Stephen C Ekker

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174 papers	13,087 citations	52 h-index	113 g-index
223 ext. papers	14,502 ext. citations	6.8 avg, IF	6.23 L-index

#	Paper	IF	Citations
174	Effective targeted gene 'knockdown' in zebrafish. *Nature Genetics*, **2000**, 26, 216-20	36.3	2145
173	p53 activation by knockdown technologies. *PLoS Genetics*, **2007**, 3, e78	6	810
172	In vivo genome editing using a high-efficiency TALEN system. *Nature*, **2012**, 491, 114-8	50.4	744
171	Patterning activities of vertebrate hedgehog proteins in the developing eye and brain. *Current Biology*, **1995**, 5, 944-55	6.3	507
170	Autoproteolysis in hedgehog protein biogenesis. *Science*, **1994**, 266, 1528-37	33.3	471
169	The product of hedgehog autoproteolytic cleavage active in local and long-range signalling. *Nature*, **1995**, 374, 363-6	50.4	447
168	Hedgehog patterning activity: role of a lipophilic modification mediated by the carboxy-terminal autoprocessing domain. *Cell*, **1996**, 86, 21-34	56.2	444
167	A primer for morpholino use in zebrafish. *Zebrafish*, **2009**, 6, 69-77	2	333
166	Mojo Hand, a TALEN design tool for genome editing applications. *BMC Bioinformatics*, **2013**, 14, 1	3.6	332
165	Twisted gastrulation is a conserved extracellular BMP antagonist. *Nature*, **2001**, 410, 479-83	50.4	243
164	Harnessing a high cargo-capacity transposon for genetic applications in vertebrates. *PLoS Genetics*, **2006**, 2, e169	6	233
163	Morphant technology in model developmental systems. *Genesis*, **2001**, 30, 89-93	1.9	215
162	Efficient gene delivery and gene expression in zebrafish using the Sleeping Beauty transposon. *Developmental Biology*, **2003**, 263, 191-202	3.1	201
161	Distinct requirements for zebrafish angiogenesis revealed by a VEGF-A morphant. *Yeast*, **2000**, 17, 294-301	3.4	195
160	Guidelines for morpholino use in zebrafish. *PLoS Genetics*, **2017**, 13, e1007000	6	190
159	Mammalian germ-line transgenesis by transposition. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 4495-9	11.5	183
158	WNT5A mutations in patients with autosomal dominant Robinow syndrome. *Developmental Dynamics*, **2010**, 239, 327-37	2.9	171

157	In vivo protein trapping produces a functional expression codex of the vertebrate proteome. *Nature Methods*, **2011**, 8, 506-15	21.6	143
156	Moesin1 and Ve-cadherin are required in endothelial cells during in vivo tubulogenesis. *Development (Cambridge)*, **2010**, 137, 3119-28	6.6	142
155	Gene transfer efficiency and genome-wide integration profiling of Sleeping Beauty, Tol2, and piggyBac transposons in human primary T cells. *Molecular Therapy*, **2010**, 18, 1803-13	11.7	137
154	Enhancer trapping in zebrafish using the Sleeping Beauty transposon. *BMC Genomics*, **2004**, 5, 62	4.5	135
153	Syndecan-2 is essential for angiogenic sprouting during zebrafish development. *Blood*, **2004**, 103, 1710-9	2.2	128
152	Morphants: a new systematic vertebrate functional genomics approach. *Yeast*, **2000**, 17, 302-306	3.4	126
151	The transcription factors Scl and Lmo2 act together during development of the hemangioblast in zebrafish. *Blood*, **2007**, 109, 2389-98	2.2	116
150	Lessons from morpholino-based screening in zebrafish. *Briefings in Functional Genomics*, **2011**, 10, 181-8	4.9	114
149	Combinatorial antiangiogenic gene therapy by nonviral gene transfer using the sleeping beauty transposon causes tumor regression and improves survival in mice bearing intracranial human glioblastoma. *Molecular Therapy*, **2005**, 12, 778-88	11.7	112
148	Sleeping beauty transposon-mediated gene therapy for prolonged expression. *Advances in Genetics* , **2005**, 54, 189-232	3.3	111
147	Genetic determinants of hyaloid and retinal vasculature in zebrafish. *BMC Developmental Biology*, **2007**, 7, 114	3.1	105
146	Nicotine response genetics in the zebrafish. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 18662-7	11.5	104
145	Wnt5a is required for cardiac outflow tract septation in mice. *Pediatric Research*, **2007**, 61, 386-91	3.2	94
144	Gene-breaking transposon mutagenesis reveals an essential role for histone H2afza in zebrafish larval development. *Mechanisms of Development*, **2006**, 123, 513-29	1.7	94
143	Making designer mutants in model organisms. *Development (Cambridge)*, **2014**, 141, 4042-54	6.6	90
142	Haploinsufficiency of target of rapamycin attenuates cardiomyopathies in adult zebrafish. *Circulation Research*, **2011**, 109, 658-69	15.7	90
141	Functional analysis of human hematopoietic stem cell gene expression using zebrafish. *PLoS Biology*, **2005**, 3, e254	9.7	86
140	Zebrafish: a model for the study of addiction genetics. *Human Genetics*, **2012**, 131, 977-1008	6.3	85

