

Kevin C Eggan

List of Publications by Citations

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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	Somatic coding mutations in human induced pluripotent stem cells. <i>Nature</i> , 2011 , 471, 63-7	50.4	998
105	Reference Maps of human ES and iPS cell variation enable high-throughput characterization of pluripotent cell lines. <i>Cell</i> , 2011 , 144, 439-52	56.2	756
104	A small-molecule inhibitor of tgf-Beta signaling replaces sox2 in reprogramming by inducing nanog. <i>Cell Stem Cell</i> , 2009 , 5, 491-503	18	650
103	Non-cell autonomous effect of glia on motor neurons in an embryonic stem cell-based ALS model. <i>Nature Neuroscience</i> , 2007 , 10, 608-14	25.5	626
102	Conversion of mouse and human fibroblasts into functional spinal motor neurons. <i>Cell Stem Cell</i> , 2011 , 9, 205-18	18	504
101	Intrinsic membrane hyperexcitability of amyotrophic lateral sclerosis patient-derived motor neurons. <i>Cell Reports</i> , 2014 , 7, 1-11	10.6	444
100	Axonal transport of TDP-43 mRNA granules is impaired by ALS-causing mutations. <i>Neuron</i> , 2014 , 81, 536-543	54.3	408
99	DNA methylation dynamics of the human preimplantation embryo. <i>Nature</i> , 2014 , 511, 611-5	50.4	390
98	A functionally characterized test set of human induced pluripotent stem cells. <i>Nature Biotechnology</i> , 2011 , 29, 279-86	44.5	379
97	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> , 2008 , 3, 637-48	18	365
96	Pathways disrupted in human ALS motor neurons identified through genetic correction of mutant SOD1. <i>Cell Stem Cell</i> , 2014 , 14, 781-95	18	300
95	Human pluripotent stem cells recurrently acquire and expand dominant negative P53 mutations. <i>Nature</i> , 2017 , 545, 229-233	50.4	270
94	Ovulated oocytes in adult mice derive from non-circulating germ cells. <i>Nature</i> , 2006 , 441, 1109-14	50.4	202
93	Genetic Ablation of AXL Does Not Protect Human Neural Progenitor Cells and Cerebral Organoids from Zika Virus Infection. <i>Cell Stem Cell</i> , 2016 , 19, 703-708	18	185
92	Modeling ALS with motor neurons derived from human induced pluripotent stem cells. <i>Nature Neuroscience</i> , 2016 , 19, 542-53	25.5	174
91	iPSC-derived dopamine neurons reveal differences between monozygotic twins discordant for Parkinson's disease. <i>Cell Reports</i> , 2014 , 9, 1173-82	10.6	166
90	ALS-causative mutations in FUS/TLS confer gain and loss of function by altered association with SMN and U1-snRNP. <i>Nature Communications</i> , 2015 , 6, 6171	17.4	162

89	Loss-of-function mutations in the C9ORF72 mouse ortholog cause fatal autoimmune disease. <i>Science Translational Medicine</i> , 2016 , 8, 347ra93	17.5	157
88	Opportunities and challenges of pluripotent stem cell neurodegenerative disease models. <i>Nature Neuroscience</i> , 2013 , 16, 780-9	25.5	156
87	ALS-implicated protein TDP-43 sustains levels of STMN2, a mediator of motor neuron growth and repair. <i>Nature Neuroscience</i> , 2019 , 22, 167-179	25.5	154
86	Modeling pain in vitro using nociceptor neurons reprogrammed from fibroblasts. <i>Nature Neuroscience</i> , 2015 , 18, 17-24	25.5	135
85	Constructing and deconstructing stem cell models of neurological disease. <i>Neuron</i> , 2011 , 70, 626-44	13.9	124
84	Efficient CRISPR-Cas9-mediated generation of knockin human pluripotent stem cells lacking undesired mutations at the targeted locus. <i>Cell Reports</i> , 2015 , 11, 875-883	10.6	111
83	Genetic variation in human DNA replication timing. <i>Cell</i> , 2014 , 159, 1015-1026	56.2	102
82	Generation of neuropeptidergic hypothalamic neurons from human pluripotent stem cells. <i>Development (Cambridge)</i> , 2015 , 142, 633-43	6.6	93
81	How to make spinal motor neurons. <i>Development (Cambridge)</i> , 2014 , 141, 491-501	6.6	92
80	Combining NGN2 Programming with Developmental Patterning Generates Human Excitatory Neurons with NMDAR-Mediated Synaptic Transmission. <i>Cell Reports</i> , 2018 , 23, 2509-2523	10.6	90
79	C9orf72 suppresses systemic and neural inflammation induced by gut bacteria. <i>Nature</i> , 2020 , 582, 89-94	50.4	83
78	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> , 2016 , 113, E7701-E7709	11.5	71
77	Reactive Astrocytes Promote ALS-like Degeneration and Intracellular Protein Aggregation in Human Motor Neurons by Disrupting Autophagy through TGF- β . <i>Stem Cell Reports</i> , 2017 , 9, 667-680	8	61
76	Generation of a Motor Nerve Organoid with Human Stem Cell-Derived Neurons. <i>Stem Cell Reports</i> , 2017 , 9, 1441-1449	8	60
75	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> , 2015 , 17, 8-10	18	59
74	Monitoring peripheral nerve degeneration in ALS by label-free stimulated Raman scattering imaging. <i>Nature Communications</i> , 2016 , 7, 13283	17.4	56
73	Exome sequencing in amyotrophic lateral sclerosis implicates a novel gene, DNAJC7, encoding a heat-shock protein. <i>Nature Neuroscience</i> , 2019 , 22, 1966-1974	25.5	56
72	Dysregulated protocadherin-pathway activity as an intrinsic defect in induced pluripotent stem cell-derived cortical interneurons from subjects with schizophrenia. <i>Nature Neuroscience</i> , 2019 , 22, 229-242	25.5	50

