial development reveals spatiotemporal constraints on robust patterning of the mandibular arch. <i>PLoS Computational Biology</i> , 2018, 14, e1006569.	1.5	11
15	Mean-Independent Noise Control of Cell Fates via Intermediate States. <i>IScience</i> , 2018, 3, 11-20.	1.9	16
16	Cell-type heterogeneity in the early zebrafish olfactory epithelium is generated from progenitors within preplacodal ectoderm. <i>ELife</i> , 2018, 7, .	2.8	32
17	Mechanical force regulates tendon extracellular matrix organization and tenocyte morphogenesis through TGFbeta signaling. <i>ELife</i> , 2018, 7, .	2.8	81
18	An ongoing role for <i>Wnt</i> signaling in differentiating melanocytes in vivo. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 219-232.	1.5	28

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19	Zebrafish as a Model to Study Cohesin and Cohesinopathies. <i>Methods in Molecular Biology</i> , 2017, 1515, 177-196.	0.4	6
20	Cell Sorting and Noise-Induced Cell Plasticity Coordinate to Sharpen Boundaries between Gene Expression Domains. <i>PLoS Computational Biology</i> , 2017, 13, e1005307.	1.5	19
21	Ligament versus bone cell identity in the zebrafish hyoid skeleton is regulated by <i>mef2ca</i> . <i>Development (Cambridge)</i> , 2016, 143, 4430-4440.	1.2	31
22	Developmental basis of phenotypic integration in two Lake Malawi cichlids. <i>EvoDevo</i> , 2016, 7, 3.	1.3	32
23	Noise modulation in retinoic acid signaling sharpens segmental boundaries of gene expression in the embryonic zebrafish hindbrain. <i>ELife</i> , 2016, 5, e14034.	2.8	39
24	Tendon development and musculoskeletal assembly: emerging roles for the extracellular matrix. <i>Development (Cambridge)</i> , 2015, 142, 4191-4204.	1.2	125
25	Fascin1-Dependent Filopodia are Required for Directional Migration of a Subset of Neural Crest Cells. <i>PLoS Genetics</i> , 2015, 11, e1004946.	1.5	47
26	Robust regeneration of adult zebrafish lateral line hair cells reflects continued precursor pool maintenance. <i>Developmental Biology</i> , 2015, 402, 229-238.	0.9	65
27	Rabconnectin-3a Regulates Vesicle Endocytosis and Canonical Wnt Signaling in Zebrafish Neural Crest Migration. <i>PLoS Biology</i> , 2014, 12, e1001852.	2.6	38
28	Wnt Signaling Interacts with Bmp and Edn1 to Regulate Dorsal-Ventral Patterning and Growth of the Craniofacial Skeleton. <i>PLoS Genetics</i> , 2014, 10, e1004479.	1.5	41
29	Neural Crest Cells in Craniofacial Skeletal Development. , 2014, , 127-151.		11
30	Nipbl and Mediator Cooperatively Regulate Gene Expression to Control Limb Development. <i>PLoS Genetics</i> , 2014, 10, e1004671.	1.5	65
31	Fat-Dachshous Signaling Coordinates Cartilage Differentiation and Polarity during Craniofacial Development. <i>PLoS Genetics</i> , 2014, 10, e1004726.	1.5	56
32	Thrombospondin-4 controls matrix assembly during development and repair of myotendinous junctions. <i>ELife</i> , 2014, 3, .	2.8	104
33	In Vivo Analysis of Aquaporin 0 Function in Zebrafish: Permeability Regulation Is Required for Lens Transparency. , 2013, 54, 5136.		32
34	Cellular retinoic acid-binding proteins are essential for hindbrain patterning and signal robustness in zebrafish. <i>Development (Cambridge)</i> , 2012, 139, 2150-2155.	1.2	51
35	Noise drives sharpening of gene expression boundaries in the zebrafish hindbrain. <i>Molecular Systems Biology</i> , 2012, 8, 613.	3.2	78
36	Dynamics and precision in retinoic acid morphogen gradients. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 562-569.	1.5	88

