

# Kevin C Eggan

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/9305915/kevin-c-eggan-publications-by-year.pdf>

**Version:** 2024-04-20

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

106  
papers

9,438  
citations

40  
h-index

97  
g-index

122  
ext. papers

11,313  
ext. citations

16  
avg, IF

5.78  
L-index

#	Paper	IF	Citations
106	Considerations and practical implications of performing a phenotypic CRISPR/Cas survival screen.. <i>PLoS ONE</i> , <b>2022</b> , 17, e0263262	3.7	1
105	Loss of mouse Stmn2 function causes motor neuropathy.. <i>Neuron</i> , <b>2022</b> ,	13.9	2
104	Whole-genome analysis of human embryonic stem cells enables rational line selection based on genetic variation.. <i>Cell Stem Cell</i> , <b>2022</b> ,	18	1
103	Cx43 hemichannels contribute to astrocyte-mediated toxicity in sporadic and familial ALS.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2022</b> , 119, e2107391119	11.5	0
102	Spinal motor neuron transplantation to enhance nerve reconstruction strategies: Towards a cell therapy.. <i>Experimental Neurology</i> , <b>2022</b> , 353, 114054	5.7	0
101	The genetic architecture of DNA replication timing in human pluripotent stem cells. <i>Nature Communications</i> , <b>2021</b> , 12, 6746	17.4	4
100	Genoppi is an open-source software for robust and standardized integration of proteomic and genetic data. <i>Nature Communications</i> , <b>2021</b> , 12, 2580	17.4	3
99	Human amyotrophic lateral sclerosis excitability phenotype screen: Target discovery and validation. <i>Cell Reports</i> , <b>2021</b> , 35, 109224	10.6	11
98	Connecting TDP-43 Pathology with Neuropathy. <i>Trends in Neurosciences</i> , <b>2021</b> , 44, 424-440	13.3	10
97	Cancer-Related Mutations Identified in Primed Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , <b>2021</b> , 28, 10-11	18	7
96	De novo DNA methyltransferases DNMT3A and DNMT3B are essential for XIST silencing for erosion of dosage compensation in pluripotent stem cells. <i>Stem Cell Reports</i> , <b>2021</b> , 16, 2138-2148	8	1
95	C9orf72 suppresses systemic and neural inflammation induced by gut bacteria. <i>Nature</i> , <b>2020</b> , 582, 89-94	50.4	83
94	Absence of Survival and Motor Deficits in 500 Repeat C9ORF72 BAC Mice. <i>Neuron</i> , <b>2020</b> , 108, 775-783.e4	13.9	13
93	A High-Content Screen Identifies TPP1 and Aurora B as Regulators of Axonal Mitochondrial Transport. <i>Cell Reports</i> , <b>2019</b> , 28, 3224-3237.e5	10.6	17
92	RNA-seq as a tool for evaluating human embryo competence. <i>Genome Research</i> , <b>2019</b> , 29, 1705-1718	9.7	9
91	Cancer-Related Mutations Identified in Primed and Naive Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , <b>2019</b> , 25, 456-461	18	15
90	Dysregulated protocadherin-pathway activity as an intrinsic defect in induced pluripotent stem cell-derived cortical interneurons from subjects with schizophrenia. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 229-242	25.5	50

