James Ellis

List of Publications by Year
in descending order

97 papers	7,659 citations	71061 41 h-index	54882 84 g-index
132 all docs	132 docs citations	132 times ranked	10937 citing authors

#	Article	IF	Citations
1	Stage-Specific Optimization of Activin/Nodal and BMP Signaling Promotes Cardiac Differentiation of Mouse and Human Pluripotent Stem Cell Lines. Cell Stem Cell, 2011, 8, 228-240.	5.2	1,034
2	Correction of Sickle Cell Disease in Transgenic Mouse Models by Gene Therapy. Science, 2001, 294, 2368-2371.	6.0	536
3	A chemical probe selectively inhibits G9a and GLP methyltransferase activity in cells. Nature Chemical Biology, 2011, 7, 566-574.	3.9	465
4	Directed differentiation of human pluripotent stem cells into mature airway epithelia expressing functional CFTR protein. Nature Biotechnology, 2012, 30, 876-882.	9.4	371
5	Silencing and Variegation of Gammaretrovirus and Lentivirus Vectors. Human Gene Therapy, 2005, 16, 1241-1246.	1.4	333
6	MBNL proteins repress ES-cell-specific alternative splicing and reprogramming. Nature, 2013, 498, 241-245.	13.7	326
7	Isolation of human iPS cells using EOS lentiviral vectors to select for pluripotency. Nature Methods, 2009, 6, 370-376.	9.0	274
8	Isolation of MECP2-null Rett Syndrome patient hiPS cells and isogenic controls through X-chromosome inactivation. Human Molecular Genetics, 2011, 20, 2103-2115.	1.4	241
9	A Vertebrate Polycomb Response Element Governs Segmentation of the Posterior Hindbrain. Cell, 2009, 138, 885-897.	13.5	218
10	Silencing of gene expression: implications for design of retrovirus vectors. Reviews in Medical Virology, 2001, 11, 205-217.	3.9	163
11	Open and closed domains in the mouse genome are configured as 10â€nm chromatin fibres. EMBO Reports, 2012, 13, 992-996.	2.0	148
12	Retroviral vector silencing during iPS cell induction: An epigenetic beacon that signals distinct pluripotent states. Journal of Cellular Biochemistry, 2008, 105, 940-948.	1.2	142
13	Retrovirus vector silencing is de novo methylase independent and marked by a repressive histone code. EMBO Journal, 2000, 19, 5884-5894.	3.5	140
14	Constitutive heterochromatin reorganization during somatic cell reprogramming. EMBO Journal, 2011, 30, 1778-1789.	3.5	134
15	Retrovirus Silencing, Variegation, Extinction, and Memory Are Controlled by a Dynamic Interplay of Multiple Epigenetic Modifications. Molecular Therapy, 2004, 10, 27-36.	3.7	120
16	Complete Disruption of Autism-Susceptibility Genes by Gene Editing Predominantly Reduces Functional Connectivity of Isogenic Human Neurons. Stem Cell Reports, 2018, 11, 1211-1225.	2.3	111
17	SHANK2 mutations associated with autism spectrum disorder cause hyperconnectivity of human neurons. Nature Neuroscience, 2019, 22, 556-564.	7.1	109
18	High-level erythroid-specific gene expression in primary human and murine hematopoietic cells with self-inactivating lentiviral vectors. Blood, 2001, 98, 2664-2672.	0.6	106

