

Robert N Kelsh

List of Publications by Year in descending order

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89
papers

6,525
citations

81743

39
h-index

69108

77
g-index

106
all docs

106
docs citations

106
times ranked

6030
citing authors

#	ARTICLE	IF	CITATIONS
1	Vertebrate genome evolution and the zebrafish gene map. <i>Nature Genetics</i> , 1998, 18, 345-349.	9.4	792
2	Zebrafish <i>colourless</i> encodes <i>sox10</i> and specifies non-ectomesenchymal neural crest fates. <i>Development (Cambridge)</i> , 2001, 128, 4113-4125.	1.2	449
3	In vivo time-lapse imaging shows dynamic oligodendrocyte progenitor behavior during zebrafish development. <i>Nature Neuroscience</i> , 2006, 9, 1506-1511.	7.1	353
4	A direct role for Sox10 in specification of neural crest-derived sensory neurons. <i>Development (Cambridge)</i> , 2006, 133, 4619-4630.	1.2	267
5	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
6	Genetics and Evolution of Pigment Patterns in Fish. <i>Pigment Cell & Melanoma Research</i> , 2004, 17, 326-336.	4.0	237
7	Sorting out Sox10 functions in neural crest development. <i>BioEssays</i> , 2006, 28, 788-798.	1.2	229
8	Mutational Analysis of Endothelin Receptor b1 (<i>rose</i>) during Neural Crest and Pigment Pattern Development in the Zebrafish <i>Danio rerio</i> . <i>Developmental Biology</i> , 2000, 227, 294-306.	0.9	209
9	Stripes and belly-spots – A review of pigment cell morphogenesis in vertebrates. <i>Seminars in Cell and Developmental Biology</i> , 2009, 20, 90-104.	2.3	180
10	Genetic Analysis of Melanophore Development in Zebrafish Embryos. <i>Developmental Biology</i> , 2000, 225, 277-293.	0.9	168
11	Mutations affecting pigmentation and shape of the adult zebrafish. <i>Development Genes and Evolution</i> , 1996, 206, 260-276.	0.4	164
12	Clarification of mural cell coverage of vascular endothelial cells by live imaging of zebrafish. <i>Development (Cambridge)</i> , 2016, 143, 1328-39.	1.2	163
13	Transcriptional regulation of <i>mitfa</i> accounts for the <i>sox10</i> requirement in zebrafish melanophore development. <i>Development (Cambridge)</i> , 2003, 130, 2809-2818.	1.2	151
14	Leukocyte Tyrosine Kinase Functions in Pigment Cell Development. <i>PLoS Genetics</i> , 2008, 4, e1000026.	1.5	137
15	<i>Phox2b</i> function in the enteric nervous system is conserved in zebrafish and is <i>sox10</i> -dependent. <i>Mechanisms of Development</i> , 2005, 122, 659-669.	1.7	126
16	The origin and evolution of the neural crest. <i>BioEssays</i> , 2008, 30, 530-541.	1.2	124
17	Roles for GFR α 1 receptors in zebrafish enteric nervous system development. <i>Development (Cambridge)</i> , 2004, 131, 241-249.	1.2	109
18	Homeotic gene expression in the locust <i>Schistocerca</i> : An antibody that detects conserved epitopes in ultrabithorax and abdominal-A proteins. <i>Genesis</i> , 1994, 15, 19-31.	3.1	107

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19	What is a vertebrate pigment cell?. <i>Pigment Cell and Melanoma Research</i> , 2016, 29, 8-14.	1.5	106
20	Mutations in C10orf11, a Melanocyte-Differentiation Gene, Cause Autosomal-Recessive Albinism. <i>American Journal of Human Genetics</i> , 2013, 92, 415-421.	2.6	103
21	Expression of zebrafish <i>fkf6</i> in neural crest-derived glia. <i>Mechanisms of Development</i> , 2000, 93, 161-164.	1.7	99
22	An evolutionarily conserved intronic region controls the spatiotemporal expression of the transcription factor <i>Sox10</i> . <i>BMC Developmental Biology</i> , 2008, 8, 105.	2.1	99
23	The proliferating field of neural crest stem cells. <i>Developmental Dynamics</i> , 2007, 236, 3242-3254.	0.8	89
24	Osteocalcin and matrix Gla protein in zebrafish (<i>Danio rerio</i>) and Senegal sole (<i>Solea senegalensis</i>): Comparative gene and protein expression during larval development through adulthood. <i>Gene Expression Patterns</i> , 2006, 6, 637-652.	0.3	84
25	The emergence of ectomesenchyme. <i>Developmental Dynamics</i> , 2008, 237, 592-601.	0.8	79
26	The Tomita collection of medaka pigmentation mutants as a resource for understanding neural crest cell development. <i>Mechanisms of Development</i> , 2004, 121, 841-859.	1.7	77
27	Deletion of long-range sequences at <i>Sox10</i> compromises developmental expression in a mouse model of Waardenburg's "Shah (WS4) syndrome. <i>Human Molecular Genetics</i> , 2006, 15, 259-271.	1.4	60
28	Small molecule screening identifies targetable zebrafish pigmentation pathways. <i>Pigment Cell and Melanoma Research</i> , 2012, 25, 131-143.	1.5	60
29	<i>Sdf1a</i> patterns zebrafish melanophores and links the somite and melanophore pattern defects in choker mutants. <i>Development (Cambridge)</i> , 2007, 134, 1011-1022.	1.2	59
30	An Iterative Genetic and Dynamical Modelling Approach Identifies Novel Features of the Gene Regulatory Network Underlying Melanocyte Development. <i>PLoS Genetics</i> , 2011, 7, e1002265.	1.5	59
31	Anaplastic Lymphoma Kinase Is Required for Neurogenesis in the Developing Central Nervous System of Zebrafish. <i>PLoS ONE</i> , 2013, 8, e63757.	1.1	59
32	Chemical genetics suggests a critical role for lysyl oxidase in zebrafish notochord morphogenesis. <i>Molecular BioSystems</i> , 2007, 3, 51-59.	2.9	58
33	<i>Sox5</i> Functions as a Fate Switch in Medaka Pigment Cell Development. <i>PLoS Genetics</i> , 2014, 10, e1004246.	1.5	55
34	Pigment patterns in adult fish result from superimposition of two largely independent pigmentation mechanisms. <i>Pigment Cell and Melanoma Research</i> , 2015, 28, 196-209.	1.5	55
35	Pigment pattern formation in the medaka embryo. <i>Pigment Cell & Melanoma Research</i> , 2005, 18, 64-73.	4.0	51
36	Distinct interactions of <i>Sox5</i> and <i>Sox10</i> in fate specification of pigment cells in medaka and zebrafish. <i>PLoS Genetics</i> , 2018, 14, e1007260.	1.5	51

