

Karl J Clark

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

5,148
citations

126907

33
h-index

98798

67
g-index

103
all docs

103
docs citations

103
times ranked

7913
citing authors

#	ARTICLE	IF	CITATIONS
1	In vivo genome editing using a high-efficiency TALEN system. <i>Nature</i> , 2012, 491, 114-118.	27.8	849
2	Mojo Hand, a TALEN design tool for genome editing applications. <i>BMC Bioinformatics</i> , 2013, 14, 1.	2.6	649
3	A Primer for Morpholino Use in Zebrafish. <i>Zebrafish</i> , 2009, 6, 69-77.	1.1	388
4	Gene transfer into genomes of human cells by the sleeping beauty transposon system. <i>Molecular Therapy</i> , 2003, 8, 108-117.	8.2	328
5	In vivo protein trapping produces a functional expression codex of the vertebrate proteome. <i>Nature Methods</i> , 2011, 8, 506-512.	19.0	169
6	Moesin1 and Ve-cadherin are required in endothelial cells during in vivo tubulogenesis. <i>Development (Cambridge)</i> , 2010, 137, 3119-3128.	2.5	168
7	Phenotypic correction and long-term expression of factor VIII in hemophilic mice by immunotolerization and nonviral gene transfer using the Sleeping Beauty transposon system. <i>Blood</i> , 2005, 105, 2691-2698.	1.4	130
8	Nicotine response genetics in the zebrafish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18662-18667.	7.1	120
9	Zebrafish: a model for the study of addiction genetics. <i>Human Genetics</i> , 2012, 131, 977-1008.	3.8	111
10	Making designer mutants in model organisms. <i>Development (Cambridge)</i> , 2014, 141, 4042-4054.	2.5	105
11	Efficient targeted integration directed by short homology in zebrafish and mammalian cells. <i>ELife</i> , 2020, 9, .	6.0	93
12	The CRISPR System—Keeping Zebrafish Gene Targeting Fresh. <i>Zebrafish</i> , 2013, 10, 116-118.	1.1	90
13	Expression of VE-cadherin in zebrafish embryos: A new tool to evaluate vascular development. <i>Developmental Dynamics</i> , 2004, 231, 204-213.	1.8	87
14	Stressing zebrafish for behavioral genetics. <i>Reviews in the Neurosciences</i> , 2011, 22, 49-62.	2.9	87
15	The NIH Somatic Cell Genome Editing program. <i>Nature</i> , 2021, 592, 195-204.	27.8	84
16	Antitumor effect of FGFR inhibitors on a novel cholangiocarcinoma patient derived xenograft mouse model endogenously expressing an FGFR2-CCDC6 fusion protein. <i>Cancer Letters</i> , 2016, 380, 163-173.	7.2	72
17	SCORE Imaging: Specimen in a Corrected Optical Rotational Enclosure. <i>Zebrafish</i> , 2010, 7, 149-154.	1.1	67
18	A TALE of Two Nucleases: Gene Targeting for the Masses?. <i>Zebrafish</i> , 2011, 8, 147-149.	1.1	61

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19	Transgenic Zebrafish Using Transposable Elements. <i>Methods in Cell Biology</i> , 2011, 104, 137-149.	1.1	61
20	Transposon vectors for gene-trap insertional mutagenesis in vertebrates. <i>Genesis</i> , 2004, 39, 225-233.	1.6	60
21	Robust activation of microhomology-mediated end joining for precision gene editing applications. <i>PLoS Genetics</i> , 2018, 14, e1007652.	3.5	57
22	High Efficiency In Vivo Genome Engineering with a Simplified 15-RVD GoldyTALEN Design. <i>PLoS ONE</i> , 2013, 8, e65259.	2.5	55
23	Enzymatic engineering of the porcine genome with transposons and recombinases. <i>BMC Biotechnology</i> , 2007, 7, 42.	3.3	54
24	Passport , a native Tc1 transposon from flatfish, is functionally active in vertebrate cells. <i>Nucleic Acids Research</i> , 2009, 37, 1239-1247.	14.5	47
25	Trapping Cardiac Recessive Mutants via Expression-Based Insertional Mutagenesis Screening. <i>Circulation Research</i> , 2013, 112, 606-617.	4.5	47
26	FusX: A Rapid One-Step Transcription Activator-Like Effector Assembly System for Genome Science. <i>Human Gene Therapy</i> , 2016, 27, 451-463.	2.7	44
27	Strategies for selection marker-free swine transgenesis using the Sleeping Beauty transposon system. <i>Transgenic Research</i> , 2011, 20, 1125-1137.	2.4	43
28	Combination of Reverse and Chemical Genetic Screens Reveals Angiogenesis Inhibitors and Targets. <i>Chemistry and Biology</i> , 2009, 16, 432-441.	6.0	42
29	Revealing the role of phospholipase C β 3 in the regulation of VEGF-induced vascular permeability. <i>Blood</i> , 2012, 120, 2167-2173.	1.4	40
30	A Sequence-Based Variation Map of Zebrafish. <i>Zebrafish</i> , 2013, 10, 15-20.	1.1	40
31	A transgenic zebrafish model for monitoring glucocorticoid receptor activity. <i>Genes, Brain and Behavior</i> , 2014, 13, 478-487.	2.2	40
32	Elucidating cannabinoid biology in zebrafish (<i>Danio rerio</i>). <i>Gene</i> , 2015, 570, 168-179.	2.2	39
33	RINT1 Bi-allelic Variations Cause Infantile-Onset Recurrent Acute Liver Failure and Skeletal Abnormalities. <i>American Journal of Human Genetics</i> , 2019, 105, 108-121.	6.2	39
34	Conditional gene expression in the mouse using a Sleeping Beauty gene-trap transposon. <i>BMC Biotechnology</i> , 2006, 6, 30.	3.3	37
35	Pigs taking wing with transposons and recombinases. <i>Genome Biology</i> , 2007, 8, S13.	9.6	35
36	Expanding the CRISPR Toolbox with ErCas12a in Zebrafish and Human Cells. <i>CRISPR Journal</i> , 2019, 2, 417-433.	2.9	35