139	The CRISPR system--keeping zebrafish gene targeting fresh. *Zebrafish*, **2013**, 10, 116-8	2	77
138	Expression of VE-cadherin in zebrafish embryos: a new tool to evaluate vascular development. *Developmental Dynamics*, **2004**, 231, 204-13	2.9	76
137	A unique role for 6-O sulfation modification in zebrafish vascular development. *Developmental Biology*, **2005**, 284, 364-76	3.1	74
136	Syndecan-2. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 152-6	5.6	73
135	Vectors and techniques for ectopic gene expression in zebrafish. *Methods in Cell Biology*, **1999**, 59, 117-28	1.8	72
134	Zebrafish as a genomics research model. *Current Pharmaceutical Biotechnology*, **2004**, 5, 409-13	2.6	72
133	Wnt5 signaling in vertebrate pancreas development. *BMC Biology*, **2005**, 3, 23	7.3	71
132	Zinc finger-based knockout punches for zebrafish genes. *Zebrafish*, **2008**, 5, 121-3	2	69
131	Activation of P-TEFb by Androgen Receptor-Regulated Enhancer RNAs in Castration-Resistant Prostate Cancer. *Cell Reports*, **2016**, 15, 599-610	10.6	65
130	Genome-wide reverse genetics framework to identify novel functions of the vertebrate secretome. *PLoS ONE*, **2006**, 1, e104	3.7	63
129	Stressing zebrafish for behavioral genetics. *Reviews in the Neurosciences*, **2011**, 22, 49-62	4.7	62
128	Three-color imaging using fluorescent proteins in living zebrafish embryos. *BioTechniques*, **2001**, 31, 66-70, 72	2.5	62
127	Messenger RNA as a source of transposase for sleeping beauty transposon-mediated correction of hereditary tyrosinemia type I. *Molecular Therapy*, **2007**, 15, 1280-7	11.7	61
126	TALEN knockout of the PSIP1 gene in human cells: analyses of HIV-1 replication and allosteric integrase inhibitor mechanism. *Journal of Virology*, **2014**, 88, 9704-17	6.6	59
125	A TALE of two nucleases: gene targeting for the masses?. *Zebrafish*, **2011**, 8, 147-9	2	58
124	Neuropilin-1 modulates p53/caspases axis to promote endothelial cell survival. *PLoS ONE*, **2007**, 2, e1161	3.7	55
123	Transgenic zebrafish using transposable elements. *Methods in Cell Biology*, **2011**, 104, 137-49	1.8	52
122	Zebrafish for the study of the biological effects of nicotine. *Nicotine and Tobacco Research*, **2011**, 13, 301-12	4.9	50