89	Comparison of three congruent patient-specific cell types for the modelling of a human genetic Schwann-cell disorder. <i>Nature Biomedical Engineering</i> , <b>2019</b> , 3, 571-582	19	9
88	Herpesviral lytic gene functions render the viral genome susceptible to novel editing by CRISPR/Cas9. <i>ELife</i> , <b>2019</b> , 8,	8.9	19
87	Exome sequencing in amyotrophic lateral sclerosis implicates a novel gene, DNAJC7, encoding a heat-shock protein. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 1966-1974	25.5	56
86	A Stem Cell-Based Screening Platform Identifies Compounds that Desensitize Motor Neurons to Endoplasmic Reticulum Stress. <i>Molecular Therapy</i> , <b>2019</b> , 27, 87-101	11.7	12
85	ALS-implicated protein TDP-43 sustains levels of STMN2, a mediator of motor neuron growth and repair. <i>Nature Neuroscience</i> , <b>2019</b> , 22, 167-179	25.5	154
84	Dipeptide repeat proteins activate a heat shock response found in C9ORF72-ALS/FTLD patients. <i>Acta Neuropathologica Communications</i> , <b>2018</b> , 6, 55	7.3	15
83	Convergence of independent DISC1 mutations on impaired neurite growth via decreased UNC5D expression. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 245	8.6	12
82	All-optical synaptic electrophysiology probes mechanism of ketamine-induced disinhibition. <i>Nature Methods</i> , <b>2018</b> , 15, 823-831	21.6	22
81	Oligodendrocyte differentiation of induced pluripotent stem cells derived from subjects with schizophrenias implicate abnormalities in development. <i>Translational Psychiatry</i> , <b>2018</b> , 8, 230	8.6	25
80	Comparative genomic analysis of embryonic, lineage-converted and stem cell-derived motor neurons. <i>Development (Cambridge)</i> , <b>2018</b> , 145,	6.6	8
79	TDP-43 induces p53-mediated cell death of cortical progenitors and immature neurons. <i>Scientific Reports</i> , <b>2018</b> , 8, 8097	4.9	22
78	All-Optical Electrophysiology for High-Throughput Functional Characterization of a Human iPSC-Derived Motor Neuron Model of ALS. <i>Stem Cell Reports</i> , <b>2018</b> , 10, 1991-2004	8	34
77	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. <i>Cell Reports</i> , <b>2018</b> , 23, 2509-2523	10.6	90
76	The C9orf72-interacting protein Smcr8 is a negative regulator of autoimmunity and lysosomal exocytosis. <i>Genes and Development</i> , <b>2018</b> , 32, 929-943	12.6	41
75	Human pluripotent stem cells recurrently acquire and expand dominant negative P53 mutations. <i>Nature</i> , <b>2017</b> , 545, 229-233	50.4	270
74	Modelling Zika Virus Infection of the Developing Human Brain In Vitro Using Stem Cell Derived Cerebral Organoids. <i>Journal of Visualized Experiments</i> , <b>2017</b> ,	1.6	12
73	A Scaled Framework for CRISPR Editing of Human Pluripotent Stem Cells to Study Psychiatric Disease. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 1315-1327	8	7
72	Reactive Astrocytes Promote ALS-like Degeneration and Intracellular Protein Aggregation in Human Motor Neurons by Disrupting Autophagy through TGF- $\beta$ . <i>Stem Cell Reports</i> , <b>2017</b> , 9, 667-680	8	61

71	Generation of a Motor Nerve Organoid with Human Stem Cell-Derived Neurons. <i>Stem Cell Reports</i> , <b>2017</b> , 9, 1441-1449	8	60
70	Loss-of-function mutations in the C9ORF72 mouse ortholog cause fatal autoimmune disease. <i>Science Translational Medicine</i> , <b>2016</b> , 8, 347ra93	17.5	157
69	Comprehensive Protocols for CRISPR/Cas9-based Gene Editing in Human Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , <b>2016</b> , 38, 5B.6.1-5B.6.60	2.8	23
68	Generation of a TLE1 homozygous knockout human embryonic stem cell line using CRISPR-Cas9. <i>Stem Cell Research</i> , <b>2016</b> , 17, 430-432	1.6	3
67	CAT7 and cat7l Long Non-coding RNAs Tune Polycomb Repressive Complex 1 Function during Human and Zebrafish Development. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 19558-72	5.4	26
66	Two familial ALS proteins function in prevention/repair of transcription-associated DNA damage. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2016</b> , 113, E7701-E7709	11.5	71
65	Monitoring peripheral nerve degeneration in ALS by label-free stimulated Raman scattering imaging. <i>Nature Communications</i> , <b>2016</b> , 7, 13283	17.4	56
64	SLC52A3, A Brown-Vialetto-van Laere syndrome candidate gene is essential for mouse development, but dispensable for motor neuron differentiation. <i>Human Molecular Genetics</i> , <b>2016</b> , 25, 1814-23	5.6	8
63	Genetic Ablation of AXL Does Not Protect Human Neural Progenitor Cells and Cerebral Organoids from Zika Virus Infection. <i>Cell Stem Cell</i> , <b>2016</b> , 19, 703-708	18	185
62	Modeling ALS with motor neurons derived from human induced pluripotent stem cells. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 542-53	25.5	174
61	Generation of a TLE3 heterozygous knockout human embryonic stem cell line using CRISPR-Cas9. <i>Stem Cell Research</i> , <b>2016</b> , 17, 441-443	1.6	4
60	From Dish to Bedside: Lessons Learned While Translating Findings from a Stem Cell Model of Disease to a Clinical Trial. <i>Cell Stem Cell</i> , <b>2015</b> , 17, 8-10	18	59
59	Efficient CRISPR-Cas9-mediated generation of knockin human pluripotent stem cells lacking undesired mutations at the targeted locus. <i>Cell Reports</i> , <b>2015</b> , 11, 875-883	10.6	111
58	A perspective on stem cell modeling of amyotrophic lateral sclerosis. <i>Cell Cycle</i> , <b>2015</b> , 14, 3679-88	4.7	15
57	Modeling pain in vitro using nociceptor neurons reprogrammed from fibroblasts. <i>Nature Neuroscience</i> , <b>2015</b> , 18, 17-24	25.5	135
56	Generation of neuropeptidergic hypothalamic neurons from human pluripotent stem cells. <i>Development (Cambridge)</i> , <b>2015</b> , 142, 633-43	6.6	93
55	ALS-causative mutations in FUS/TLS confer gain and loss of function by altered association with SMN and U1-snRNP. <i>Nature Communications</i> , <b>2015</b> , 6, 6171	17.4	162
54	Motoneurons derived from induced pluripotent stem cells develop mature phenotypes typical of endogenous spinal motoneurons. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 1291-306	6.6	38