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19	Rett syndrome induced pluripotent stem cell-derived neurons reveal novel neurophysiological alterations. Molecular Psychiatry, 2012, 17, 1261-1271.	4.1	104
20	Induced pluripotent stem cells and reprogramming: seeing the science through the hype. Nature Reviews Genetics, 2009, 10, 878-883.	7.7	96
21	MECP2e1 isoform mutation affects the form and function of neurons derived from Rett syndrome patient iPS cells. Neurobiology of Disease, 2015, 76, 37-45.	2.1	84
22	iPS cells to model CDKL5-related disorders. European Journal of Human Genetics, 2011, 19, 1246-1255.	1.4	80
23	EOS lentiviral vector selection system for human induced pluripotent stem cells. Nature Protocols, 2009, 4, 1828-1844.	5.5	75
24	CNTN5-/+or EHMT2-/+human iPSC-derived neurons from individuals with autism develop hyperactive neuronal networks. ELife, 2019, 8, .	2.8	72
25	Coding regions affect mRNA stability in human cells. Rna, 2019, 25, 1751-1764.	1.6	68
26	MECP2 Isoform-Specific Vectors with Regulated Expression for Rett Syndrome Gene Therapy. PLoS ONE, 2009, 4, e6810.	1.1	66
27	Alternative Induced Pluripotent Stem Cell Characterization Criteria for In Vitro Applications. Cell Stem Cell, 2009, 4, 198-199.	5.2	64
28	Modeling and Rescue of the Vascular Phenotype of Williams-Beuren Syndrome in Patient Induced Pluripotent Stem Cells. Stem Cells Translational Medicine, 2013, 2, 2-15.	1.6	64
29	The beta-globin locus control region enhances transcription of but does not confer position-independent expression onto the lacZ gene in transgenic mice.. EMBO Journal, 1996, 15, 3713-3721.	3.5	63
30	Optimizing neuronal differentiation from induced pluripotent stem cells to model ASD. Frontiers in Cellular Neuroscience, 2014, 8, 109.	1.8	62
31	Retrovirus Silencing and Vector Design: Relevance to Normal and Cancer Stem Cells?. Current Gene Therapy, 2005, 5, 367-373.	0.9	58
32	The regulation of human globin gene switching. Philosophical Transactions of the Royal Society B: Biological Sciences, 1993, 339, 183-191.	1.8	57
33	The Personal Genome Project Canada: findings from whole genome sequences of the inaugural 56 participants. Cmaj, 2018, 190, E126-E136.	0.9	57
34	Synaptic Dysfunction in Human Neurons With Autism-Associated Deletions in PTCHD1-AS. Biological Psychiatry, 2020, 87, 139-149.	0.7	57
35	Retrovirus silencer blocking by the cHS4 insulator is CTCF independent. Nucleic Acids Research, 2003, 31, 5317-5323.	6.5	56
36	MECP2 Is Post-transcriptionally Regulated during Human Neurodevelopment by Combinatorial Action of RNA-Binding Proteins and miRNAs. Cell Reports, 2016, 17, 720-734.	2.9	54

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37	The pluripotency factor <i>Nanog</i> regulates pericentromeric heterochromatin organization in mouse embryonic stem cells. Genes and Development, 2016, 30, 1101-1115.	2.7	50
38	Transgenic Mouse Overexpressing Syntaxin-1A as a Diabetes Model. Diabetes, 2005, 54, 2744-2754.	0.3	49
39	Amelioration of Retroviral Vector Silencing in Locus Control Region Î²-Globin-Transgenic Mice and Transduced F9 Embryonic Cells. Journal of Virology, 1999, 73, 5490-5496.	1.5	49
40	Preclinical target validation using patient-derived cells. Nature Reviews Drug Discovery, 2015, 14, 149-150.	21.5	46
41	Human induced pluripotent stem cellâ€"derived lung progenitor and alveolar epithelial cells attenuate hyperoxia-induced lung injury. Cytotherapy, 2018, 20, 108-125.	0.3	46
42	Shifts in Ribosome Engagement Impact Key Gene Sets in Neurodevelopment and Ubiquitination in Rett Syndrome. Cell Reports, 2020, 30, 4179-4196.e11.	2.9	46
43	Spatiotemporal Proteomic Profiling of Human Cerebral Development. Molecular and Cellular Proteomics, 2017, 16, 1548-1562.	2.5	45
44	Nuclear matrix association of the human Â-globin locus utilizing a novel approach to quantitative real-time PCR. Nucleic Acids Research, 2003, 31, 3257-3266.	6.5	43
45	X-Chromosome Inactivation in Rett Syndrome Human Induced Pluripotent Stem Cells. Frontiers in Psychiatry, 2012, 3, 24.	1.3	41
46	Retrovirus vectors containing an internal attachment site: evidence that circles are not intermediates to murine retrovirus integration. Journal of Virology, 1989, 63, 2844-2846.	1.5	41
47	Ataxia-telangiectasia mutated (ATM) deficiency decreases reprogramming efficiency and leads to genomic instability in iPS cells. Biochemical and Biophysical Research Communications, 2011, 407, 321-326.	1.0	40
48	Cartilage tissue engineering identifies abnormal human induced pluripotent stem cells. Scientific Reports, 2013, 3, 1978.	1.6	40
49	Evaluation of beta-globin gene therapy constructs in single copy transgenic mice. Nucleic Acids Research, 1997, 25, 1296-1302.	6.5	39
50	Introduction of specific point mutations into RNA polymerase II by gene targeting in mouse embryonic stem cells: evidence for a DNA mismatch repair mechanism.. Proceedings of the National Academy of Sciences of the United States of America, 1990, 87, 4680-4684.	3.3	37
51	Full Activity From Human Î²-Globin Locus Control Region Transgenes Requires 5â€²HS1, Distal Î²-Globin Promoter, and 3â€² Î²-Globin Sequences. Blood, 1998, 92, 653-663.	0.6	35
52	Reprogramming progeria fibroblasts reâ€establishes a normal epigenetic landscape. Aging Cell, 2017, 16, 870-887.	3.0	34
53	Human induced pluripotent stem cell derived neurons as a model for Williams-Beuren syndrome. Molecular Brain, 2015, 8, 77.	1.3	33
54	Targeting of Pancreatic Glia in Type 1 Diabetes. Diabetes, 2008, 57, 918-928.	0.3	32