121	Insertional mutagenesis strategies in zebrafish. *Genome Biology*, **2007**, 8 Suppl 1, S9	18.3	48
120	High efficiency In Vivo genome engineering with a simplified 15-RVD GoldyTALEN design. *PLoS ONE*, **2013**, 8, e65259	3.7	46
119	SCORE imaging: specimen in a corrected optical rotational enclosure. *Zebrafish*, **2010**, 7, 149-54	2	46
118	Etv2 and fli1b function together as key regulators of vasculogenesis and angiogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 865-76	9.4	44
117	New and TALENted genome engineering toolbox. *Circulation Research*, **2013**, 113, 571-87	15.7	43
116	A facile method for somatic, lifelong manipulation of multiple genes in the mouse liver. *Hepatology*, **2008**, 47, 1714-24	11.2	43
115	Liver xeno-repopulation with human hepatocytes in Fah-/-Rag2-/- mice after pharmacological immunosuppression. *American Journal of Pathology*, **2010**, 177, 1311-9	5.8	40
114	Characterization of expanded intermediate cell mass in zebrafish chordin morphant embryos. *Developmental Biology*, **2005**, 277, 235-54	3.1	40
113	Functional analysis of zebrafish microfibril-associated glycoprotein-1 (Magp1) in vivo reveals roles for microfibrils in vascular development and function. *Blood*, **2006**, 107, 4364-74	2.2	40
112	Xenopus frizzled-7 morphant displays defects in dorsoventral patterning and convergent extension movements during gastrulation. *Genesis*, **2001**, 30, 119-22	1.9	39
111	Dynamic gene expression after systemic delivery of plasmid DNA as determined by in vivo bioluminescence imaging. *Human Gene Therapy*, **2005**, 16, 1325-32	4.8	38
110	Functions of flt3 in zebrafish hematopoiesis and its relevance to human acute myeloid leukemia. *Blood*, **2014**, 123, 2518-29	2.2	37
109	A sequence-based variation map of zebrafish. *Zebrafish*, **2013**, 10, 15-20	2	37
108	Zebrafish frizzled-2 morphant displays defects in body axis elongation. *Genesis*, **2001**, 30, 114-8	1.9	37
107	Robust activation of microhomology-mediated end joining for precision gene editing applications. *PLoS Genetics*, **2018**, 14, e1007652	6	37
106	Identifying secretomes in people, pufferfish and pigs. *Nucleic Acids Research*, **2004**, 32, 1414-21	20.1	36
105	Failure to detect DNA-guided genome editing using Natronobacterium gregoryi Argonaute. *Nature Biotechnology*, **2016**, 35, 17-18	44.5	35
104	Trapping cardiac recessive mutants via expression-based insertional mutagenesis screening. *Circulation Research*, **2013**, 112, 606-17	15.7	35

103	Development and Notch signaling requirements of the zebrafish choroid plexus. *PLoS ONE*, **2008**, 3, e3114	3.7	35
102	Functional genomics tools for the analysis of zebrafish pigment. *Pigment Cell & Melanoma Research*, **2004**, 17, 461-70		34
101	Larval zebrafish model for FDA-approved drug repositioning for tobacco dependence treatment. *PLoS ONE*, **2014**, 9, e90467	3.7	34
100	Efficient targeted integration directed by short homology in zebrafish and mammalian cells. *ELife*, **2020**, 9,	8.9	34
99	FusX: A Rapid One-Step Transcription Activator-Like Effector Assembly System for Genome Science. *Human Gene Therapy*, **2016**, 27, 451-63	4.8	33
98	Research resource: whole transcriptome RNA sequencing detects multiple 1,25-dihydroxyvitamin D(3)-sensitive metabolic pathways in developing zebrafish. *Molecular Endocrinology*, **2012**, 26, 1630-42		33
97	Predictors of indoor absolute humidity and estimated effects on influenza virus survival in grade schools. *BMC Infectious Diseases*, **2013**, 13, 71	4	31
96	Floor plate develops upon depletion of tiggy-winkle and sonic hedgehog. *Genesis*, **2001**, 30, 164-9	1.9	31
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93	Efficient transposition of Tol2 in the mouse germline. *Genetics*, **2009**, 183, 1565-73	4	30
92	Maintenance of HSC by Wnt5a secreting AGM-derived stromal cell line. *Experimental Hematology*, **2011**, 39, 114-123.e1-5	3.1	29
91	Primary neuron culture for nerve growth and axon guidance studies in zebrafish (Danio rerio). *PLoS ONE*, **2013**, 8, e57539	3.7	29
90	Revealing the role of phospholipase C3 in the regulation of VEGF-induced vascular permeability. *Blood*, **2012**, 120, 2167-73	2.2	28
89	A modifier screen identifies as a cardiomyopathy susceptibility gene. *JCI Insight*, **2016**, 1,	9.9	28
88	RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. *Journal of Cell Science*, **2015**, 128, 3556-68	5.3	26
87	Precision gene editing technology and applications in nephrology. *Nature Reviews Nephrology*, **2018**, 14, 663-677	14.9	24
86	The lineage-specific gene ponzr1 is essential for zebrafish pronephric and pharyngeal arch development. *Development (Cambridge)*, **2012**, 139, 793-804	6.6	23