53	Intrinsic membrane hyperexcitability of amyotrophic lateral sclerosis patient-derived motor neurons. <i>Cell Reports</i> , <b>2014</b> , 7, 1-11	10.6	444
52	Pathways disrupted in human ALS motor neurons identified through genetic correction of mutant SOD1. <i>Cell Stem Cell</i> , <b>2014</b> , 14, 781-95	18	300
51	How to make spinal motor neurons. <i>Development (Cambridge)</i> , <b>2014</b> , 141, 491-501	6.6	92
50	iPSC-derived dopamine neurons reveal differences between monozygotic twins discordant for Parkinson's disease. <i>Cell Reports</i> , <b>2014</b> , 9, 1173-82	10.6	166
49	Genetic variation in human DNA replication timing. <i>Cell</i> , <b>2014</b> , 159, 1015-1026	56.2	102
48	DNA methylation dynamics of the human preimplantation embryo. <i>Nature</i> , <b>2014</b> , 511, 611-5	50.4	390
47	Axonal transport of TDP-43 mRNA granules is impaired by ALS-causing mutations. <i>Neuron</i> , <b>2014</b> , 81, 536-543	15.9	408
46	Notch inhibition allows oncogene-independent generation of iPS cells. <i>Nature Chemical Biology</i> , <b>2014</b> , 10, 632-639	11.7	48
45	FUS is sequestered in nuclear aggregates in ALS patient fibroblasts. <i>Molecular Biology of the Cell</i> , <b>2014</b> , 25, 2571-8	3.5	40
44	The role of maternal-specific H3K9me3 modification in establishing imprinted X-chromosome inactivation and embryogenesis in mice. <i>Nature Communications</i> , <b>2014</b> , 5, 5464	17.4	43
43	Genetic validation of a therapeutic target in a mouse model of ALS. <i>Science Translational Medicine</i> , <b>2014</b> , 6, 248ra104	17.5	21
42	Ketamine exposure in early development impairs specification of the primary germ cell layers. <i>Neurotoxicology and Teratology</i> , <b>2014</b> , 43, 59-68	3.9	8
41	Nanog-independent reprogramming to iPSCs with canonical factors. <i>Stem Cell Reports</i> , <b>2014</b> , 2, 119-26	8	34
40	Opportunities and challenges of pluripotent stem cell neurodegenerative disease models. <i>Nature Neuroscience</i> , <b>2013</b> , 16, 780-9	25.5	156
39	Reference Maps of human ES and iPS cell variation enable high-throughput characterization of pluripotent cell lines. <i>Cell</i> , <b>2011</b> , 144, 439-52	56.2	756
38	Conversion of mouse and human fibroblasts into functional spinal motor neurons. <i>Cell Stem Cell</i> , <b>2011</b> , 9, 205-18	18	504
37	Constructing and deconstructing stem cell models of neurological disease. <i>Neuron</i> , <b>2011</b> , 70, 626-44	13.9	124
36	Somatic coding mutations in human induced pluripotent stem cells. <i>Nature</i> , <b>2011</b> , 471, 63-7	50.4	998

