

Koichi Kawakami

List of Publications by Year in descending order

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119
papers

8,874
citations

57758

44
h-index

49909

87
g-index

140
all docs

140
docs citations

140
times ranked

9303
citing authors

#	ARTICLE	IF	CITATIONS
1	A novel gene trap line for visualization and manipulation of <i>erbb3b+</i> neural crest and glial cells in zebrafish. <i>Developmental Biology</i> , 2022, 482, 114-123.	2.0	7
2	Optogenetic Phase Transition of TDP-43 in Spinal Motor Neurons of Zebrafish Larvae. <i>Journal of Visualized Experiments</i> , 2022, , .	0.3	0
3	Innervation modulates the functional connectivity between pancreatic endocrine cells. <i>ELife</i> , 2022, 11, .	6.0	11
4	Developmental independence of median fins from the larval fin fold revises their evolutionary origin. <i>Scientific Reports</i> , 2022, 12, 7521.	3.3	1
5	KCNJ8/ABCC9-containing K-ATP channel modulates brain vascular smooth muscle development and neurovascular coupling. <i>Developmental Cell</i> , 2022, 57, 1383-1399.e7.	7.0	16
6	Integrated Behavioral, Genetic and Brain Circuit Visualization Methods to Unravel Functional Anatomy of Zebrafish Amygdala. <i>Frontiers in Neuroanatomy</i> , 2022, 16, .	1.7	4
7	Do not curse the darkness of the spinal cord, light TDP-43. <i>Neural Regeneration Research</i> , 2021, 16, 986.	3.0	0
8	Pyramidal Neurons of the Zebrafish Tectum Receive Highly Convergent Input From Torus Longitudinalis. <i>Frontiers in Neuroanatomy</i> , 2021, 15, 636683.	1.7	14
9	Multi-phaseted problems of TDP-43 in selective neuronal vulnerability in ALS. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 4453-4465.	5.4	6
10	Neural circuitry for stimulus selection in the zebrafish visual system. <i>Neuron</i> , 2021, 109, 805-822.e6.	8.1	40
11	Illuminating ALS Motor Neurons With Optogenetics in Zebrafish. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 640414.	3.7	5
12	Haploinsufficiency of PRR12 causes a spectrum of neurodevelopmental, eye, and multisystem abnormalities. <i>Genetics in Medicine</i> , 2021, 23, 1234-1245.	2.4	6
13	Involvement of Cerebellar Neural Circuits in Active Avoidance Conditioning in Zebrafish. <i>ENeuro</i> , 2021, 8, ENEURO.0507-20.2021.	1.9	8
14	Enteric nervous system can regenerate in zebrafish larva via migration into the ablated area and proliferation of neural crest-derived cells. <i>Development (Cambridge)</i> , 2021, 148, .	2.5	4
15	Electrophysiological and pharmacological characterization of spreading depolarization in the adult zebrafish tectum. <i>Journal of Neurophysiology</i> , 2021, 126, 1934-1942.	1.8	2
16	Development of the anterior lateral line system through local tissue-tissue interactions in the zebrafish head. <i>Developmental Dynamics</i> , 2020, 249, 1440-1454.	1.8	7
17	Neuronal Circuits That Control Rhythmic Pectoral Fin Movements in Zebrafish. <i>Journal of Neuroscience</i> , 2020, 40, 6678-6690.	3.6	18
18	Proteasome subunit <i>PSMC3</i> variants cause neurosensory syndrome combining deafness and cataract due to proteotoxic stress. <i>EMBO Molecular Medicine</i> , 2020, 12, e11861.	6.9	43