85	Sleeping Beauty transposon for efficient gene delivery. *Methods in Cell Biology*, **2004**, 77, 349-62	1.8	23
84	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	4	22
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81	zfishbook: connecting you to a world of zebrafish revertible mutants. *Nucleic Acids Research*, **2012**, 40, D907-11	20.1	21
80	The NIH Somatic Cell Genome Editing program. *Nature*, **2021**, 592, 195-204	50.4	21
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78	Transposon tools hopping in vertebrates. *Briefings in Functional Genomics & Proteomics*, **2008**, 7, 444-53		20
77	Regulation of primitive hematopoiesis in zebrafish embryos by the death receptor gene. *Experimental Hematology*, **2006**, 34, 27-34	3.1	20
76	Trapping fish genes with transposons. *Zebrafish*, **2005**, 1, 335-41	2	20
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74	Humidity as a non-pharmaceutical intervention for influenza A. *PLoS ONE*, **2018**, 13, e0204337	3.7	20
73	The zebrafish genome editing toolkit. *Methods in Cell Biology*, **2016**, 135, 149-70	1.8	19
72	Fishing for understanding: Unlocking the zebrafish gene editor's toolbox. *Methods*, **2018**, 150, 3-10	4.6	18
71	Methionine aminopeptidase 2 is required for HSC initiation and proliferation. *Blood*, **2011**, 118, 5448-57	2.2	18
70	TALEN-Mediated Mutagenesis and Genome Editing. *Methods in Molecular Biology*, **2016**, 1451, 17-30	1.4	17
69	Silent Tyrosinemia Type I Without Elevated Tyrosine or Succinylacetone Associated with Liver Cirrhosis and Hepatocellular Carcinoma. *Human Mutation*, **2016**, 37, 1097-105	4.7	17
68	The LipoGlo reporter system for sensitive and specific monitoring of atherogenic lipoproteins. *Nature Communications*, **2019**, 10, 3426	17.4	17

67	Crosslinked, Glassy Styrenic Surfactants Stabilize Quantum Dots Against Environmental Extremes. *Journal of Materials Chemistry*, **2009**, 19, 6324-6327		17
66	The zebrafish as a model to study polycystic liver disease. *Zebrafish*, **2013**, 10, 211-7	2	16
65	Active recombinant Tol2 transposase for gene transfer and gene discovery applications. *Mobile DNA*, **2016**, 7, 6	4.4	15
64	A PATO-compliant zebrafish screening database (MODB): management of morpholino knockdown screen information. *BMC Bioinformatics*, **2008**, 9, 7	3.6	15
63	Lateral line, nervous system, and maternal expression of Frizzled 7a during zebrafish embryogenesis. *Mechanisms of Development*, **2002**, 115, 107-11	1.7	15
62	Zebrafish genome project: bringing new biology to the vertebrate genome field. *Zebrafish*, **2007**, 4, 239-51	2	14
61	Sonic hedgehog and tiggy-winkle hedgehog cooperatively induce zebrafish branchiomotor neurons. *Genesis*, **2001**, 30, 170-4	1.9	14
60	Sequence, expression, and location of zebrafish frizzled 10. *Mechanisms of Development*, **2000**, 92, 311-4	1.7	14
59	Adolescent mental health education InSciEd Out: a case study of an alternative middle school population. *Journal of Translational Medicine*, **2018**, 16, 84	8.5	13
58	Expanding the CRISPR Toolbox with ErCas12a in Zebrafish and Human Cells. *CRISPR Journal*, **2019**, 2, 417-433	2.5	13
57	The Gene Sculpt Suite: a set of tools for genome editing. *Nucleic Acids Research*, **2019**, 47, W175-W182	20.1	12
56	Detection of 1,25-dihydroxyvitamin D-regulated miRNAs in zebrafish by whole transcriptome sequencing. *Zebrafish*, **2014**, 11, 207-18	2	12
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53	TALEN-mediated genetic tailoring as a tool to analyze the function of acquired mutations in multiple myeloma cells. *Blood Cancer Journal*, **2014**, 4, e210	7	10
52	AMOD: a morpholino oligonucleotide selection tool. *Nucleic Acids Research*, **2005**, 33, W506-11	20.1	10
51	Target selection for Danio rerio functional genomics. *Genesis*, **2001**, 30, 123-5	1.9	10
50	Retinoid X receptor alpha is a spatiotemporally predominant therapeutic target for anthracycline-induced cardiotoxicity. *Science Advances*, **2020**, 6, eaay2939	14.3	10

