Koichi Kawakami

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	A Transposon-Mediated Gene Trap Approach Identifies Developmentally Regulated Genes in Zebrafish. Developmental Cell, 2004, 7, 133-144.	7.0	767
2	Genetic dissection of neural circuits by <i>Tol2</i> 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
3	Functional Dissection of the Tol2 Transposable Element Identified the Minimal cis-Sequence and a Highly Repetitive Sequence in the Subterminal Region Essential for Transposition. Genetics, 2006, 174, 639-649.	2.9	487
4	Tol2: a versatile gene transfer vector in vertebrates. Genome Biology, 2007, 8, S7.	9.6	442
5	Targeting neural circuitry in zebrafish using GAL4 enhancer trapping. Nature Methods, 2007, 4, 323-326.	19.0	375
6	Co-option of Sox3 as the male-determining factor on the Y chromosome in the fish Oryzias dancena. Nature Communications, 2014, 5, 4157.	12.8	275
7	Transposon tools and methods in zebrafish. Developmental Dynamics, 2005, 234, 244-254.	1.8	268
8	Transgenesis and Gene Trap Methods in Zebrafish by Using the Tol2 Transposable Element. Methods in Cell Biology, 2004, 77, 201-222.	1.1	247
9	Real-Time Visualization of Neuronal Activity during Perception. Current Biology, 2013, 23, 307-311.	3.9	240
10	Stable integration and conditional expression of electroporated transgenes in chicken embryos. Developmental Biology, 2007, 305, 616-624.	2.0	237
11	Transposon-mediated BAC transgenesis in zebrafish. Nature Protocols, 2011, 6, 1998-2021.	12.0	206
12	Transgenic tools to characterize neuronal properties of discrete populations of zebrafish neurons. Development (Cambridge), 2013, 140, 3927-3931.	2.5	194
13	De novo assembly of the goldfish (<i>Carassius auratus</i>) genome and the evolution of genes after whole-genome duplication. Science Advances, 2019, 5, eaav0547.	10.3	182
14	CSF-contacting neurons regulate locomotion by relaying mechanical stimuli to spinal circuits. Nature Communications, 2016, 7, 10866.	12.8	162
15	Excision of the Tol2 transposable element of the medaka fish, Oryzias latipes, in zebrafish, Danio rerio. Gene, 1998, 225, 17-22.	2.2	161
16	Targeted gene expression by the Gal4â€UAS system in zebrafish. Development Growth and Differentiation, 2008, 50, 391-399.	1.5	155
17	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
18	zTrap: zebrafish gene trap and enhancer trap database. BMC Developmental Biology, 2010, 10, 105.	2.1	147

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19	Insertional mutagenesis by the <i>Tol2</i> 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
20	Transposition of the Tol2 Element, an Ac-Like Element From the Japanese Medaka Fish Oryzias latipes, in Mouse Embryonic Stem Cells. Genetics, 2004, 166, 895-899.	2.9	132
21	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
22	Activin-A enhances mTOR signaling to promote aberrant chondrogenesis in fibrodysplasia ossificans progressiva. Journal of Clinical Investigation, 2017, 127, 3339-3352.	8.2	126
23	Neural signatures of sleep in zebrafish. Nature, 2019, 571, 198-204.	27.8	114
24	Transient inflammatory response mediated by interleukin- $1\hat{l}^2$ is required for proper regeneration in zebrafish fin fold. ELife, 2017, 6, .	6.0	112
25	Identification of a neuronal population in the telencephalon essential for fear conditioning in zebrafish. BMC Biology, 2018, 16, 45.	3.8	111
26	Activation of the hypothalamic feeding centre upon visual prey detection. Nature Communications, 2017, 8, 15029.	12.8	98
27	Glia-neuron interactions underlie state transitions to generalized seizures. Nature Communications, 2019, 10, 3830.	12.8	98
28	Left Habenula Mediates Light-Preference Behavior in Zebrafish via an Asymmetrical Visual Pathway. Neuron, 2017, 93, 914-928.e4.	8.1	96
29	The Tol2-mediated Gal4-UAS method for gene and enhancer trapping in zebrafish. Methods, 2009, 49, 275-281.	3.8	85
30	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
31	Endothelial Ca2+ oscillations reflect VEGFR signaling-regulated angiogenic capacity in vivo. ELife, 2015, 4, .	6.0	79
32	A novel perivascular cell population in the zebrafish brain. ELife, 2017, 6, .	6.0	77
33	Motile-Cilia-Mediated Flow Improves Sensitivity and Temporal Resolution of Olfactory Computations. Current Biology, 2017, 27, 166-174.	3.9	74
34	Calcium dysregulation contributes to neurodegeneration in FTLD patient iPSC-derived neurons. Scientific Reports, 2016, 6, 34904.	3.3	67
35	Establishment of Gal4 transgenic zebrafish lines for analysis of development of cerebellar neural circuitry. Developmental Biology, 2015, 397, 1-17.	2.0	66
36	Transposons As Tools for Functional Genomics in Vertebrate Models. Trends in Genetics, 2017, 33, 784-801.	6.7	64