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37	A morpholino phenocopy of the colourless mutant. <i>Genesis</i> , 2001, 30, 188-189.	0.8	50
38	A zebrafish model for Waardenburg syndrome type IV reveals diverse roles for Sox10 in the otic vesicle. <i>DMM Disease Models and Mechanisms</i> , 2009, 2, 68-83.	1.2	48
39	Countershading in zebrafish results from an <i>Asip1</i> controlled dorsoventral gradient of pigment cell differentiation. <i>Scientific Reports</i> , 2019, 9, 3449.	1.6	45
40	Differentiated melanocyte cell division occurs in vivo and is promoted by mutations in <i>Mitf</i> . <i>Development (Cambridge)</i> , 2011, 138, 3579-3589.	1.2	44
41	A systems biology approach uncovers the core gene regulatory network governing iridophore fate choice from the neural crest. <i>PLoS Genetics</i> , 2018, 14, e1007402.	1.5	44
42	A novel transgenic line using the Cre ^{ERT2} system to allow permanent lineage labeling of the zebrafish neural crest. <i>Genesis</i> , 2012, 50, 750-757.	0.8	39
43	Enteric glia as a source of neural progenitors in adult zebrafish. <i>ELife</i> , 2020, 9, .	2.8	39
44	Regulation of neural crest cell fate by the retinoic acid and <i>Pparg</i> signalling pathways. <i>Development (Cambridge)</i> , 2010, 137, 389-394.	1.2	38
45	A quantitative modelling approach to zebrafish pigment pattern formation. <i>ELife</i> , 2020, 9, .	2.8	35
46	A Systematic Survey of Expression and Function of Zebrafish <i>frizzled</i> Genes. <i>PLoS ONE</i> , 2013, 8, e54833.	1.1	32
47	Loss of function mutations in the melanocortin 1 receptor cause disruption of dorsoventral countershading in teleost fish. <i>Pigment Cell and Melanoma Research</i> , 2019, 32, 817-828.	1.5	31
48	The MITF paralog <i>tfec</i> is required in neural crest development for fate specification of the iridophore lineage from a multipotent pigment cell progenitor. <i>PLoS ONE</i> , 2021, 16, e0244794.	1.1	30
49	Thyroid Hormones Regulate Zebrafish Melanogenesis in a Gender-Specific Manner. <i>PLoS ONE</i> , 2016, 11, e0166152.	1.1	30
50	Specification of Zebrafish Neural Crest. <i>Results and Problems in Cell Differentiation</i> , 2002, 40, 216-236.	0.2	29
51	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
52	Sox10 contributes to the balance of fate choice in dorsal root ganglion progenitors. <i>PLoS ONE</i> , 2017, 12, e0172947.	1.1	24
53	Deciphering the cellular and molecular roles of cellular nucleic acid binding protein during cranial neural crest development. <i>Development Growth and Differentiation</i> , 2011, 53, 934-947.	0.6	22
54	Endothelin neurotransmitter signalling controls zebrafish social behaviour. <i>Scientific Reports</i> , 2019, 9, 3040.	1.6	22