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37	Novel zebrafish behavioral assay to identify modifiers of the rapid, nongenomic stress response. <i>Genes, Brain and Behavior</i> , 2019, 18, e12549.	2.2	35
38	Functional Analysis of Slow Myosin Heavy Chain 1 and Myomesin-3 in Sarcomere Organization in Zebrafish Embryonic Slow Muscles. <i>Journal of Genetics and Genomics</i> , 2012, 39, 69-80.	3.9	30
39	Utility of DNA, RNA, Protein, and Functional Approaches to Solve Cryptic Immunodeficiencies. <i>Journal of Clinical Immunology</i> , 2018, 38, 307-319.	3.8	29
40	Transposon tools hopping in vertebrates. <i>Briefings in Functional Genomics & Proteomics</i> , 2008, 7, 444-453.	3.8	27
41	Genome Engineering with TALE and CRISPR Systems in Neuroscience. <i>Frontiers in Genetics</i> , 2016, 7, 47.	2.3	25
42	The lineage-specific gene <i>ponzr1</i> is essential for zebrafish pronephric and pharyngeal arch development. <i>Development (Cambridge)</i> , 2012, 139, 793-804.	2.5	24
43	zfishbook: connecting you to a world of zebrafish revertible mutants. <i>Nucleic Acids Research</i> , 2012, 40, D907-D911.	14.5	24
44	Impact of integrated translational research on clinical exome sequencing. <i>Genetics in Medicine</i> , 2021, 23, 498-507.	2.4	24
45	<i>Tol2</i> gene trap integrations in the zebrafish amyloid precursor protein genes <i>appa</i> and <i>aplp2</i> reveal accumulation of secreted APP at the embryonic veins. <i>Developmental Dynamics</i> , 2012, 241, 415-425.	1.8	23
46	<i>PCNT</i> point mutations and familial intracranial aneurysms. <i>Neurology</i> , 2018, 91, e2170-e2181.	1.1	22
47	Silent Tyrosinemia Type I Without Elevated Tyrosine or Succinylacetone Associated with Liver Cirrhosis and Hepatocellular Carcinoma. <i>Human Mutation</i> , 2016, 37, 1097-1105.	2.5	21
48	Widening of the genetic and clinical spectrum of Lambdâ€“Shaffer syndrome, a neurodevelopmental disorder due to SOX5 haploinsufficiency. <i>Genetics in Medicine</i> , 2020, 22, 524-537.	2.4	21
49	<i>Sleeping Beauty</i> -mediated correction of Fanconi anemia type C. <i>Journal of Gene Medicine</i> , 2011, 13, 462-469.	2.8	18
50	Protein-Trap Insertional Mutagenesis Uncovers New Genes Involved in Zebrafish Skin Development, Including a Neuregulin 2a-Based ErbB Signaling Pathway Required during Median Fin Fold Morphogenesis. <i>PLoS ONE</i> , 2015, 10, e0130688.	2.5	18
51	Bacterial gene control by DNA looping using engineered dimeric transcription activator like effector (TALE) proteins. <i>Nucleic Acids Research</i> , 2018, 46, 2690-2696.	14.5	18
52	Glucocorticoids Target Ependymal Glia and Inhibit Repair of the Injured Spinal Cord. <i>Frontiers in Cell and Developmental Biology</i> , 2019, 7, 56.	3.7	18
53	Fishing for Answers with Transposons. <i>Marine Biotechnology</i> , 2005, 7, 135-141.	2.4	17
54	Allele-Specific Quantitative PCR for Accurate, Rapid, and Cost-Effective Genotyping. <i>Human Gene Therapy</i> , 2016, 27, 425-435.	2.7	17