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37	Optimization of a Neurotoxin to Investigate the Contribution of Excitatory Interneurons to Speed Modulation InÂVivo. Current Biology, 2016, 26, 2319-2328.	3.9	62
38	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
39	Fgf signalling controls diverse aspects of fin regeneration. Development (Cambridge), 2016, 143, 2920-9.	2.5	59
40	Epidermal regulation of bone morphogenesis through the development and regeneration of osteoblasts in the zebrafish scale. Developmental Biology, 2018, 437, 105-119.	2.0	59
41	Optogenetic modulation of TDP-43 oligomerization accelerates ALS-related pathologies in the spinal motor neurons. Nature Communications, 2020, 11, 1004.	12.8	59
42	Glycine-alanine dipeptide repeat protein contributes to toxicity in a zebrafish model of C9orf72 associated neurodegeneration. Molecular Neurodegeneration, 2017, 12, 6.	10.8	57
43	A virtual reality system to analyze neural activity and behavior in adult zebrafish. Nature Methods, 2020, 17, 343-351.	19.0	53
44	The Genetic Basis of Morphological Diversity in Domesticated Goldfish. Current Biology, 2020, 30, 2260-2274.e6.	3.9	52
45	Mutant <i>KCNJ3</i> and <i>KCNJ5</i> Potassium Channels as Novel Molecular Targets in Bradyarrhythmias and Atrial Fibrillation. Circulation, 2019, 139, 2157-2169.	1.6	51
46	A bidirectional network for appetite control in larval zebrafish. ELife, 2019, 8, .	6.0	50
47	Excision of the Tol2 transposable element of the medaka fish Oryzias latipes in Xenopus laevis and Xenopus tropicalis. Gene, 2004, 338, 93-98.	2.2	49
48	Deubiquitinating enzymes regulate Hes1 stability and neuronal differentiation. FEBS Journal, 2015, 282, 2411-2423.	4.7	47
49	Transcriptional regulation of a myeloid-lineage specific gene lysozyme C during zebrafish myelopoiesis. Mechanisms of Development, 2009, 126, 314-323.	1.7	45
50	Cellular dynamics of regeneration reveals role of two distinct Pax7 stem cell populations in larval zebrafish muscle repair. DMM Disease Models and Mechanisms, 2016, 9, 671-84.	2.4	45
51	Chromatin-prebound Crm1 recruits Nup98-HoxA9 fusion to induce aberrant expression of Hox cluster genes. ELife, 2016, 5, e09540.	6.0	45
52	Proteasome subunit <i>PSMC3</i> variants cause neurosensory syndrome combining deafness and cataract due to proteotoxic stress. EMBO Molecular Medicine, 2020, 12, e11861.	6.9	43
53	High-resolution live imaging reveals axon-glia interactions during peripheral nerve injury and repair in zebrafish. DMM Disease Models and Mechanisms, 2015, 8, 553-564.	2.4	41
54	A Novel Zebrafish ret Heterozygous Model of Hirschsprung Disease Identifies a Functional Role for mapk10 as a Modifier of Enteric Nervous System Phenotype Severity. PLoS Genetics, 2016, 12, e1006439.	3.5	40