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55	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. <i>PLoS Genetics</i> , 2019, 15, e1007941.	1.5	22
56	Identification of a Promoter Element within the Zebrafish <i>colX1</i> Gene Responsive to Runx2 Isoforms <i>Osf2/Cbfa1</i> and <i>til-1</i> but not to <i>pebp2A2</i> . <i>Calcified Tissue International</i> , 2006, 79, 230-244.	1.5	20
57	Functional nasal morphology of chimaerid fishes. <i>Journal of Morphology</i> , 2013, 274, 987-1009.	0.6	20
58	Cyclical fate restriction: a new view of neural crest cell fate specification. <i>Development (Cambridge)</i> , 2021, 148, .	1.2	20
59	A Nervous Origin for Fish Stripes. <i>PLoS Genetics</i> , 2011, 7, e1002081.	1.5	19
60	Functional constraints on SoxE proteins in neural crest development: The importance of differential expression for evolution of protein activity. <i>Developmental Biology</i> , 2016, 418, 166-178.	0.9	17
61	Geographic variation in breeding system and environment predicts melanin-based plumage ornamentation of male and female Kentish plovers. <i>Behavioral Ecology and Sociobiology</i> , 2016, 70, 49-60.	0.6	17
62	Identification of a New <i>pebp2A2</i> Isoform From Zebrafish <i>runx2</i> Capable of Inducing Osteocalcin Gene Expression In Vitro. <i>Journal of Bone and Mineral Research</i> , 2005, 20, 1440-1453.	3.1	16
63	The INT6 Cancer Gene and MEK Signaling Pathways Converge during Zebrafish Development. <i>PLoS ONE</i> , 2007, 2, e959.	1.1	16
64	A Simple, Highly Visual <i>in Vivo</i> Screen for Anaplastic Lymphoma Kinase Inhibitors. <i>ACS Chemical Biology</i> , 2012, 7, 1968-1974.	1.6	16
65	Neural Crest Cells and Pigmentation. , 2014, , 287-311.		14
66	Notch controls the cell cycle to define leader versus follower identities during collective cell migration. <i>ELife</i> , 2022, 11, .	2.8	14
67	Zebrafish adult pigment stem cells are multipotent and form pigment cells by a progressive fate restriction process. <i>BioEssays</i> , 2017, 39, 1600234.	1.2	12
68	<i>Dicer1</i> is required for pigment cell and craniofacial development in zebrafish. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2019, 1862, 472-485.	0.9	12
69	A structural variant in the 5' flanking region of the <i>TWIST2</i> gene affects melanocyte development in belted cattle. <i>PLoS ONE</i> , 2017, 12, e0180170.	1.1	12
70	Review: The Role of Wnt/ β -Catenin Signalling in Neural Crest Development in Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 782445.	1.8	12
71	Dual transcriptional regulation by <i>runx2</i> of matrix Gla protein in <i>Xenopus laevis</i> . <i>Gene</i> , 2010, 450, 94-102.	1.0	9
72	Do you have to be albino to be albino?. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 325-326.	1.5	9

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73	EuFishBioMed (COST Action BM0804): A European Network to Promote the Use of Small Fishes in Biomedical Research. <i>Zebrafish</i> , 2012, 9, 90-93.	0.5	7
74	Melanoma in mankind's best friend. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 1-1.	1.5	7
75	A suitable anaesthetic protocol for metamorphic zebrafish. <i>PLoS ONE</i> , 2021, 16, e0246504.	1.1	7
76	Pigment Cell Development in Teleosts. , 2021, , 209-246.		6
77	Novel generic models for differentiating stem cells reveal oscillatory mechanisms. <i>Journal of the Royal Society Interface</i> , 2021, 18, 20210442.	1.5	6
78	Contribution of <i>sox9b</i> to pigment cell formation in medaka fish. <i>Development Growth and Differentiation</i> , 2021, 63, 516-522.	0.6	5
79	Why should biomedical scientists care about biodiversity?. <i>Current Biology</i> , 2011, 21, R210-R211.	1.8	4
80	Taste buds are not derived from neural crest in mouse, chicken, and zebrafish. <i>Developmental Biology</i> , 2021, 471, 76-88.	0.9	4
81	A golden clue to human skin colour variation. <i>BioEssays</i> , 2006, 28, 578-582.	1.2	3
82	Pigment Patterning in Teleosts. , 2021, , 247-292.		3
83	Cell Fate Decisions in the Neural Crest, from Pigment Cell to Neural Development. <i>International Journal of Molecular Sciences</i> , 2021, 22, 13531.	1.8	3
84	Trunk Neural Crest Migratory Position and Asymmetric Division Predict Terminal Differentiation. <i>Frontiers in Cell and Developmental Biology</i> , 0, 10, .	1.8	2
85	A pigment evolution Kitlg. <i>Pigment Cell and Melanoma Research</i> , 2008, 21, 113-114.	1.5	1
86	Gnawing at striping – how rodents evolve striped patterns. <i>Pigment Cell and Melanoma Research</i> , 2017, 30, 181-182.	1.5	1
87	Spotting a role for an Ig superfamily cell adhesion molecule in pigment pattern formation. <i>Pigment Cell and Melanoma Research</i> , 2013, 26, 161-162.	1.5	0
88	Taking striping up a notch. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 688-689.	1.5	0
89	Reflecting on the iridophore transcriptome, and more. <i>Pigment Cell and Melanoma Research</i> , 2014, 27, 2-3.	1.5	0