Karl J Clark

List of Publications by Year
in descending order

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84	5,148	126907	98798
papers	citations	33 h-index	67 g-index

103	103	103	7913
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Chimeric RNA: DNA TracrRNA Improves Homology-Directed Repair In Vitro and In Vivo. CRISPR Journal, 2022, 5, 40-52.	2.9	1
2	An optimized FusX assembly-based technique to introduce mitochondrial TC-to-TT variations in human cell lines. STAR Protocols, 2022, 3, 101288.	1.2	1
3	Impact of integrated translational research on clinical exome sequencing. Genetics in Medicine, 2021, 23, 498-507.	2.4	24
4	GeneWeld: Efficient Targeted Integration Directed by Short Homology in Zebrafish. Bio-protocol, 2021, 11, e4100.	0.4	11
5	The NIH Somatic Cell Genome Editing program. Nature, 2021, 592, 195-204.	27.8	84
6	Designed architectural proteins that tune DNA looping in bacteria. Nucleic Acids Research, 2021, 49, 10382-10396.	14.5	2
7	Endogenous zebrafish proneural Cre drivers generated by CRISPR/Cas9 short homology directed targeted integration. Scientific Reports, 2021, 11, 1732.	3.3	13
8	The FusX TALE Base Editor (FusXTBE) for Rapid Mitochondrial DNA Programming of Human Cells and Zebrafish Disease Models. CRISPR Journal, 2021, , .	2.9	13
9	Widening of the genetic and clinical spectrum of Lambâ€“Shaffer syndrome, a neurodevelopmental disorder due to SOX5 haploinsufficiency. Genetics in Medicine, 2020, 22, 524-537.	2.4	21
10	Biallelic variants in PROZ as a cause of hypercoagulability and livedo racemosa. Thrombosis Research, 2020, 195, 187-189.	1.7	1
11	Haploinsufficiency as a disease mechanism in GNB1â€associated neurodevelopmental disorder. Molecular Genetics & Genomic Medicine, 2020, 8, e1477.	1.2	12
12	Characterization of Gene Repression by Designed Transcription Activator-like Effector Dimer Proteins. Biophysical Journal, 2020, 119, 2045-2054.	0.5	1
13	De novo variants of NR4A2 are associated with neurodevelopmental disorder and epilepsy. Genetics in Medicine, 2020, 22, 1413-1417.	2.4	12
14	Efficient targeted integration directed by short homology in zebrafish and mammalian cells. ELife, 2020, 9, .	6.0	93
15	Building the vertebrate codex using the gene breaking protein trap library. ELife, 2020, 9, .	6.0	11
16	Designer mutants for behavioral genetics. , 2020, , 263-278.		1
17	Molecular characterization of known and novel ACVR1 variants in phenotypes of aberrant ossification. American Journal of Medical Genetics, Part A, 2019, 179, 1764-1777.	1.2	13
18	RINT1 Bi-allelic Variations Cause Infantile-Onset Recurrent Acute Liver Failure and Skeletal Abnormalities. American Journal of Human Genetics, 2019, 105, 108-121.	6.2	39