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37	Combinatorial roles for BMPs and Endothelin 1 in patterning the dorsal-ventral axis of the craniofacial skeleton. <i>Development (Cambridge)</i> , 2011, 138, 5135-5146.	1.2	94
38	Gremlin 2 regulates distinct roles of BMP and Endothelin 1 signaling in dorsoventral patterning of the facial skeleton. <i>Development (Cambridge)</i> , 2011, 138, 5147-5156.	1.2	79
39	Intracellular trafficking pathways in neural crest cell migration and fate specification. <i>FASEB Journal</i> , 2011, 25, 180.5.	0.2	0
40	Regulation of facial morphogenesis by endothelin signaling: Insights from mice and fish. <i>American Journal of Medical Genetics, Part A</i> , 2010, 152A, 2962-2973.	0.7	87
41	Two Distinct Aquaporin Os Required for Development and Transparency of the Zebrafish Lens. , 2010, 51, 6582.		39
42	Ring finger protein 14 regulates beta-catenin/TCF-mediated transcription. <i>FASEB Journal</i> , 2010, 24, 713.7.	0.2	0
43	Fishing for the signals that pattern the face. <i>Journal of Biology</i> , 2009, 8, 101.	2.7	12
44	How degrading: Cyp26s in hindbrain development. <i>Developmental Dynamics</i> , 2008, 237, 2775-2790.	0.8	91
45	Anterior-posterior patterning and segmentation of the vertebrate head. <i>Integrative and Comparative Biology</i> , 2008, 48, 658-667.	0.9	15
46	Complex Regulation of cyp26a1 Creates a Robust Retinoic Acid Gradient in the Zebrafish Embryo. <i>PLoS Biology</i> , 2007, 5, e304.	2.6	213
47	Requirements for Endothelin type-A receptors and Endothelin-1 signaling in the facial ectoderm for the patterning of skeletogenic neural crest cells in zebrafish. <i>Development (Cambridge)</i> , 2007, 134, 335-345.	1.2	87
48	Inca: a novel p21-activated kinase-associated protein required for cranial neural crest development. <i>Development (Cambridge)</i> , 2007, 134, 1279-1289.	1.2	36
49	Tfap2 transcription factors in zebrafish neural crest development and ectodermal evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 679-691.	0.6	110
50	Considering the zebrafish in a comparative context. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 515-522.	0.6	22
51	Cranial Neural Crest and Development of the Head Skeleton. , 2006, 589, 120-133.		111
52	Zebrafish in comparative context: A symposium. <i>Integrative and Comparative Biology</i> , 2006, 46, 569-576.	0.9	6
53	Hedgehog signaling is required for cranial neural crest morphogenesis and chondrogenesis at the midline in the zebrafish skull. <i>Development (Cambridge)</i> , 2005, 132, 3977-3988.	1.2	265
54	AP2-dependent signals from the ectoderm regulate craniofacial development in the zebrafish embryo. <i>Development (Cambridge)</i> , 2005, 132, 3127-3138.	1.2	73

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55	Development of Cartilage and Bone. <i>Methods in Cell Biology</i> , 2004, 76, 415-436.	0.5	77
56	Understanding endothelin-1 function during craniofacial development in the mouse and zebrafish. <i>Birth Defects Research Part C: Embryo Today Reviews</i> , 2004, 72, 190-199.	3.6	54
57	Skeletal and pigment cell defects in the lockjaw mutant reveal multiple roles for zebrafish <i>tfap2a</i> in neural crest development. <i>Developmental Dynamics</i> , 2004, 229, 87-98.	0.8	67
58	Independent roles for retinoic acid in segmentation and neuronal differentiation in the zebrafish hindbrain. <i>Developmental Biology</i> , 2004, 270, 186-199.	0.9	51
59	lockjaw encodes a zebrafish <i>tfap2a</i> required for early neural crest development. <i>Development (Cambridge)</i> , 2003, 130, 5755-5768.	1.2	190
60	Molecular dissection of Craniofacial Development Using Zebrafish. <i>Critical Reviews in Oral Biology and Medicine</i> , 2002, 13, 308-322.	4.4	118
61	Requirement for endoderm and FGF3 in ventral head skeleton formation. <i>Development (Cambridge)</i> , 2002, 129, 4457-4468.	1.2	143
62	Requirement for endoderm and FGF3 in ventral head skeleton formation. <i>Development (Cambridge)</i> , 2002, 129, 4457-68.	1.2	62
63	Origins of anteroposterior patterning and Hox gene regulation during chordate evolution. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2001, 356, 1599-1613.	1.8	96
64	Plasticity in Zebrafish hox Expression in the Hindbrain and Cranial Neural Crest. <i>Developmental Biology</i> , 2001, 231, 201-216.	0.9	107
65	The zebrafish <i>neckless</i> mutation reveals a requirement for <i>raldh2</i> in mesodermal signals that pattern the hindbrain. <i>Development (Cambridge)</i> , 2001, 128, 3081-3094.	1.2	315
66	Insights into early vasculogenesis revealed by expression of the ETS-domain transcription factor Fli-1 in wild-type and mutant zebrafish embryos. <i>Mechanisms of Development</i> , 2000, 90, 237-252.	1.7	240
67	Pharyngeal arch patterning in the absence of neural crest. <i>Current Biology</i> , 1999, 9, 1481-1484.	1.8	186
68	Genetic analysis of craniofacial development in the vertebrate embryo. <i>BioEssays</i> , 1997, 19, 459-468.	1.2	107
69	Stages of embryonic development of the zebrafish. <i>Developmental Dynamics</i> , 1995, 203, 253-310.	0.8	10,076