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19	Gsx2 is required for specification of neurons in the inferior olivary nuclei from Ptf1a-expressing neural progenitors in zebrafish. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	9
20	Transient and lineage-restricted requirement of Ebf3 for sternum ossification. <i>Development (Cambridge)</i> , 2020, 147, .	2.5	6
21	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. <i>Current Biology</i> , 2020, 30, 2260-2274.e6.	3.9	52
22	Gastrointestinal Neurons Expressing HCN4 Regulate Retrograde Peristalsis. <i>Cell Reports</i> , 2020, 30, 2879-2888.e3.	6.4	14
23	A virtual reality system to analyze neural activity and behavior in adult zebrafish. <i>Nature Methods</i> , 2020, 17, 343-351.	19.0	53
24	Optogenetic modulation of TDP-43 oligomerization accelerates ALS-related pathologies in the spinal motor neurons. <i>Nature Communications</i> , 2020, 11, 1004.	12.8	59
25	Chondroitin sulfate proteoglycan 4 regulates zebrafish body axis organization via Wnt/planar cell polarity pathway. <i>PLoS ONE</i> , 2020, 15, e0230943.	2.5	5
26	Zebrafish can regenerate endoskeleton in larval pectoral fin but the regenerative ability declines. <i>Developmental Biology</i> , 2020, 463, 110-123.	2.0	11
27	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. <i>Aging</i> , 2020, 12, 18603-18621.	3.1	5
28	Non-thalamic origin of zebrafish sensory nuclei implies convergent evolution of visual pathways in amniotes and teleosts. <i>ELife</i> , 2020, 9, .	6.0	27
29	Shootins mediate collective cell migration and organogenesis of the zebrafish posterior lateral line system. <i>Scientific Reports</i> , 2019, 9, 12156.	3.3	6
30	Neural signatures of sleep in zebrafish. <i>Nature</i> , 2019, 571, 198-204.	27.8	114
31	De novo assembly of the goldfish (<i>Carassius auratus</i>) genome and the evolution of genes after whole-genome duplication. <i>Science Advances</i> , 2019, 5, eaav0547.	10.3	182
32	Pattern of fin rays along the antero-posterior axis based on their connection to distal radials. <i>Zoological Letters</i> , 2019, 5, 30.	1.3	7
33	Glia-neuron interactions underlie state transitions to generalized seizures. <i>Nature Communications</i> , 2019, 10, 3830.	12.8	98
34	The First International Zebrafish Conference/Workshop in Qatar. <i>Zebrafish</i> , 2019, 16, 493-495.	1.1	1
35	Mutant <i>KCNJ3</i> and <i>KCNJ5</i> Potassium Channels as Novel Molecular Targets in Bradyarrhythmias and Atrial Fibrillation. <i>Circulation</i> , 2019, 139, 2157-2169.	1.6	51
36	Six6 and Six7 coordinately regulate expression of middle-wavelength opsins in zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 4651-4660.	7.1	29

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37	Reactivation of Notch signaling is required for cardiac valve regeneration. <i>Scientific Reports</i> , 2019, 9, 16059.	3.3	17
38	A bidirectional network for appetite control in larval zebrafish. <i>ELife</i> , 2019, 8, .	6.0	50
39	Identification of a neuronal population in the telencephalon essential for fear conditioning in zebrafish. <i>BMC Biology</i> , 2018, 16, 45.	3.8	111
40	Epidermal regulation of bone morphogenesis through the development and regeneration of osteoblasts in the zebrafish scale. <i>Developmental Biology</i> , 2018, 437, 105-119.	2.0	59
41	A novel zebrafish intestinal tumor model reveals a role for <i>cyp7a1</i> -dependent tumor-liver crosstalk in tumor's adverse effects on host. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	29
42	A tRNA-based multiplex sgRNA expression system in zebrafish and its application to generation of transgenic albino fish. <i>Scientific Reports</i> , 2018, 8, 13366.	3.3	26
43	Wilms Tumor 1b defines a wound-specific sheath cell subpopulation associated with notochord repair. <i>ELife</i> , 2018, 7, .	6.0	21
44	A new mode of pancreatic islet innervation revealed by live imaging in zebrafish. <i>ELife</i> , 2018, 7, .	6.0	20
45	Structure/Function Studies of the $\hat{\pm}4$ Subunit Reveal Evolutionary Loss of a GlyR Subtype Involved in Startle and Escape Responses. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 23.	2.9	16
46	Protocadherin-Mediated Cell Repulsion Controls the Central Topography and Efferent Projections of the Abducens Nucleus. <i>Cell Reports</i> , 2018, 24, 1562-1572.	6.4	23
47	Ablation of a Neuronal Population Using a Two-photon Laser and Its Assessment Using Calcium Imaging and Behavioral Recording in Zebrafish Larvae. <i>Journal of Visualized Experiments</i> , 2018, , .	0.3	6
48	Glycine-alanine dipeptide repeat protein contributes to toxicity in a zebrafish model of C9orf72 associated neurodegeneration. <i>Molecular Neurodegeneration</i> , 2017, 12, 6.	10.8	57
49	Proteolysis regulates cardiomyocyte maturation and tissue integration. <i>Nature Communications</i> , 2017, 8, 14495.	12.8	27
50	Left Habenula Mediates Light-Preference Behavior in Zebrafish via an Asymmetrical Visual Pathway. <i>Neuron</i> , 2017, 93, 914-928.e4.	8.1	96
51	Activation of the hypothalamic feeding centre upon visual prey detection. <i>Nature Communications</i> , 2017, 8, 15029.	12.8	98
52	Motile-Cilia-Mediated Flow Improves Sensitivity and Temporal Resolution of Olfactory Computations. <i>Current Biology</i> , 2017, 27, 166-174.	3.9	74
53	Granule cells control recovery from classical conditioned fear responses in the zebrafish cerebellum. <i>Scientific Reports</i> , 2017, 7, 11865.	3.3	30
54	Transposons As Tools for Functional Genomics in Vertebrate Models. <i>Trends in Genetics</i> , 2017, 33, 784-801.	6.7	64

