

# Charles B Kimmel

## List of Publications by Year in descending order

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57  
papers

15,518  
citations

117619

34  
h-index

161844

54  
g-index

60  
all docs

60  
docs citations

60  
times ranked

14410  
citing authors

#	ARTICLE	IF	CITATIONS
1	Stages of embryonic development of the zebrafish. <i>Developmental Dynamics</i> , 1995, 203, 253-310.	1.8	10,076
2	A homeobox gene essential for zebrafish notochord development. <i>Nature</i> , 1995, 378, 150-157.	27.8	441
3	The cyclops mutation blocks specification of the floor plate of the zebrafish central nervous system. <i>Nature</i> , 1991, 350, 339-341.	27.8	421
4	Inhibition of zebrafish <i>fgf8</i> pre-mRNA splicing with morpholino oligos: A quantifiable method for gene knockdown. <i>Genesis</i> , 2001, 30, 154-156.	1.6	352
5	The development and behavioral characteristics of the startle response in the zebra fish. <i>Developmental Psychobiology</i> , 1974, 7, 47-60.	1.6	298
6	Anatomy of the posterior lateral line system in young larvae of the zebrafish. <i>Journal of Comparative Neurology</i> , 1985, 233, 377-389.	1.6	278
7	Segmental homologies among reticulospinal neurons in the hindbrain of the zebrafish larva. <i>Journal of Comparative Neurology</i> , 1986, 251, 147-159.	1.6	278
8	Brain neurons which project to the spinal cord in young larvae of the zebrafish. <i>Journal of Comparative Neurology</i> , 1982, 205, 112-127.	1.6	247
9	A mutation that changes cell movement and cell fate in the zebrafish embryo. <i>Nature</i> , 1989, 337, 358-362.	27.8	245
10	The Shaping of Pharyngeal Cartilages during Early Development of the Zebrafish. <i>Developmental Biology</i> , 1998, 203, 245-263.	2.0	215
11	Specification and Morphogenesis of the Zebrafish Larval Head Skeleton. <i>Developmental Biology</i> , 2001, 233, 239-257.	2.0	162
12	Two linked <i>hairy</i> /Enhancer of <i>split</i> -related zebrafish genes, <i>her1</i> and <i>her7</i> , function together to refine alternating somite boundaries. <i>Development (Cambridge)</i> , 2002, 129, 3693-3704.	2.5	146
13	An amphioxus snail gene: Expression in paraxial mesoderm and neural plate suggests a conserved role in patterning the chordate embryo. <i>Development Genes and Evolution</i> , 1998, 208, 569-577.	0.9	134
14	Morphogenesis and synaptogenesis of the zebrafish mauthner neuron. <i>Journal of Comparative Neurology</i> , 1981, 198, 101-120.	1.6	128
15	<i>hand2</i> and <i>Dlx</i> genes specify dorsal, intermediate and ventral domains within zebrafish pharyngeal arches. <i>Development (Cambridge)</i> , 2010, 137, 2507-2517.	2.5	125
16	Mitotic domains in the early embryo of the zebrafish. <i>Nature</i> , 1992, 360, 735-737.	27.8	121
17	Endothelin 1-mediated regulation of pharyngeal bone development in zebrafish. <i>Development (Cambridge)</i> , 2003, 130, 1339-1351.	2.5	117
18	The zebrafish T-box genes <i>no tail</i> and <i>spadetail</i> are required for development of trunk and tail mesoderm and medial floor plate. <i>Development (Cambridge)</i> , 2002, 129, 3311-3323.	2.5	117

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19	Building the backbone: the development and evolution of vertebral patterning. <i>Development</i> (Cambridge), 2015, 142, 1733-1744.	2.5	115
20	Was Urbilateria segmented?. <i>Trends in Genetics</i> , 1996, 12, 329-331.	6.7	107
21	Modes of Developmental Outgrowth and Shaping of a Craniofacial Bone in Zebrafish. <i>PLoS ONE</i> , 2010, 5, e9475.	2.5	107
22	Zebrafish furin mutants reveal intricacies in regulating Endothelin1 signaling in craniofacial patterning. <i>Developmental Biology</i> , 2006, 295, 194-205.	2.0	105
23	Genetic Analysis of Fin Development in Zebrafish Identifies Furin and Hemicentin1 as Potential Novel Fraser Syndrome Disease Genes. <i>PLoS Genetics</i> , 2010, 6, e1000907.	3.5	103
24	T reticular interneurons: A class of serially repeating cells in the zebrafish hindbrain. <i>Journal of Comparative Neurology</i> , 1985, 233, 365-376.	1.6	97
25	Neural crest patterning and the evolution of the jaw. <i>Journal of Anatomy</i> , 2001, 199, 105-120.	1.5	93
26	Decreased fast-start performance of zebrafish larvae lacking mauthner neurons. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1980, 140, 343-350.	1.6	92
27	<i>barx1</i> represses joints and promotes cartilage in the craniofacial skeleton. <i>Development</i> (Cambridge), 2013, 140, 2765-2775.	2.5	67
28	Cell lineages generating axial muscle in the zebrafish embryo. <i>Nature</i> , 1987, 327, 234-237.	27.8	63
29	Spatial regulation offloating head expression in the developing notochord. <i>Developmental Dynamics</i> , 1997, 209, 156-165.	1.8	52
30	Hedgehog-dependent proliferation drives modular growth during morphogenesis of a dermal bone. <i>Development</i> (Cambridge), 2012, 139, 2371-2380.	2.5	52
31	Morphing the hyomandibular skeleton in development and evolution. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007, 308B, 609-624.	1.3	49
32	Morpholino phenocopies of endothelin 1 (sucker) and other anterior arch class mutations. <i>Genesis</i> , 2001, 30, 186-187.	1.6	40
33	Linked morphological changes during palate evolution in early tetrapods. <i>Journal of Anatomy</i> , 2009, 215, 91-109.	1.5	37
34	Epigenetic regulation of hematopoiesis by DNA methylation. <i>ELife</i> , 2016, 5, e11813.	6.0	36
35	Directional sensitivity of the Mauthner cell system to vibrational stimulation in zebrafish larvae. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 1980, 140, 337-342.	1.6	35
36	INDEPENDENT AXES OF GENETIC VARIATION AND PARALLEL EVOLUTIONARY DIVERGENCE OF OPERCLE BONE SHAPE IN THREESPINE STICKLEBACK. <i>Evolution; International Journal of Organic Evolution</i> , 2012, 66, 419-434.	2.3	35