71	Notch inhibition allows oncogene-independent generation of iPSC cells. <i>Nature Chemical Biology</i> , 2014 , 10, 632-639	11.7	48
70	The role of maternal-specific H3K9me3 modification in establishing imprinted X-chromosome inactivation and embryogenesis in mice. <i>Nature Communications</i> , 2014 , 5, 5464	17.4	43
69	The C9orf72-interacting protein Smcr8 is a negative regulator of autoimmunity and lysosomal exocytosis. <i>Genes and Development</i> , 2018 , 32, 929-943	12.6	41
68	FUS is sequestered in nuclear aggregates in ALS patient fibroblasts. <i>Molecular Biology of the Cell</i> , 2014 , 25, 2571-8	3.5	40
67	Motoneurons derived from induced pluripotent stem cells develop mature phenotypes typical of endogenous spinal motoneurons. <i>Journal of Neuroscience</i> , 2015 , 35, 1291-306	6.6	38
66	Nanog-independent reprogramming to iPSCs with canonical factors. <i>Stem Cell Reports</i> , 2014 , 2, 119-26	8	34
65	All-Optical Electrophysiology for High-Throughput Functional Characterization of a Human iPSC-Derived Motor Neuron Model of ALS. <i>Stem Cell Reports</i> , 2018 , 10, 1991-2004	8	34
64	CAT7 and cat7l Long Non-coding RNAs Tune Polycomb Repressive Complex 1 Function during Human and Zebrafish Development. <i>Journal of Biological Chemistry</i> , 2016 , 291, 19558-72	5.4	26
63	Oligodendrocyte differentiation of induced pluripotent stem cells derived from subjects with schizophrenias implicate abnormalities in development. <i>Translational Psychiatry</i> , 2018 , 8, 230	8.6	25
62	Comprehensive Protocols for CRISPR/Cas9-based Gene Editing in Human Pluripotent Stem Cells. <i>Current Protocols in Stem Cell Biology</i> , 2016 , 38, 5B.6.1-5B.6.60	2.8	23
61	All-optical synaptic electrophysiology probes mechanism of ketamine-induced disinhibition. <i>Nature Methods</i> , 2018 , 15, 823-831	21.6	22
60	TDP-43 induces p53-mediated cell death of cortical progenitors and immature neurons. <i>Scientific Reports</i> , 2018 , 8, 8097	4.9	22
59	Genetic validation of a therapeutic target in a mouse model of ALS. <i>Science Translational Medicine</i> , 2014 , 6, 248ra104	17.5	21
58	Herpesviral lytic gene functions render the viral genome susceptible to novel editing by CRISPR/Cas9. <i>ELife</i> , 2019 , 8,	8.9	19
57	A High-Content Screen Identifies TPP1 and Aurora B as Regulators of Axonal Mitochondrial Transport. <i>Cell Reports</i> , 2019 , 28, 3224-3237.e5	10.6	17
56	Cancer-Related Mutations Identified in Primed and Naive Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2019 , 25, 456-461	18	15
55	A perspective on stem cell modeling of amyotrophic lateral sclerosis. <i>Cell Cycle</i> , 2015 , 14, 3679-88	4.7	15
54	Dipeptide repeat proteins activate a heat shock response found in C9ORF72-ALS/FTLD patients. <i>Acta Neuropathologica Communications</i> , 2018 , 6, 55	7.3	15