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55	Preface to Vertebrate Brains: evolution, structures and functions. <i>Development Growth and Differentiation</i> , 2017, 59, 160-162.	1.5	0
56	Transient inflammatory response mediated by interleukin-1 β is required for proper regeneration in zebrafish fin fold. <i>ELife</i> , 2017, 6, .	6.0	112
57	Activin-A enhances mTOR signaling to promote aberrant chondrogenesis in fibrodysplasia ossificans progressiva. <i>Journal of Clinical Investigation</i> , 2017, 127, 3339-3352.	8.2	126
58	Analysis of transcription factors expressed at the anterior mouse limb bud. <i>PLoS ONE</i> , 2017, 12, e0175673.	2.5	13
59	A novel perivascular cell population in the zebrafish brain. <i>ELife</i> , 2017, 6, .	6.0	77
60	A Novel Zebrafish ret Heterozygous Model of Hirschsprung Disease Identifies a Functional Role for mapk10 as a Modifier of Enteric Nervous System Phenotype Severity. <i>PLoS Genetics</i> , 2016, 12, e1006439.	3.5	40
61	Zebrafish lines expressing UAS-driven red probes for monitoring cytoskeletal dynamics. <i>Genesis</i> , 2016, 54, 483-489.	1.6	4
62	Visualization of Neuregulin 1 ectodomain shedding reveals its local processing in vitro and in vivo. <i>Scientific Reports</i> , 2016, 6, 28873.	3.3	12
63	Calcium dysregulation contributes to neurodegeneration in FTLD patient iPSC-derived neurons. <i>Scientific Reports</i> , 2016, 6, 34904.	3.3	67
64	Cellular dynamics of regeneration reveals role of two distinct Pax7 stem cell populations in larval zebrafish muscle repair. <i>DMM Disease Models and Mechanisms</i> , 2016, 9, 671-84.	2.4	45
65	Calcium Imaging of Neuronal Activity in Free-Swimming Larval Zebrafish. <i>Methods in Molecular Biology</i> , 2016, 1451, 333-341.	0.9	14
66	Fluorescence-Activated Cell Sorting and Gene Expression Profiling of GFP-Positive Cells from Transgenic Zebrafish Lines. <i>Methods in Molecular Biology</i> , 2016, 1451, 93-106.	0.9	1
67	Optimization of a Neurotoxin to Investigate the Contribution of Excitatory Interneurons to Speed Modulation In Vivo. <i>Current Biology</i> , 2016, 26, 2319-2328.	3.9	62
68	Fgf signalling controls diverse aspects of fin regeneration. <i>Development (Cambridge)</i> , 2016, 143, 2920-9.	2.5	59
69	Stereotyped initiation of retinal waves by bipolar cells via presynaptic NMDA autoreceptors. <i>Nature Communications</i> , 2016, 7, 12650.	12.8	28
70	CSF-contacting neurons regulate locomotion by relaying mechanical stimuli to spinal circuits. <i>Nature Communications</i> , 2016, 7, 10866.	12.8	162
71	Chromatin-prebound Crm1 recruits Nup98-HoxA9 fusion to induce aberrant expression of Hox cluster genes. <i>ELife</i> , 2016, 5, e09540.	6.0	45
72	Erratum. <i>Methods in Molecular Biology</i> , 2016, 1451, E1-E1.	0.9	0