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55	Control of Long-Term Synaptic Potentiation and Learning by Alternative Splicing of the NMDA Receptor Subunit GluN1. Cell Reports, 2019, 29, 4285-4294.e5.	2.9	32
56	A rapid screening procedure for the identification of high-titer retrovirus packaging clones. Gene Therapy, 1997, 4, 744-749.	2.3	30
57	iPSC Technology: Platform for Drug Discovery. Clinical Pharmacology and Therapeutics, 2011, 89, 639-641.	2.3	30
58	eGFP reporter genes silence LCRÎ²-globin transgene expression via CpG dinucleotides. Molecular Therapy, 2005, 11, 591-599.	3.7	29
59	Retrovirus Silencing by an Epigenetic TRIM. Cell, 2007, 131, 13-14.	13.5	29
60	Generation of infant- and pediatric-derived urinary induced pluripotent stem cells competent to form kidney organoids. Pediatric Research, 2020, 87, 647-655.	1.1	29
61	The beta-globin locus control region versus gene therapy vectors: a struggle for expression. Clinical Genetics, 2001, 59, 17-24.	1.0	28
62	Fyn Kinase regulates GluN2B subunit-dominant NMDA receptors in human induced pluripotent stem cell-derived neurons. Scientific Reports, 2016, 6, 23837.	1.6	25
63	Methylglyoxal couples metabolic and translational control of Notch signalling in mammalian neural stem cells. Nature Communications, 2020, 11, 2018.	5.8	25
64	Epigenetics of induced pluripotency, the seven-headed dragon. Stem Cell Research and Therapy, 2010, 1, 3.	2.4	24
65	Precision Health Resource of Control iPSC Lines for Versatile Multilineage Differentiation. Stem Cell Reports, 2019, 13, 1126-1141.	2.3	24
66	Regulation of Human Globin Gene Switching. Cold Spring Harbor Symposia on Quantitative Biology, 1993, 58, 7-13.	2.0	24
67	Multielectrode Arrays for Functional Phenotyping of Neurons from Induced Pluripotent Stem Cell Models of Neurodevelopmental Disorders. Biology, 2022, 11, 316.	1.3	23
68	Locus control region activity by 5â€²HS3 requires a functional interaction with Î²-globin gene regulatory elements: expression of novel Î²/Î³-globin hybrid transgenes. Blood, 2000, 95, 3242-3249.	0.6	21
69	Real-time Fluorescence Tracking of Dynamic Transgene Variegation in Stem Cells. Molecular Therapy, 2007, 15, 810-817.	3.7	21
70	Benefits of Utilizing Gene-Modified iPSCs for Clinical Applications. Cell Stem Cell, 2010, 7, 429-430.	5.2	21
71	Kinetics and Epigenetics of Retroviral Silencing in Mouse Embryonic Stem Cells Defined by Deletion of the D4Z4 Element. Molecular Therapy, 2013, 21, 1536-1550.	3.7	21
72	â€œAgouti NODâ€ identification of a CBA-derived Idd locus on Chromosome 7 and its use for chimera production with NOD embryonic stem cells. Mammalian Genome, 2005, 16, 775-783.	1.0	20