53	Absence of Survival and Motor Deficits in 500 Repeat C9ORF72 BAC Mice. <i>Neuron</i> , 2020 , 108, 775-783.e43,9	13.9	13
52	Modelling Zika Virus Infection of the Developing Human Brain In Vitro Using Stem Cell Derived Cerebral Organoids. <i>Journal of Visualized Experiments</i> , 2017 ,	1.6	12
51	A Stem Cell-Based Screening Platform Identifies Compounds that Desensitize Motor Neurons to Endoplasmic Reticulum Stress. <i>Molecular Therapy</i> , 2019 , 27, 87-101	11.7	12
50	Convergence of independent DISC1 mutations on impaired neurite growth via decreased UNC5D expression. <i>Translational Psychiatry</i> , 2018 , 8, 245	8.6	12
49	Human amyotrophic lateral sclerosis excitability phenotype screen: Target discovery and validation. <i>Cell Reports</i> , 2021 , 35, 109224	10.6	11
48	Connecting TDP-43 Pathology with Neuropathy. <i>Trends in Neurosciences</i> , 2021 , 44, 424-440	13.3	10
47	RNA-seq as a tool for evaluating human embryo competence. <i>Genome Research</i> , 2019 , 29, 1705-1718	9.7	9
46	Comparison of three congruent patient-specific cell types for the modelling of a human genetic Schwann-cell disorder. <i>Nature Biomedical Engineering</i> , 2019 , 3, 571-582	19	9
45	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> , 2016 , 25, 1814-23	5.6	8
44	Ketamine exposure in early development impairs specification of the primary germ cell layers. <i>Neurotoxicology and Teratology</i> , 2014 , 43, 59-68	3.9	8
43	Comparative genomic analysis of embryonic, lineage-converted and stem cell-derived motor neurons. <i>Development (Cambridge)</i> , 2018 , 145,	6.6	8
42	A Scaled Framework for CRISPR Editing of Human Pluripotent Stem Cells to Study Psychiatric Disease. <i>Stem Cell Reports</i> , 2017 , 9, 1315-1327	8	7
41	Cancer-Related Mutations Identified in Primed Human Pluripotent Stem Cells. <i>Cell Stem Cell</i> , 2021 , 28, 10-11	18	7
40	The genetic architecture of DNA replication timing in human pluripotent stem cells. <i>Nature Communications</i> , 2021 , 12, 6746	17.4	4
39	Generation of a TLE3 heterozygous knockout human embryonic stem cell line using CRISPR-Cas9. <i>Stem Cell Research</i> , 2016 , 17, 441-443	1.6	4
38	Generation of a TLE1 homozygous knockout human embryonic stem cell line using CRISPR-Cas9. <i>Stem Cell Research</i> , 2016 , 17, 430-432	1.6	3
37	Dolly's legacy: human nuclear transplantation and better medicines for our children. <i>Cloning and Stem Cells</i> , 2007 , 9, 21-5		3
36	In vitro Differentiation of Human ES Cells	149-167	3

35	Publicly available hiPSC lines with extreme polygenic risk scores for modeling schizophrenia		3
34	Genoppi is an open-source software for robust and standardized integration of proteomic and genetic data. <i>Nature Communications</i> , 2021 , 12, 2580	17.4	3
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22	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> , 2021 , 16, 2138-2148	8	1
21	Considerations and practical implications of performing a phenotypic CRISPR/Cas survival screen.. <i>PLoS ONE</i> , 2022 , 17, e0263262	3.7	1
20	Whole-genome analysis of human embryonic stem cells enables rational line selection based on genetic variation.. <i>Cell Stem Cell</i> , 2022 ,	18	1
19	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> , 2022 , 119, e2107391119 ^{11.5}		0
18	Spinal motor neuron transplantation to enhance nerve reconstruction strategies: Towards a cell therapy.. <i>Experimental Neurology</i> , 2022 , 353, 114054	5.7	0

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