Robert N Kelsh

List of Publications by Year
in descending order

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Version: 2024-02-01

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	Notch controls the cell cycle to define leader versus follower identities during collective cell migration. ELife, 2022, 11, .	2.8	14
2	Taste buds are not derived from neural crest in mouse, chicken, and zebrafish. Developmental Biology, 2021, 471, 76-88.	0.9	4
3	Pigment Cell Development in Teleosts. , 2021, , 209-246.		6
4	Pigment Patterning in Teleosts. , 2021, , 247-292.		3
5	The MITF paralog tfec is required in neural crest development for fate specification of the iridophore lineage from a multipotent pigment cell progenitor. PLoS ONE, 2021, 16, e0244794.	1.1	30
6	A suitable anaesthetic protocol for metamorphic zebrafish. PLoS ONE, 2021, 16, e0246504.	1.1	7
7	Novel generic models for differentiating stem cells reveal oscillatory mechanisms. Journal of the Royal Society Interface, 2021, 18, 20210442.	1.5	6
8	Contribution of sox9b to pigment cell formation in medaka fish. Development Growth and Differentiation, 2021, 63, 516-522.	0.6	5
9	Review: The Role of Wnt/Î²-Catenin Signalling in Neural Crest Development in Zebrafish. Frontiers in Cell and Developmental Biology, 2021, 9, 782445.	1.8	12
10	Cyclical fate restriction: a new view of neural crest cell fate specification. Development (Cambridge), 2021, 148, .	1.2	20
11	Cell Fate Decisions in the Neural Crest, from Pigment Cell to Neural Development. International Journal of Molecular Sciences, 2021, 22, 13531.	1.8	3
12	A quantitative modelling approach to zebrafish pigment pattern formation. ELife, 2020, 9, .	2.8	35
13	Enteric glia as a source of neural progenitors in adult zebrafish. ELife, 2020, 9, .	2.8	39
14	Lossâ€ofâ€function mutations in the melanocortin 1 receptor cause disruption of dorsoâ€ventral countershading in teleost fish. Pigment Cell and Melanoma Research, 2019, 32, 817-828.	1.5	31
15	Dicer1 is required for pigment cell and craniofacial development in zebrafish. Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms, 2019, 1862, 472-485.	0.9	12
16	Endothelin neurotransmitter signalling controls zebrafish social behaviour. Scientific Reports, 2019, 9, 3040.	1.6	22
17	Endothelin receptor Aa regulates proliferation and differentiation of Erb-dependent pigment progenitors in zebrafish. PLoS Genetics, 2019, 15, e1007941.	1.5	22
18	Countershading in zebrafish results from an Asip1 controlled dorsoventral gradient of pigment cell differentiation. Scientific Reports, 2019, 9, 3449.	1.6	45

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19	A systems biology approach uncovers the core gene regulatory network governing iridophore fate choice from the neural crest. PLoS Genetics, 2018, 14, e1007402.	1.5	44
20	Distinct interactions of Sox5 and Sox10 in fate specification of pigment cells in medaka and zebrafish. PLoS Genetics, 2018, 14, e1007260.	1.5	51
21	Gnawing at striping â€“ how rodents evolve striped patterns. Pigment Cell and Melanoma Research, 2017, 30, 181-182.	1.5	1
22	Zebrafish adult pigment stem cells are multipotent and form pigment cells by a progressive fate restriction process. BioEssays, 2017, 39, 1600234.	1.2	12
23	An ongoing role for Wnt signaling in differentiating melanocytes inÂvivo. Pigment Cell and Melanoma Research, 2017, 30, 219-232.	1.5	28
24	Sox10 contributes to the balance of fate choice in dorsal root ganglion progenitors. PLoS ONE, 2017, 12, e0172947.	1.1	24
25	A structural variant in the 5â€™-flanking region of the TWIST2 gene affects melanocyte development in belted cattle. PLoS ONE, 2017, 12, e0180170.	1.1	12
26	What is a vertebrate pigment cell?. Pigment Cell and Melanoma Research, 2016, 29, 8-14.	1.5	106
27	Functional constraints on SoxE proteins in neural crest development: The importance of differential expression for evolution of protein activity. Developmental Biology, 2016, 418, 166-178.	0.9	17
28	Geographic variation in breeding system and environment predicts melanin-based plumage ornamentation of male and female Kentish plovers. Behavioral Ecology and Sociobiology, 2016, 70, 49-60.	0.6	17
29	Clarification of mural cell coverage of vascular endothelial cells by live imaging of zebrafish. Development (Cambridge), 2016, 143, 1328-39.	1.2	163
30	Thyroid Hormones Regulate Zebrafish Melanogenesis in a Gender-Specific Manner. PLoS ONE, 2016, 11, e0166152.	1.1	30
31	Pigment patterns in adult fish result from superimposition of two largely independent pigmentation mechanisms. Pigment Cell and Melanoma Research, 2015, 28, 196-209.	1.5	55
32	Neural Crest Cells and Pigmentation. , 2014, , 287-311.		14
33	Sox5 Functions as a Fate Switch in Medaka Pigment Cell Development. PLoS Genetics, 2014, 10, e1004246.	1.5	55
34	Melanoma in mankind's best friend. Pigment Cell and Melanoma Research, 2014, 27, 1-1.	1.5	7
35	Do you have to be albino to be albino?. Pigment Cell and Melanoma Research, 2014, 27, 325-326.	1.5	9
36	Taking striping up a notch. Pigment Cell and Melanoma Research, 2014, 27, 688-689.	1.5	0