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73	BAC transgenic zebrafish reveal hypothalamic enhancer activity around obesity associated SNP rs9939609 within the human FTO gene. <i>Genesis</i> , 2015, 53, 640-651.	1.6	6
74	Neuromuscular regulation in zebrafish by a large AAA+ ATPase/ubiquitin ligase, mysterin/RNF213. <i>Scientific Reports</i> , 2015, 5, 16161.	3.3	20
75	Stable and bicistronic expression of two genes in somite- and lateral plate-derived tissues to study chick limb development. <i>BMC Developmental Biology</i> , 2015, 15, 39.	2.1	11
76	Diversification of non-visual photopigment parapinopsin in spectral sensitivity for diverse pineal functions. <i>BMC Biology</i> , 2015, 13, 73.	3.8	38
77	Neuregulin 1 Type II-ErbB Signaling Promotes Cell Divisions Generating Neurons from Neural Progenitor Cells in the Developing Zebrafish Brain. <i>PLoS ONE</i> , 2015, 10, e0127360.	2.5	20
78	Endothelial Ca ²⁺ oscillations reflect VEGFR signaling-regulated angiogenic capacity in vivo. <i>ELife</i> , 2015, 4, .	6.0	79
79	RING finger protein 121 facilitates the degradation and membrane localization of voltage-gated sodium channels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2859-2864.	7.1	22
80	High-resolution live imaging reveals axon-glia interactions during peripheral nerve injury and repair in zebrafish. <i>DMM Disease Models and Mechanisms</i> , 2015, 8, 553-564.	2.4	41
81	Deubiquitinating enzymes regulate Hes1 stability and neuronal differentiation. <i>FEBS Journal</i> , 2015, 282, 2411-2423.	4.7	47
82	Establishment of Gal4 transgenic zebrafish lines for analysis of development of cerebellar neural circuitry. <i>Developmental Biology</i> , 2015, 397, 1-17.	2.0	66
83	Deletion of a kinesin I motor unmask a mechanism of homeostatic branching control by neurotrophin-3. <i>ELife</i> , 2015, 4, .	6.0	30
84	Co-option of Sox3 as the male-determining factor on the Y chromosome in the fish <i>Oryzias dancena</i> . <i>Nature Communications</i> , 2014, 5, 4157.	12.8	275
85	Different combinations of Notch ligands and receptors regulate V2 interneuron progenitor proliferation and V2a/V2b cell fate determination. <i>Developmental Biology</i> , 2014, 391, 196-206.	2.0	37
86	Development of the lateral line canal system through a bone remodeling process in zebrafish. <i>Developmental Biology</i> , 2014, 392, 1-14.	2.0	36
87	Involvement of Androgen Receptor in Sex Determination in an Amphibian Species. <i>PLoS ONE</i> , 2014, 9, e93655.	2.5	27
88	Real-Time Visualization of Neuronal Activity during Perception. <i>Current Biology</i> , 2013, 23, 307-311.	3.9	240
89	Transgenic tools to characterize neuronal properties of discrete populations of zebrafish neurons. <i>Development (Cambridge)</i> , 2013, 140, 3927-3931.	2.5	194
90	Cellular dissection of the spinal cord motor column by BAC transgenesis and gene trapping in zebrafish. <i>Frontiers in Neural Circuits</i> , 2013, 7, 100.	2.8	32