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55	Neural circuitry for stimulus selection in the zebrafish visual system. Neuron, 2021, 109, 805-822.e6.	8.1	40
56	Diversification of non-visual photopigment parapinopsin in spectral sensitivity for diverse pineal functions. BMC Biology, 2015, 13, 73.	3.8	38
57	Transposition of the <i>Tol2</i> Element, an <i>Ac</i> -Like Element From the Japanese Medaka Fish <i>Oryzias latipes</i> , in Mouse Embryonic Stem Cells. Genetics, 2004, 166, 895-899.	2.9	38
58	Different combinations of Notch ligands and receptors regulate V2 interneuron progenitor proliferation and V2a/V2b cell fate determination. Developmental Biology, 2014, 391, 196-206.	2.0	37
59	Development of the lateral line canal system through a bone remodeling process in zebrafish. Developmental Biology, 2014, 392, 1-14.	2.0	36
60	Cellular dissection of the spinal cord motor column by BAC transgenesis and gene trapping in zebrafish. Frontiers in Neural Circuits, 2013, 7, 100.	2.8	32
61	Granule cells control recovery from classical conditioned fear responses in the zebrafish cerebellum. Scientific Reports, 2017, 7, 11865.	3.3	30
62	Deletion of a kinesin I motor unmasks a mechanism of homeostatic branching control by neurotrophin-3. ELife, 2015, 4, .	6.0	30
63	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
64	A novel zebrafish intestinal tumor model reveals a role for <i>cyp7a1</i> -dependent tumor-liver crosstalk in tumor's adverse effects on host. DMM Disease Models and Mechanisms, 2018, 11, .	2.4	29
65	Six6 and Six7 coordinately regulate expression of middle-wavelength opsins in zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 4651-4660.	7.1	29
66	Stereotyped initiation of retinal waves by bipolar cells via presynaptic NMDA autoreceptors. Nature Communications, 2016, 7, 12650.	12.8	28
67	A transgenic zebrafish for monitoring in vivo microtubule structures. Developmental Dynamics, 2010, 239, 2695-2699.	1.8	27
68	Proteolysis regulates cardiomyocyte maturation and tissue integration. Nature Communications, 2017, 8, 14495.	12.8	27
69	Involvement of Androgen Receptor in Sex Determination in an Amphibian Species. PLoS ONE, 2014, 9, e93655.	2.5	27
70	Non-thalamic origin of zebrafish sensory nuclei implies convergent evolution of visual pathways in amniotes and teleosts. ELife, 2020, 9, .	6.0	27
71	A tRNA-based multiplex sgRNA expression system in zebrafish and its application to generation of transgenic albino fish. Scientific Reports, 2018, 8, 13366.	3.3	26
72	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

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73	Protocadherin-Mediated Cell Repulsion Controls the Central Topography and Efferent Projections of the Abducens Nucleus. Cell Reports, 2018, 24, 1562-1572.	6.4	23
74	RING finger protein 121 facilitates the degradation and membrane localization of voltage-gated sodium channels. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2859-2864.	7.1	22
75	Wilms Tumor 1b defines a wound-specific sheath cell subpopulation associated with notochord repair. ELife, 2018, 7, .	6.0	21
76	Neuromuscular regulation in zebrafish by a large AAA+ ATPase/ubiquitin ligase, mysterin/RNF213. Scientific Reports, 2015, 5, 16161.	3.3	20
77	Neuregulin 1 Type II-ErbB Signaling Promotes Cell Divisions Generating Neurons from Neural Progenitor Cells in the Developing Zebrafish Brain. PLoS ONE, 2015, 10, e0127360.	2.5	20
78	A new mode of pancreatic islet innervation revealed by live imaging in zebrafish. ELife, 2018, 7, .	6.0	20
79	Neuronal Circuits That Control Rhythmic Pectoral Fin Movements in Zebrafish. Journal of Neuroscience, 2020, 40, 6678-6690.	3.6	18
80	Reactivation of Notch signaling is required for cardiac valve regeneration. Scientific Reports, 2019, 9, 16059.	3.3	17
81	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
82	Structure/Function Studies of the α4 Subunit Reveal Evolutionary Loss of a GlyR Subtype Involved in Startle and Escape Responses. Frontiers in Molecular Neuroscience, 2018, 11, 23.	2.9	16
83	KCNJ8/ABCC9-containing K-ATP channel modulates brain vascular smooth muscle development and neurovascular coupling. Developmental Cell, 2022, 57, 1383-1399.e7.	7.0	16
84	Stable, conditional, and muscleâ€fiberâ€specific expression of electroporated transgenes in chick limb muscle cells. Developmental Dynamics, 2011, 240, 1223-1232.	1.8	14
85	Calcium Imaging of Neuronal Activity in Free-Swimming Larval Zebrafish. Methods in Molecular Biology, 2016, 1451, 333-341.	0.9	14
86	Gastrointestinal Neurons Expressing HCN4 Regulate Retrograde Peristalsis. Cell Reports, 2020, 30, 2879-2888.e3.	6.4	14
87	Pyramidal Neurons of the Zebrafish Tectum Receive Highly Convergent Input From Torus Longitudinalis. Frontiers in Neuroanatomy, 2021, 15, 636683.	1.7	14
88	Analysis of transcription factors expressed at the anterior mouse limb bud. PLoS ONE, 2017, 12, e0175673.	2.5	13
89	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
90	Visualization of Neuregulin 1 ectodomain shedding reveals its local processing in vitro and in vivo. Scientific Reports, 2016, 6, 28873.	3.3	12