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37	Reflecting on the iridophore transcriptome, and more. Pigment Cell and Melanoma Research, 2014, 27, 2-3.	1.5	0
38	Mutations in C10orf11, a Melanocyte-Differentiation Gene, Cause Autosomal-Recessive Albinism. American Journal of Human Genetics, 2013, 92, 415-421.	2.6	103
39	Spotting a role for an Ig superfamily cell adhesion molecule in pigment pattern formation. Pigment Cell and Melanoma Research, 2013, 26, 161-162.	1.5	0
40	Functional nasal morphology of chimaerid fishes. Journal of Morphology, 2013, 274, 987-1009.	0.6	20
41	A Systematic Survey of Expression and Function of Zebrafish frizzled Genes. PLoS ONE, 2013, 8, e54833.	1.1	32
42	Anaplastic Lymphoma Kinase Is Required for Neurogenesis in the Developing Central Nervous System of Zebrafish. PLoS ONE, 2013, 8, e63757.	1.1	59
43	A Simple, Highly Visual in Vivo Screen for Anaplastic Lymphoma Kinase Inhibitors. ACS Chemical Biology, 2012, 7, 1968-1974.	1.6	16
44	Small molecule screening identifies targetable zebrafish pigmentation pathways. Pigment Cell and Melanoma Research, 2012, 25, 131-143.	1.5	60
45	EuFishBioMed (COST Action BM0804): A European Network to Promote the Use of Small Fishes in Biomedical Research. Zebrafish, 2012, 9, 90-93.	0.5	7
46	A novel transgenic line using the Creâ€“lox system to allow permanent lineageâ€labeling of the zebrafish neural crest. Genesis, 2012, 50, 750-757.	0.8	39
47	Deciphering the cellular and molecular roles of cellular nucleic acid binding protein during cranial neural crest development. Development Growth and Differentiation, 2011, 53, 934-947.	0.6	22
48	Why should biomedical scientists care about biodiversity?. Current Biology, 2011, 21, R210-R211.	1.8	4
49	An Iterative Genetic and Dynamical Modelling Approach Identifies Novel Features of the Gene Regulatory Network Underlying Melanocyte Development. PLoS Genetics, 2011, 7, e1002265.	1.5	59
50	Differentiated melanocyte cell division occurs in vivo and is promoted by mutations in Mitf. Development (Cambridge), 2011, 138, 3579-3589.	1.2	44
51	A Nervous Origin for Fish Stripes. PLoS Genetics, 2011, 7, e1002081.	1.5	19
52	Regulation of neural crest cell fate by the retinoic acid and Pparg signalling pathways. Development (Cambridge), 2010, 137, 389-394.	1.2	38
53	Dual transcriptional regulation by runx2 of matrix Gla protein in Xenopus laevis. Gene, 2010, 450, 94-102.	1.0	9
54	A zebrafish model for Waardenburg syndrome type IV reveals diverse roles for Sox10 in the otic vesicle. DMM Disease Models and Mechanisms, 2009, 2, 68-83.	1.2	48