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91	Efficient genetic modification and germ-line transmission of primordial germ cells using piggyBac and Tol2 transposons. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E1466-72.	7.1	150
92	An <i>mnr2b/hlxb9lb</i> enhancer trap line that labels spinal and abducens motor neurons in zebrafish. Developmental Dynamics, 2012, 241, 327-332.	1.8	12
93	Functional validation of human pigmentation SNPs in zebrafish. FASEB Journal, 2012, 26, 774.2.	0.5	0
94	Transposon-mediated BAC transgenesis in zebrafish. Nature Protocols, 2011, 6, 1998-2021.	12.0	206
95	Migration of neuronal precursors from the telencephalic ventricular zone into the olfactory bulb in adult zebrafish. Journal of Comparative Neurology, 2011, 519, 3549-3565.	1.6	59
96	Stable, conditional, and muscle fiber-specific expression of electroporated transgenes in chick limb muscle cells. Developmental Dynamics, 2011, 240, 1223-1232.	1.8	14
97	Imaging functional neural circuits in zebrafish with a new GCaMP and the Gal4FF-UAS system. Communicative and Integrative Biology, 2011, 4, 566-568.	1.4	29
98	Imaging functional neural circuits in zebrafish with a new GCaMP and the Gal4FF-UAS system. Communicative and Integrative Biology, 2011, 4, 566-8.	1.4	24
99	A transgenic zebrafish for monitoring in vivo microtubule structures. Developmental Dynamics, 2010, 239, 2695-2699.	1.8	27
100	zTrap: zebrafish gene trap and enhancer trap database. BMC Developmental Biology, 2010, 10, 105.	2.1	147
101	Mib-Jag1-Notch signalling regulates patterning and structural roles of the notochord by controlling cell-fate decisions. Development (Cambridge), 2010, 137, 2527-2537.	2.5	80
102	Olfactory neural circuitry for attraction to amino acids revealed by transposon-mediated gene trap approach in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 9884-9889.	7.1	128
103	The Tol2-mediated Gal4-UAS method for gene and enhancer trapping in zebrafish. Methods, 2009, 49, 275-281.	3.8	85
104	Transcriptional regulation of a myeloid-lineage specific gene lysozyme C during zebrafish myelopoiesis. Mechanisms of Development, 2009, 126, 314-323.	1.7	45
105	Analysis of Genes and Genome by the Tol2-Mediated Gene and Enhancer Trap Methods. Methods in Molecular Biology, 2009, 546, 85-102.	0.9	16
106	Targeted gene expression by the Gal4-UAS system in zebrafish. Development Growth and Differentiation, 2008, 50, 391-399.	1.5	155
107	Genetic dissection of neural circuits by Tol2 transposon-mediated Gal4 gene and enhancer trapping in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 1255-1260.	7.1	505
108	Insertional mutagenesis by the Tol2 transposon-mediated enhancer trap approach generated mutations in two developmental genes: <i>tcf7</i> and <i>synembryn-like</i> . Development (Cambridge), 2008, 135, 159-169.	2.5	142

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109	Stable integration and conditional expression of electroporated transgenes in chicken embryos. <i>Developmental Biology</i> , 2007, 305, 616-624.	2.0	237
110	Tol2: a versatile gene transfer vector in vertebrates. <i>Genome Biology</i> , 2007, 8, S7.	9.6	442
111	Targeting neural circuitry in zebrafish using GAL4 enhancer trapping. <i>Nature Methods</i> , 2007, 4, 323-326.	19.0	375
112	Functional Dissection of the Tol2 Transposable Element Identified the Minimal cis-Sequence and a Highly Repetitive Sequence in the Subterminal Region Essential for Transposition. <i>Genetics</i> , 2006, 174, 639-649.	2.9	487
113	Transposon tools and methods in zebrafish. <i>Developmental Dynamics</i> , 2005, 234, 244-254.	1.8	268
114	Transposition of the Tol2 Element, an Ac-Like Element From the Japanese Medaka Fish <i>Oryzias latipes</i> , in Mouse Embryonic Stem Cells. <i>Genetics</i> , 2004, 166, 895-899.	2.9	132
115	Transgenesis and Gene Trap Methods in Zebrafish by Using the Tol2 Transposable Element. <i>Methods in Cell Biology</i> , 2004, 77, 201-222.	1.1	247
116	A Transposon-Mediated Gene Trap Approach Identifies Developmentally Regulated Genes in Zebrafish. <i>Developmental Cell</i> , 2004, 7, 133-144.	7.0	767
117	Excision of the Tol2 transposable element of the medaka fish <i>Oryzias latipes</i> in <i>Xenopus laevis</i> and <i>Xenopus tropicalis</i> . <i>Gene</i> , 2004, 338, 93-98.	2.2	49
118	Transposition of the Tol2 Element, an Ac-Like Element From the Japanese Medaka Fish <i>Oryzias latipes</i> , in Mouse Embryonic Stem Cells. <i>Genetics</i> , 2004, 166, 895-899.	2.9	38
119	Excision of the Tol2 transposable element of the medaka fish, <i>Oryzias latipes</i> , in zebrafish, <i>Danio rerio</i> . <i>Gene</i> , 1998, 225, 17-22.	2.2	161