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91	Stable and bicistronic expression of two genes in somite- and lateral plate-derived tissues to study chick limb development. BMC Developmental Biology, 2015, 15, 39.	2.1	11
92	Zebrafish can regenerate endoskeleton in larval pectoral fin but the regenerative ability declines. Developmental Biology, 2020, 463, 110-123.	2.0	11
93	Innervation modulates the functional connectivity between pancreatic endocrine cells. ELife, 2022, 11,	6.0	11
94	Gsx2 is required for specification of neurons in the inferior olivary nuclei from Ptf1a-expressing neural progenitors in zebrafish. Development (Cambridge), 2020, 147, .	2.5	9
95	Involvement of Cerebellar Neural Circuits in Active Avoidance Conditioning in Zebrafish. ENeuro, 2021, 8, ENEURO.0507-20.2021.	1.9	8
96	Pattern of fin rays along the antero-posterior axis based on their connection to distal radials. Zoological Letters, 2019, 5, 30.	1.3	7
97	Development of the anterior lateral line system through local tissueâ€ŧissue interactions in the zebrafish head. Developmental Dynamics, 2020, 249, 1440-1454.	1.8	7
98	A novel gene trap line for visualization and manipulation of erbb3b+ neural crest and glial cells in zebrafish. Developmental Biology, 2022, 482, 114-123.	2.0	7
99	BAC transgenic zebrafish reveal hypothalamic enhancer activity around obesity associated SNP rs9939609 within the human FTO gene. Genesis, 2015, 53, 640-651.	1.6	6
100	Ablation of a Neuronal Population Using a Two-photon Laser and Its Assessment Using Calcium Imaging and Behavioral Recording in Zebrafish Larvae. Journal of Visualized Experiments, 2018, , .	0.3	6
101	Shootins mediate collective cell migration and organogenesis of the zebrafish posterior lateral line system. Scientific Reports, 2019, 9, 12156.	3.3	6
102	Transient and lineage-restricted requirement of Ebf3 for sternum ossification. Development (Cambridge), 2020, 147, .	2.5	6
103	Multi-phaseted problems of TDP-43 in selective neuronal vulnerability in ALS. Cellular and Molecular Life Sciences, 2021, 78, 4453-4465.	5.4	6
104	Haploinsufficiency of PRR12 causes a spectrum of neurodevelopmental, eye, and multisystem abnormalities. Genetics in Medicine, 2021, 23, 1234-1245.	2.4	6
105	Chondroitin sulfate proteoglycan 4 regulates zebrafish body axis organization via Wnt/planar cell polarity pathway. PLoS ONE, 2020, 15, e0230943.	2.5	5
106	Illuminating ALS Motor Neurons With Optogenetics in Zebrafish. Frontiers in Cell and Developmental Biology, 2021, 9, 640414.	3.7	5
107	Muscle defects due to perturbed somite segmentation contribute to late adult scoliosis. Aging, 2020, 12, 18603-18621.	3.1	5
108	Zebrafish lines expressing UASâ€driven red probes for monitoring cytoskeletal dynamics. Genesis, 2016, 54, 483-489.	1.6	4

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109	Enteric nervous system can regenerate in zebrafish larva via migration into the ablated area and proliferation of neural crest-derived cells. Development (Cambridge), 2021, 148, .	2.5	4
110	Integrated Behavioral, Genetic and Brain Circuit Visualization Methods to Unravel Functional Anatomy of Zebrafish Amygdala. Frontiers in Neuroanatomy, 2022, 16, .	1.7	4
111	Electrophysiological and pharmacological characterization of spreading depolarization in the adult zebrafish tectum. Journal of Neurophysiology, 2021, 126, 1934-1942.	1.8	2
112	Fluorescence-Activated Cell Sorting and Gene Expression Profiling of GFP-Positive Cells from Transgenic Zebrafish Lines. Methods in Molecular Biology, 2016, 1451, 93-106.	0.9	1
113	The First International Zebrafish Conference/Workshop in Qatar. Zebrafish, 2019, 16, 493-495.	1.1	1
114	Developmental independence of median fins from the larval fin fold revises their evolutionary origin. Scientific Reports, 2022, 12, 7521.	3.3	1
115	Preface to Vertebrate Brains: evolution, structures and functions. Development Growth and Differentiation, 2017, 59, 160-162.	1.5	0
116	Do not curse the darkness of the spinal cord, light TDP-43. Neural Regeneration Research, 2021, 16, 986.	3.0	0
117	Functional validation of human pigmentation SNPs in zebrafish. FASEB Journal, 2012, 26, 774.2.	0.5	0
118	Erratum. Methods in Molecular Biology, 2016, 1451, E1-E1.	0.9	0
119	Optogenetic Phase Transition of TDP-43 in Spinal Motor Neurons of Zebrafish Larvae. Journal of Visualized Experiments, 2022, , .	0.3	0