49	Disruption of alters endocardial and myocardial fusion during zebrafish cardiac assembly. *Biology Open*, **2017**, 6, 348-357	2.2	9
48	Morphants: A New Systematic Vertebrate Functional Genomics Approach. *Yeast*, **2000**, 1, 302-306	3.4	9
47	TGF1-induced Baf60c regulates both smooth muscle cell commitment and quiescence. *PLoS ONE*, **2012**, 7, e47629	3.7	8
46	Imaging cytoplasmic lipid droplets in vivo with fluorescent perilipin 2 and perilipin 3 knock-in zebrafish. *ELife*, **2021**, 10,	8.9	8
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44	Expression of sclerostin in the developing zebrafish (Danio rerio) brain and skeleton. *Gene Expression Patterns*, **2012**, 12, 228-35	1.5	7
43	Expression analysis of PAC1-R and PACAP genes in zebrafish embryos. *Journal of Molecular Neuroscience*, **2011**, 43, 94-100	3.3	7
42	CAR T Cell Immunotherapy in Human and Veterinary Oncology: Changing the Odds Against Hematological Malignancies. *AAPS Journal*, **2019**, 21, 50	3.7	6
41	Students being and becoming scientists: measured success in a novel science education partnership. *Palgrave Communications*, **2016**, 2,	5.3	6
40	In vivo orientation of single myosin lever arms in zebrafish skeletal muscle. *Biophysical Journal*, **2014**, 107, 1403-14	2.9	6
39	An in vivo method to quantify lymphangiogenesis in zebrafish. *PLoS ONE*, **2012**, 7, e45240	3.7	6
38	Building the vertebrate codex using the gene breaking protein trap library. *ELife*, **2020**, 9,	8.9	6
37	Mayo Clinic Zebrafish Facility Overview. *Zebrafish*, **2016**, 13 Suppl 1, S44-6	2	6
36	L-type voltage-gated calcium channel agonists mitigate hearing loss and modify ribbon synapse morphology in the zebrafish model of Usher syndrome type 1. *DMM Disease Models and Mechanisms*, **2020**, 13,	4.1	5
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34	ssDNA and the Argonautes: The Quest for the Next Golden Editor. *Human Gene Therapy*, **2016**, 27, 419-22	4.8	4
33	GeneWeld: a method for efficient targeted integration directed by short homology		4
32	Case-Based Learning in Translational Biomedical Research Education: Providing Realistic and Adaptive Skills for Early-Career Scientists. *Academic Medicine*, **2019**, 94, 213-216	3.9	4