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37	Genetic Analysis of Chromosomal Rearrangements in the cyclops Region of the Zebrafish Genome. <i>Genetics</i> , 1998, 148, 373-380.	2.9	35
38	Pharyngeal morphogenesis requires <i>fras1</i> - <i>itga8</i> -dependent epithelial-mesenchymal interaction. <i>Developmental Biology</i> , 2016, 416, 136-148.	2.0	33
39	Ligament versus bone cell identity in the zebrafish hyoid skeleton is regulated by <i>mef2ca</i> . <i>Development (Cambridge)</i> , 2016, 143, 4430-4440.	2.5	31
40	Developmental dissociation in morphological evolution of the stickleback opercle. <i>Evolution &amp; Development</i> , 2012, 14, 326-337.	2.0	30
41	Role of <i>mef2ca</i> in developmental buffering of the zebrafish larval hyoid dermal skeleton. <i>Developmental Biology</i> , 2014, 385, 189-199.	2.0	29
42	Patterning in synaptic knobs which connect with Mauthner's cell ( <i>Ambystoma mexicanum</i> ). <i>Journal of Comparative Neurology</i> , 1974, 156, 49-79.	1.6	25
43	<i>fras1</i> shapes endodermal pouch 1 and stabilizes zebrafish pharyngeal skeletal development. <i>Development (Cambridge)</i> , 2012, 139, 2804-2813.	2.5	25
44	Synaptogenesis and its relation to growth of the postsynaptic cell: A quantitative study of the developing mauthner neuron of the axolotl. <i>Journal of Comparative Neurology</i> , 1982, 204, 364-376.	1.6	24
45	<i>edn1</i> and <i>hand2</i> Interact in Early Regulation of Pharyngeal Arch Outgrowth during Zebrafish Development. <i>PLoS ONE</i> , 2013, 8, e67522.	2.5	22
46	Association between integration structure and functional evolution in the opercular four-bar apparatus of the threespine stickleback, <i>Gasterosteus aculeatus</i> (Pisces: Gasterosteidae). <i>Biological Journal of the Linnean Society</i> , 2014, 111, 375-390.	1.6	18
47	The midline, oral ectoderm, and the arch-0 problem. <i>Integrative and Comparative Biology</i> , 2008, 48, 668-680.	2.0	15
48	<i>crabp</i> and <i>maf</i> highlight the novelty of the amphioxus club-shaped gland. <i>Acta Zoologica</i> , 2004, 85, 91-99.	0.8	10
49	Skull developmental modularity: a view from a single bone - or two. <i>Journal of Applied Ichthyology</i> , 2014, 30, 600-607.	0.7	10
50	Patterns of variation and covariation in the shapes of mandibular bones of juvenile salmonids in the genus <i>Oncorhynchus</i> . <i>Evolution &amp; Development</i> , 2015, 17, 302-314.	2.0	7
51	A rich diversity of opercle bone shape among teleost fishes. <i>PLoS ONE</i> , 2017, 12, e0188888.	2.5	6
52	Transgene-mediated skeletal phenotypic variation in zebrafish. <i>Journal of Fish Biology</i> , 2021, 98, 956-970.	1.6	5
53	Neural crest patterning and the evolution of the jaw. <i>Journal of Anatomy</i> , 2001, 199, 105-119.	1.5	5
54	Developmental tuning of mineralization drives morphological diversity of gill cover bones in sculpins and their relatives. <i>Evolution Letters</i> , 2019, 3, 374-391.	3.3	2

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55	An overview of Trink's scientific accomplishments. <i>Developmental Dynamics</i> , 2003, 228, 586-587.	1.8	0
56	Zebrafish sp7:EGFP: A transgenic for studying otic vesicle formation, skeletogenesis, and bone regeneration. <i>Genesis</i> , 2010, 48, spcone-spcone.	1.6	0
57	Imaging the cellular behaviors and interactions governing zebrafish palatogenesis. <i>FASEB Journal</i> , 2008, 22, 11.3.	0.5	0