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55	Disruption of <i>pdgfra</i> alters endocardial and myocardial fusion during zebrafish cardiac assembly. <i>Biology Open</i> , 2017, 6, 348-357.	1.2	17
56	Forward Genetic Screening Using Behavioral Tests in Zebrafish: A Proof of Concept Analysis of Mutants. <i>Behavior Genetics</i> , 2017, 47, 125-139.	2.1	16
57	The endocannabinoid gene <i>faah2a</i> modulates stress-associated behavior in zebrafish. <i>PLoS ONE</i> , 2018, 13, e0190897.	2.5	16
58	Dicistronic Gene Expression in Developing Zebrafish. <i>Marine Biotechnology</i> , 1999, 1, 552-561.	2.4	15
59	Inhibition of <i>skiA</i> and <i>skiB</i> gene expression ventralizes zebrafish embryos. <i>Genesis</i> , 2001, 30, 149-153.	1.6	14
60	Molecular characterization of known and novel <i>ACVR1</i> variants in phenotypes of aberrant ossification. <i>American Journal of Medical Genetics, Part A</i> , 2019, 179, 1764-1777.	1.2	13
61	The Gene Sculpt Suite: a set of tools for genome editing. <i>Nucleic Acids Research</i> , 2019, 47, W175-W182.	14.5	13
62	Endogenous zebrafish proneural Cre drivers generated by CRISPR/Cas9 short homology directed targeted integration. <i>Scientific Reports</i> , 2021, 11, 1732.	3.3	13
63	The FusX TALE Base Editor (FusXTBE) for Rapid Mitochondrial DNA Programming of Human Cells and Zebrafish Disease Models. <i>CRISPR Journal</i> , 2021, , .	2.9	13
64	Haploinsufficiency as a disease mechanism in <i>GNB1</i> associated neurodevelopmental disorder. <i>Molecular Genetics & Genomic Medicine</i> , 2020, 8, e1477.	1.2	12
65	De novo variants of NR4A2 are associated with neurodevelopmental disorder and epilepsy. <i>Genetics in Medicine</i> , 2020, 22, 1413-1417.	2.4	12
66	GeneWeld: Efficient Targeted Integration Directed by Short Homology in Zebrafish. <i>Bio-protocol</i> , 2021, 11, e4100.	0.4	11
67	Building the vertebrate codex using the gene breaking protein trap library. <i>ELife</i> , 2020, 9, .	6.0	11
68	Mayo Clinic Zebrafish Facility Overview. <i>Zebrafish</i> , 2016, 13, S-44-S-46.	1.1	8
69	Cre/lox regulated conditional rescue and inactivation with zebrafish UFlip alleles generated by CRISPR-Cas9 targeted integration. <i>ELife</i> , 0, 11, .	6.0	8
70	Development and Application of Bovine and Porcine Oligonucleotide Arrays with Protein-Based Annotation. <i>Journal of Biomedicine and Biotechnology</i> , 2010, 2010, 1-11.	3.0	7
71	An In Vivo Method to Quantify Lymphangiogenesis in Zebrafish. <i>PLoS ONE</i> , 2012, 7, e45240.	2.5	7
72	Intestinal Transit Time and Cortisol-Mediated Stress in Zebrafish. <i>Zebrafish</i> , 2017, 14, 404-410.	1.1	5

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73	GoldyTALEN Vectors with Improved Efficiency for Golden Gate TALEN Assembly. <i>Human Gene Therapy</i> , 2016, 27, 423-424.	2.7	4
74	Applications of Transposable Elements in Fish for Transgenesis and Functional Genomics. <i>Molecular Aspects of Fish and Marine Biology</i> , 2004, , 532-580.	0.2	3
75	Functional characterization of a <i>GFAP</i> variant of uncertain significance in an Alexander disease case within the setting of an individualized medicine clinic. <i>Clinical Case Reports (discontinued)</i> , 2016, 4, 885-895.	0.5	3
76	The Transition of Zebrafish Functional Genetics From Random Mutagenesis to Targeted Integration. , 2018, , 401-416.		3
77	Zebrafish and Drug Development: A Behavioral Assay System for Probing Nicotine Function in Larval Zebrafish. <i>Neuromethods</i> , 2012, , 53-70.	0.3	2
78	Designed architectural proteins that tune DNA looping in bacteria. <i>Nucleic Acids Research</i> , 2021, 49, 10382-10396.	14.5	2
79	Biallelic variants in <i>PROZ</i> as a cause of hypercoagulability and livedo racemosa. <i>Thrombosis Research</i> , 2020, 195, 187-189.	1.7	1
80	Characterization of Gene Repression by Designed Transcription Activator-like Effector Dimer Proteins. <i>Biophysical Journal</i> , 2020, 119, 2045-2054.	0.5	1
81	Designer mutants for behavioral genetics. , 2020, , 263-278.		1
82	Chimeric RNA: DNA TracrRNA Improves Homology-Directed Repair <i>In Vitro</i> and <i>In Vivo</i> . <i>CRISPR Journal</i> , 2022, 5, 40-52.	2.9	1
83	An optimized FusX assembly-based technique to introduce mitochondrial TC-to-TT variations in human cell lines. <i>STAR Protocols</i> , 2022, 3, 101288.	1.2	1
84	Spotlight on the Future of Scientific Publication. <i>Zebrafish</i> , 2009, 6, 215-217.	1.1	0