31	GeneWeld: Efficient Targeted Integration Directed by Short Homology in Zebrafish. *Bio-protocol*, **2021**, 11, e4100	0.9	4
30	The ins and outs of VEGF signaling. *Blood*, **2009**, 113, 2123-4	2.2	3
29	Taking a closer look at whole organisms. *ELife*, **2019**, 8,	8.9	3
28	GoldyTALEN Vectors with Improved Efficiency for Golden Gate TALEN Assembly. *Human Gene Therapy*, **2016**, 27, 423-4	4.8	3
27	Endogenous zebrafish proneural Cre drivers generated by CRISPR/Cas9 short homology directed targeted integration. *Scientific Reports*, **2021**, 11, 1732	4.9	3
26	Universal Healthcare for Zebrafish. *Zebrafish*, **2016**, 13 Suppl 1, S1-4	2	2
25	Zebrafish and Drug Development: A Behavioral Assay System for Probing Nicotine Function in Larval Zebrafish. *Neuromethods*, **2012**, 53-70	0.4	2
24	The Role of Sprouty Family Members in Hematopiesis in Zebrafish and Mammals.. *Blood*, **2004**, 104, 137-137	11.7	2
23	Engineering targeted deletions in the mitochondrial genome		2
22	A primer genetic toolkit for exploring mitochondrial biology and disease using zebrafish		2
21	The FusX TALE Base Editor (FusXTBE) for rapid mitochondrial DNA programming of human cells in vitro and zebrafish disease models in vivo		2
20	Influenza knowledge, attitude, and behavior survey for grade school students: design and novel assessment methodology. *Journal of Community Health*, **2014**, 39, 1231-40	4	1
19	Research implications of pigment biology in zebrafish. *Zebrafish*, **2008**, 5, 233-5	2	1
18	Gene Knockdown Approaches Using Unconventional Antisense Oligonucleotides. *Molecular Aspects of Fish and Marine Biology*, **2004**, 454-475		1
17	Applications of Transposable Elements in Fish for Transgenesis and Functional Genomics. *Molecular Aspects of Fish and Marine Biology*, **2004**, 532-580		1
16	Functional Analysis of the Differential Gene Expression Profile of Human HSC Using a Functional Genomics Screen in the Zebrafish.. *Blood*, **2004**, 104, 136-136	2.2	1
15	The GoAudio Quantitative Mobile Audiology Test Enhances Access to Clinical Hearing Assessments. *American Journal of Audiology*, **2020**, 29, 887-897	1.8	1
14	MMEJ-based Precision Gene Editing for applications in Gene Therapy and Functional Genomics		1

13	Humidity as a non-pharmaceutical intervention for influenza A		1
12	Toward Precision Molecular Surgery: Robust, Selective Induction of Microhomology-mediated End Joining in vivo		1
11	Rapid Adaptation and Remote Delivery of Undergraduate Research Training during the COVID-19 Pandemic. *Sustainability*, **2021**, 13, 6133	3.6	1
10	Imaging cytoplasmic lipid droplets in vivo with fluorescent perilipin 2 and perilipin 3 knockin zebrafish		1
9	Rapid adaptation and remote delivery of undergraduate research training during the COVID 19 Pandemic **2021**,		1
8	An optimized FusX assembly-based technique to introduce mitochondrial TC-to-TT variations in human cell lines.. *STAR Protocols*, **2022**, 3, 101288	1.4	1
7	Efficient Gene Editing of CART Cells with CRISPR-Cas12a for Enhanced Antitumor Efficacy. *Blood*, **2020**, 136, 6-7	2.2	0
6	Deploying MMEJ using MENdel in precision gene editing applications for gene therapy and functional genomics. *Nucleic Acids Research*, **2021**, 49, 67-78	20.1	0
5	Down on the (fish) farm. *Zebrafish*, **2008**, 5, 139-40	2	
4	The three musketeers of HSC development. *Blood*, **2008**, 111, 4834-5	2.2	
3	VEGF, sunburn, and wrinkles. *Blood*, **2005**, 105, 2246-2246	2.2	
2	RhoC maintains vascular homeostasis by regulating VEGF-induced signaling in endothelial cells. *Development (Cambridge)*, **2015**, 142, e1.1-e1.1	6.6	
1	320 Genetic Compensation as a mechanism underlying patients with Rare ALS. *Journal of Clinical and Translational Science*, **2022**, 6, 57-57	0.4	