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73	JAGGED1/NOTCH3 activation promotes aortic hypermuscularization and stenosis in elastin deficiency. Journal of Clinical Investigation, 2022, 132, .	3.9	20
74	Retinoblastoma Gene Promoter Directs Transgene Expression Exclusively to the Nervous System. Journal of Biological Chemistry, 2001, 276, 593-600.	1.6	17
75	Unexpected Acceleration of Type 1 Diabetes by Transgenic Expression of B7-H1 in NOD Mouse Peri-Islet Glia. Diabetes, 2010, 59, 2588-2596.	0.3	16
76	Over-Expression of Either MECP2_e1 or MECP2_e2 in Neuronally Differentiated Cells Results in Different Patterns of Gene Expression. PLoS ONE, 2014, 9, e91742.	1.1	16
77	Machine Learning Identifies Clinical andÂGenetic Factors Associated With Anthracycline Cardiotoxicity in PediatricÂCancer Survivors. JACC: CardioOncology, 2020, 2, 690-706.	1.7	16
78	Whole genome sequencing delineates regulatory, copy number, and cryptic splice variants in early onset cardiomyopathy. Npj Genomic Medicine, 2022, 7, 18.	1.7	14
79	Targeting NMDA receptors in neuropsychiatric disorders by drug screening on human neurons derived from pluripotent stem cells. Translational Psychiatry, 2022, 12, .	2.4	12
80	Deviation of islet autoreactivity to cryptic epitopes protects NOD mice from diabetes. European Journal of Immunology, 2003, 33, 546-555.	1.6	11
81	LCR-regulated transgene expression levels depend on the Oct-1 site in the AT-rich region of Î²-globin intron-2. Blood, 2003, 101, 1603-1610.	0.6	11
82	Everolimus Rescues the Phenotype of Elastin Insufficiency in Patient Induced Pluripotent Stem Cellâ€"Derived Vascular Smooth Muscle Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1325-1339.	1.1	10
83	Initiation of DNA replication at the human Â-globin 3' enhancer. Nucleic Acids Research, 2005, 33, 4412-4424.	6.5	9
84	Regulation, diversity and function of MECP2 exon and 3â€²UTR isoforms. Human Molecular Genetics, 2020, 29, R89-R99.	1.4	9
85	Î²-Globin LCR and Intron Elements Cooperate and Direct Spatial Reorganization for Gene Therapy. PLoS Genetics, 2008, 4, e1000051.	1.5	8
86	Personalized Medicine in the Genomics Era: highlights from an international symposium on childhood heart disease. Future Cardiology, 2012, 8, 157-160.	0.5	8
87	Identification of TIA1 mRNA targets during human neuronal development. Molecular Biology Reports, 2021, 48, 6349-6361.	1.0	8
88	Modeling complex neuropsychiatric disease with induced pluripotent stem cells. F1000 Biology Reports, 2010, 2, 84.	4.0	7
89	Alternative polyadenylation is a determinant of oncogenic Ras function. Science Advances, 2021, 7, eabh0562.	4.7	7
90	Modeling neuronal consequences of autism-associated gene regulatory variants with human induced pluripotent stem cells. Molecular Autism, 2020, 11, 33.	2.6	6

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91	Quantification of mRNA ribosomal engagement in human neurons using parallel translating ribosome affinity purification (TRAP) and RNA sequencing. STAR Protocols, 2021, 2, 100229.	0.5	5
92	Rapid Transcriptional Pulsing Dynamics of High Expressing Retroviral Transgenes in Embryonic Stem Cells. PLoS ONE, 2012, 7, e37130.	1.1	5
93	5'HS1 and the Distal beta-Globin Promoter Functionally Interact in Single Copy beta-Globin Transgenic Mice. Annals of the New York Academy of Sciences, 1998, 850, 377-381.	1.8	3
94	Full Activity From Human Î²-Globin Locus Control Region Transgenes Requires 5â€²HS1, Distal Î²-Globin Promoter, and 3â€² Î²-Globin Sequences. Blood, 1998, 92, 653-663.	0.6	2
95	Locus control region activity by 5â€²HS3 requires a functional interaction with Î²-globin gene regulatory elements: expression of novel Î²/Î³-globin hybrid transgenes. Blood, 2000, 95, 3242-3249.	0.6	0
96	Silencing and Variegation of Gammaretrovirus and Lentivirus Vectors. Human Gene Therapy, 2005, .	1.4	0
97	Shifts in Ribosome Engagement Impact Key Gene Sets in Neurodevelopment and Ubiquitination in Rett Syndrome. SSRN Electronic Journal, 0, , .	0.4	0