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19	The Gene Sculpt Suite: a set of tools for genome editing. Nucleic Acids Research, 2019, 47, W175-W182.	14.5	13
20	Glucocorticoids Target Ependymal Glia and Inhibit Repair of the Injured Spinal Cord. Frontiers in Cell and Developmental Biology, 2019, 7, 56.	3.7	18
21	Expanding the CRISPR Toolbox with ErCas12a in Zebrafish and Human Cells. CRISPR Journal, 2019, 2, 417-433.	2.9	35
22	Novel zebrafish behavioral assay to identify modifiers of the rapid, nongenomic stress response. Genes, Brain and Behavior, 2019, 18, e12549.	2.2	35
23	Utility of DNA, RNA, Protein, and Functional Approaches to Solve Cryptic Immunodeficiencies. Journal of Clinical Immunology, 2018, 38, 307-319.	3.8	29
24	Bacterial gene control by DNA looping using engineered dimeric transcription activator like effector (TALE) proteins. Nucleic Acids Research, 2018, 46, 2690-2696.	14.5	18
25	PCNT point mutations and familial intracranial aneurysms. Neurology, 2018, 91, e2170-e2181.	1.1	22
26	Robust activation of microhomology-mediated end joining for precision gene editing applications. PLoS Genetics, 2018, 14, e1007652.	3.5	57
27	The Transition of Zebrafish Functional Genetics From Random Mutagenesis to Targeted Integration. , 2018, , 401-416.		3
28	The endocannabinoid gene faah2a modulates stress-associated behavior in zebrafish. PLoS ONE, 2018, 13, e0190897.	2.5	16
29	Disruption ofpdgfraalters endocardial and myocardial fusion during zebrafish cardiac assembly. Biology Open, 2017, 6, 348-357.	1.2	17
30	Intestinal Transit Time and Cortisol-Mediated Stress in Zebrafish. Zebrafish, 2017, 14, 404-410.	1.1	5
31	Forward Genetic Screening Using Behavioral Tests in Zebrafish: A Proof of Concept Analysis of Mutants. Behavior Genetics, 2017, 47, 125-139.	2.1	16
32	Genome Engineering with TALE and CRISPR Systems in Neuroscience. Frontiers in Genetics, 2016, 7, 47.	2.3	25
33	Mayo Clinic Zebrafish Facility Overview. Zebrafish, 2016, 13, S-44-S-46.	1.1	8
34	Allele-Specific Quantitative PCR for Accurate, Rapid, and Cost-Effective Genotyping. Human Gene Therapy, 2016, 27, 425-435.	2.7	17
35	Antitumor effect of FGFR inhibitors on a novel cholangiocarcinoma patient derived xenograft mouse model endogenously expressing an FGFR2-CCDC6 fusion protein. Cancer Letters, 2016, 380, 163-173.	7.2	72
36	GoldyTALEN Vectors with Improved Efficiency for Golden Gate TALEN Assembly. Human Gene Therapy, 2016, 27, 423-424.	2.7	4

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37	Functional characterization of a <scp>GFAP</scp> variant of uncertain significance in an Alexander disease case within the setting of an individualized medicine clinic. Clinical Case Reports (discontinued), 2016, 4, 885-895.	0.5	3
38	Silent Tyrosinemia Type I Without Elevated Tyrosine or Succinylacetone Associated with Liver Cirrhosis and Hepatocellular Carcinoma. Human Mutation, 2016, 37, 1097-1105.	2.5	21
39	FusX: A Rapid One-Step Transcription Activator-Like Effector Assembly System for Genome Science. Human Gene Therapy, 2016, 27, 451-463.	2.7	44
40	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. PLoS ONE, 2015, 10, e0130688.	2.5	18
41	Elucidating cannabinoid biology in zebrafish (Danio rerio). Gene, 2015, 570, 168-179.	2.2	39
42	Making designer mutants in model organisms. Development (Cambridge), 2014, 141, 4042-4054.	2.5	105
43	A transgenic zebrafish model for monitoring glucocorticoid receptor activity. Genes, Brain and Behavior, 2014, 13, 478-487.	2.2	40
44	Mojo Hand, a TALEN design tool for genome editing applications. BMC Bioinformatics, 2013, 14, 1.	2.6	649
45	A Sequence-Based Variation Map of Zebrafish. Zebrafish, 2013, 10, 15-20.	1.1	40
46	The CRISPR Systemâ€"Keeping Zebrafish Gene Targeting Fresh. Zebrafish, 2013, 10, 116-118.	1.1	90
47	Trapping Cardiac Recessive Mutants via Expression-Based Insertional Mutagenesis Screening. Circulation Research, 2013, 112, 606-617.	4.5	47
48	High Efficiency In Vivo Genome Engineering with a Simplified 15-RVD GoldyTALEN Design. PLoS ONE, 2013, 8, e65259.	2.5	55
49	The lineage-specific geneponzr1is essential for zebrafish pronephric and pharyngeal arch development. Development (Cambridge), 2012, 139, 793-804.	2.5	24
50	zfishbook: connecting you to a world of zebrafish revertible mutants. Nucleic Acids Research, 2012, 40, D907-D911.	14.5	24
51	Revealing the role of phospholipase CÎ²3 in the regulation of VEGF-induced vascular permeability. Blood, 2012, 120, 2167-2173.	1.4	40
52	Tol2 gene trap integrations in the zebrafish amyloid precursor protein genes appa and aplp2 reveal accumulation of secreted APP at the embryonic veins. Developmental Dynamics, 2012, 241, 415-425.	1.8	23
53	Zebrafish and Drug Development: A Behavioral Assay System for Probing Nicotine Function in Larval Zebrafish. Neuromethods, 2012, , 53-70.	0.3	2
54	In vivo genome editing using a high-efficiency TALEN system. Nature, 2012, 491, 114-118.	27.8	849