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55	Stripes and belly-spotsâ€”A review of pigment cell morphogenesis in vertebrates. Seminars in Cell and Developmental Biology, 2009, 20, 90-104.	2.3	180
56	An evolutionarily conserved intronic region controls the spatiotemporal expression of the transcription factor Sox10. BMC Developmental Biology, 2008, 8, 105.	2.1	99
57	The emergence of ectomesenchyme. Developmental Dynamics, 2008, 237, 592-601.	0.8	79
58	The origin and evolution of the neural crest. BioEssays, 2008, 30, 530-541.	1.2	124
59	Leukocyte Tyrosine Kinase Functions in Pigment Cell Development. PLoS Genetics, 2008, 4, e1000026.	1.5	137
60	A pigment evolution Kitlg. Pigment Cell and Melanoma Research, 2008, 21, 113-114.	1.5	1
61	Sdf1a patterns zebrafish melanophores and links the somite and melanophore pattern defects in choker mutants. Development (Cambridge), 2007, 134, 1011-1022.	1.2	59
62	Chemical genetics suggests a critical role for lysyl oxidase in zebrafish notochord morphogenesis. Molecular BioSystems, 2007, 3, 51-59.	2.9	58
63	The INT6 Cancer Gene and MEK Signaling Pathways Converge during Zebrafish Development. PLoS ONE, 2007, 2, e959.	1.1	16
64	The proliferating field of neural crest stem cells. Developmental Dynamics, 2007, 236, 3242-3254.	0.8	89
65	Deletion of long-range sequences at Sox10 compromises developmental expression in a mouse model of Waardenburgâ€“Shah (WS4) syndrome. Human Molecular Genetics, 2006, 15, 259-271.	1.4	60
66	In vivo time-lapse imaging shows dynamic oligodendrocyte progenitor behavior during zebrafish development. Nature Neuroscience, 2006, 9, 1506-1511.	7.1	353
67	Identification of a Promoter Element within the Zebrafish colXÎ±1 Gene Responsive to Runx2 Isoforms Osf2/Cbfa1 and til-1 but not to pebp2Î±A2. Calcified Tissue International, 2006, 79, 230-244.	1.5	20
68	Osteocalcin and matrix Gla protein in zebrafish (Danio rerio) and Senegal sole (Solea senegalensis): Comparative gene and protein expression during larval development through adulthood. Gene Expression Patterns, 2006, 6, 637-652.	0.3	84
69	Agolden clue to human skin colour variation. BioEssays, 2006, 28, 578-582.	1.2	3
70	Sorting outSox10 functions in neural crest development. BioEssays, 2006, 28, 788-798.	1.2	229
71	A direct role for Sox10 in specification of neural crest-derived sensory neurons. Development (Cambridge), 2006, 133, 4619-4630.	1.2	267
72	Identification of a New pebp2Î±A2 Isoform From Zebrafishrunx2Capable of Inducing Osteocalcin Gene Expression In Vitro. Journal of Bone and Mineral Research, 2005, 20, 1440-1453.	3.1	16

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73	Pigment pattern formation in the medaka embryo. Pigment Cell & Melanoma Research, 2005, 18, 64-73.	4.0	51
74	Hedgehog signaling is required for cranial neural crest morphogenesis and chondrogenesis at the midline in the zebrafish skull. Development (Cambridge), 2005, 132, 3977-3988.	1.2	265
75	Phox2b function in the enteric nervous system is conserved in zebrafish and is sox10-dependent. Mechanisms of Development, 2005, 122, 659-669.	1.7	126
76	Roles for GFRÎ±1 receptors in zebrafish enteric nervous system development. Development (Cambridge), 2004, 131, 241-249.	1.2	109
77	Genetics and Evolution of Pigment Patterns in Fish. Pigment Cell & Melanoma Research, 2004, 17, 326-336.	4.0	237
78	The Tomita collection of medaka pigmentation mutants as a resource for understanding neural crest cell development. Mechanisms of Development, 2004, 121, 841-859.	1.7	77
79	Transcriptional regulation of mitfa accounts for the sox10 requirement in zebrafish melanophore development. Development (Cambridge), 2003, 130, 2809-2818.	1.2	151
80	Specification of Zebrafish Neural Crest. Results and Problems in Cell Differentiation, 2002, 40, 216-236.	0.2	29
81	A morpholino phenocopy of thecolourless mutant. Genesis, 2001, 30, 188-189.	0.8	50
82	Zebrafishcolourlessencodessox10and specifies non-ectomesenchymal neural crest fates. Development (Cambridge), 2001, 128, 4113-4125.	1.2	449
83	Genetic Analysis of Melanophore Development in Zebrafish Embryos. Developmental Biology, 2000, 225, 277-293.	0.9	168
84	Mutational Analysis of Endothelin Receptor b1 (rose) during Neural Crest and Pigment Pattern Development in the Zebrafish Danio rerio. Developmental Biology, 2000, 227, 294-306.	0.9	209
85	Expression of zebrafish fkd6 in neural crest-derived glia. Mechanisms of Development, 2000, 93, 161-164.	1.7	99
86	Vertebrate genome evolution and the zebrafish gene map. Nature Genetics, 1998, 18, 345-349.	9.4	792
87	Mutations affecting pigmentation and shape of the adult zebrafish. Development Genes and Evolution, 1996, 206, 260-276.	0.4	164
88	Homeotic gene expression in the locustSchistocerca: An antibody that detects conserved epitopes in ultrabithorax and abdominal-A proteins. Genesis, 1994, 15, 19-31.	3.1	107
89	Trunk Neural Crest Migratory Position and Asymmetric Division Predict Terminal Differentiation. Frontiers in Cell and Developmental Biology, 0, 10, .	1.8	2