35	A functionally characterized test set of human induced pluripotent stem cells. <i>Nature Biotechnology</i> , <b>2011</b> , 29, 279-86	44.5	379
34	A small-molecule inhibitor of tgf-Beta signaling replaces sox2 in reprogramming by inducing nanog. <i>Cell Stem Cell</i> , <b>2009</b> , 5, 491-503	18	650
33	Human embryonic stem cell-derived motor neurons are sensitive to the toxic effect of glial cells carrying an ALS-causing mutation. <i>Cell Stem Cell</i> , <b>2008</b> , 3, 637-48	18	365
32	Dolly's legacy: human nuclear transplantation and better medicines for our children. <i>Cloning and Stem Cells</i> , <b>2007</b> , 9, 21-5		3
31	Non-cell autonomous effect of glia on motor neurons in an embryonic stem cell-based ALS model. <i>Nature Neuroscience</i> , <b>2007</b> , 10, 608-14	25.5	626
30	Short-circuiting epiblast development. <i>Cell Stem Cell</i> , <b>2007</b> , 1, 131-2	18	2
29	Ovulated oocytes in adult mice derive from non-circulating germ cells. <i>Nature</i> , <b>2006</b> , 441, 1109-14	50.4	202
28	Part A: Directed Differentiation of Human Embryonic Stem Cells into Early Endoderm Cells179-186		1
27	Part B: Directed Differentiation of Human Embryonic Stem Cells into Dopaminergic Neurons337-347		2
26	In vitro Differentiation of Human ES Cells149-167		3
25	Part B: Directed Differentiation of Human Embryonic Stem Cells into Hepatic Cells187-194		
24	Part C: Directed Differentiation of Human Embryonic Stem Cells into Pancreatic Cells195-211		
23	Part A: Directed Differentiation of Human Embryonic Stem Cells into Cardiomyocytes213-228		
22	Part B: Directed Differentiation of Human Embryonic Stem Cells into Endothelial Cells229-248		
21	Part D: Directed Differentiation of Human Embryonic Stem Cells into Hematopoietic in vivo Repopulating Cells273-285		
20	Part E: Directed Differentiation of Human Embryonic Stem Cells into Lymphocytes287-297		
19	Part F: Directed Differentiation of Human Embryonic Stem Cells into Myeloid Cells299-325		
18	Part A: Directed Differentiation of Human Embryonic Stem Cells into Forebrain Neurons327-336		

17	Part A: Gene Targeting in Human Embryonic Stem Cells: Knock out and Knock in by Homologous Recombination	357-365	
16	Part C: Generation of Human Gene Reporters Using Bacterial Artificial Chromosome Recombineering	377-387	1
15	Sourcing Established Human Embryonic Stem Cell Lines	11-24	2
14	Culture of Human Embryos for Stem Cell Derivation	25-34	
13	Standard Culture of Human Embryonic Stem Cells	53-79	1
12	Chemically-Defined Culture of Human Embryonic Stem Cells	81-90	
11	Phenotypic Analysis of Human Embryonic Stem Cells	91-106	1
10	Genetic and Epigenetic Analysis of Human Embryonic Stem Cell	107-119	
9	Organization and Good Aseptic Technique in the Human Embryonic Stem Cell Laboratory	1-10	
8	Part B: RNA Interference in Human Embryonic Stem Cells	367-375	
7	In vivo Differentiation of Human Embryonic Stem Cells	121-147	
6	Extraembryonic Differentiation of Human ES Cells	169-177	
5	Part C: Directed Differentiation of Human Embryonic Stem Cells into Osteoblasts Cells	249-271	
4	Part C: Directed Differentiation of Human Embryonic Stem Cells into Spinal Motor Neurons	349-355	1
3	Derivation of Human Embryonic Stem Cells	35-51	2
2	Publicly available hiPSC lines with extreme polygenic risk scores for modeling schizophrenia		3
1	Biological insights from the whole genome analysis of human embryonic stem cells		2