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55	Functional Analysis of Slow Myosin Heavy Chain 1 and Myomesin-3 in Sarcomere Organization in Zebrafish Embryonic Slow Muscles. Journal of Genetics and Genomics, 2012, 39, 69-80.	3.9	30
56	An In Vivo Method to Quantify Lymphangiogenesis in Zebrafish. PLoS ONE, 2012, 7, e45240.	2.5	7
57	Zebrafish: a model for the study of addiction genetics. Human Genetics, 2012, 131, 977-1008.	3.8	111
58	A TALE of Two Nucleases: Gene Targeting for the Masses?. Zebrafish, 2011, 8, 147-149.	1.1	61
59	Transgenic Zebrafish Using Transposable Elements. Methods in Cell Biology, 2011, 104, 137-149.	1.1	61
60	Stressing zebrafish for behavioral genetics. Reviews in the Neurosciences, 2011, 22, 49-62.	2.9	87
61	In vivo protein trapping produces a functional expression codex of the vertebrate proteome. Nature Methods, 2011, 8, 506-512.	19.0	169
62	Strategies for selection marker-free swine transgenesis using the Sleeping Beauty transposon system. Transgenic Research, 2011, 20, 1125-1137.	2.4	43
63	Sleeping Beautyâ€mediated correction of Fanconi anemia type C. Journal of Gene Medicine, 2011, 13, 462-469.	2.8	18
64	Moesin1 and Ve-cadherin are required in endothelial cells during in vivo tubulogenesis. Development (Cambridge), 2010, 137, 3119-3128.	2.5	168
65	Development and Application of Bovine and Porcine Oligonucleotide Arrays with Protein-Based Annotation. Journal of Biomedicine and Biotechnology, 2010, 2010, 1-11.	3.0	7
66	SCORE Imaging: Specimen in a Corrected Optical Rotational Enclosure. Zebrafish, 2010, 7, 149-154.	1.1	67
67	Spotlight on the Future of Scientific Publication. Zebrafish, 2009, 6, 215-217.	1.1	0
68	A Primer for Morpholino Use in Zebrafish. Zebrafish, 2009, 6, 69-77.	1.1	388
69	Nicotine response genetics in the zebrafish. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 18662-18667.	7.1	120
70	Passport , a native Tc1 transposon from flatfish, is functionally active in vertebrate cells. Nucleic Acids Research, 2009, 37, 1239-1247.	14.5	47
71	Combination of Reverse and Chemical Genetic Screens Reveals Angiogenesis Inhibitors and Targets. Chemistry and Biology, 2009, 16, 432-441.	6.0	42
72	Transposon tools hopping in vertebrates. Briefings in Functional Genomics & Proteomics, 2008, 7, 444-453.	3.8	27

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73	Pigs taking wing with transposons and recombinases. Genome Biology, 2007, 8, S13.	9.6	35
74	Enzymatic engineering of the porcine genome with transposons and recombinases. BMC Biotechnology, 2007, 7, 42.	3.3	54
75	Conditional gene expression in the mouse using a Sleeping Beauty gene-trap transposon. BMC Biotechnology, 2006, 6, 30.	3.3	37
76	Phenotypic correction and long-term expression of factor VIII in hemophilic mice by immunotolerization and nonviral gene transfer using the Sleeping Beauty transposon system. Blood, 2005, 105, 2691-2698.	1.4	130
77	Fishing for Answers with Transposons. Marine Biotechnology, 2005, 7, 135-141.	2.4	17
78	Transposon vectors for gene-trap insertional mutagenesis in vertebrates. Genesis, 2004, 39, 225-233.	1.6	60
79	Expression ofVE-cadherin in zebrafish embryos: A new tool to evaluate vascular development. Developmental Dynamics, 2004, 231, 204-213.	1.8	87
80	Applications of Transposable Elements in Fish for Transgenesis and Functional Genomics. Molecular Aspects of Fish and Marine Biology, 2004, , 532-580.	0.2	3
81	Gene transfer into genomes of human cells by the sleeping beauty transposon system. Molecular Therapy, 2003, 8, 108-117.	8.2	328
82	Inhibition ofskiA andskiB gene expression ventralizes zebrafish embryos. Genesis, 2001, 30, 149-153.	1.6	14
83	Dicistronic Gene Expression in Developing Zebrafish. Marine Biotechnology, 1999, 1, 552-561.	2.4	15
84	Cre/lox regulated conditional rescue and inactivation with zebrafish UFlip alleles generated by CRISPR-Cas9 targeted integration. ELife, 0, 11, .	6.0	8