Jeanne F Loring

List of Publications by Year
in descending order

123 papers	13,153 citations	31949 53 h-index	23514 111 g-index
133 all docs	133 docs citations	133 times ranked	20063 citing authors

#	Article	IF	Citations
1	Full-length mRNA-Seq from single-cell levels of RNA and individual circulating tumor cells. Nature Biotechnology, 2012, 30, 777-782.	9.4	1,347
2	Dynamic changes in the human methylome during differentiation. Genome Research, 2010, 20, 320-331.	2.4	930
3	Dynamic Changes in the Copy Number of Pluripotency and Cell Proliferation Genes in Human ESCs and iPSCs during Reprogramming and Time in Culture. Cell Stem Cell, 2011, 8, 106-118.	5.2	819
4	Neural stem cells improve cognition via BDNF in a transgenic model of Alzheimer disease. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 13594-13599.	3.3	761
5	A bioinformatic assay for pluripotency in human cells. Nature Methods, 2011, 8, 315-317.	9.0	410
6	Immunoglobulin gene rearrangement in B cell deficient mice generated by targeted deletion of the JH locus. International Immunology, 1993, 5, 647-656.	1.8	369
7	Enabling the genomic revolution in Africa. Science, 2014, 344, 1346-1348.	6.0	361
8	Recurrent Variations in DNA Methylation in Human Pluripotent Stem Cells and Their Differentiated Derivatives. Cell Stem Cell, 2012, 10, 620-634.	5.2	352
9	Regulatory networks define phenotypic classes of human stem cell lines. Nature, 2008, 455, 401-405.	13.7	321
10	Protein post-translational modifications and regulation of pluripotency in human stem cells. Cell Research, 2014, 24, 143-160.	5.7	282
11	Gene therapy: can neural stem cells deliver?. Nature Reviews Neuroscience, 2006, 7, 75-84.	4.9	275
12	Epigenetic Characterization of the FMR1 Gene and Aberrant Neurodevelopment in Human Induced Pluripotent Stem Cell Models of Fragile X Syndrome. PLoS ONE, 2011, 6, e26203.	1.1	274
13	Neural crest cell migratory pathways in the trunk of the chick embryo. Developmental Biology, 1987, 121, 220-236.	0.9	268
14	Human embryonic stem cells have a unique epigenetic signature. Genome Research, 2006, 16, 1075-1083.	2.4	250
15	Selectively Reduced Expression of Synaptic Plasticity-Related Genes in Amyloid Precursor Protein + Presenilin-1 Transgenic Mice. Journal of Neuroscience, 2003, 23, 5219-5226.	1.7	223
16	Targeted Gene Correction of Laminopathy-Associated LMNA Mutations in Patient-Specific iPSCs. Cell Stem Cell, 2011, 8, 688-694.	5.2	214
17	Epigenetic Regulation of Pluripotency and Differentiation. Circulation Research, 2014, 115, 311-324.	2.0	205
18	Comprehensive MicroRNA Profiling Reveals a Unique Human Embryonic Stem Cell Signature Dominated by a Single Seed Sequence. Stem Cells, 2008, 26, 1506-1516.	1.4	202

#	Article	IF	Citations
19	Friedreich's Ataxia Induced Pluripotent Stem Cells Model Intergenerational GAAâ‹…TTC Triplet Repeat Instability. Cell Stem Cell, 2010, 7, 631-637.	5.2	191
20	Role of astroglia in Downâ€™s syndrome revealed by patient-derived human-induced pluripotent stem cells. Nature Communications, 2014, 5, 4430.	5.8	178
21	Induced pluripotent stem cells from highly endangered species. Nature Methods, 2011, 8, 829-831.	9.0	164
22	Unraveling Epigenetic Regulation in Embryonic Stem Cells. Cell Stem Cell, 2008, 2, 123-134.	5.2	152
23	iPSCORE: A Resource of 222 iPSC Lines Enabling Functional Characterization of Genetic Variation across a Variety of Cell Types. Stem Cell Reports, 2017, 8, 1086-1100.	2.3	147
24	Dynamic changes in replication timing and gene expression during lineage specification of human pluripotent stem cells. Genome Research, 2015, 25, 1091-1103.	2.4	145
25	Conversion of human fibroblasts to angioblast-like progenitor cells. Nature Methods, 2013, 10, 77-83.	9.0	140
26	The functions of microRNAs in pluripotency and reprogramming. Nature Cell Biology, 2012, 14, 1114-1121.	4.6	130
27	Epigenetic therapy for <scp>F</scp>riedreich ataxia. Annals of Neurology, 2014, 76, 489-508.	2.8	128
28	Increased Risk of Genetic and Epigenetic Instability in Human Embryonic Stem Cells Associated with Specific Culture Conditions. PLoS ONE, 2015, 10, e0118307.	1.1	126
29	Assessing Self-Renewal and Differentiation in Human Embryonic Stem Cell Lines. Stem Cells, 2006, 24, 516-530.	1.4	125
30	A Call to Standardize Teratoma Assays Used to Define Human Pluripotent Cell Lines. Cell Stem Cell, 2010, 6, 412-414.	5.2	121
31	Extracellular matrix materials influence quail neural crest cell differentiation in vitro. Developmental Biology, 1982, 90, 165-174.	0.9	114
32	Genomic Instability in Pluripotent Stem Cells: Implications for Clinical Applications. Journal of Biological Chemistry, 2014, 289, 4578-4584.	1.6	114
33	A panel of induced pluripotent stem cells from chimpanzees: a resource for comparative functional genomics. ELife, 2015, 4, e07103.	2.8	114
34	Cryopreservation by slow cooling with DMSO diminished production of Oct-4 pluripotency marker in human embryonic stem cells. Cryobiology, 2006, 53, 194-205.	0.3	112
35	BMP4-directed trophoblast differentiation of human embryonic stem cells is mediated through a Î”Np63+ cytotrophoblast stem cell state. Development (Cambridge), 2013, 140, 3965-3976.	1.2	111
36	Whole-genome mutational burden analysis of three pluripotency induction methods. Nature Communications, 2016, 7, 10536.	5.8	109

#	Article	IF	Citations
37	Neural stem cells genetically-modified to express neprilysin reduce pathology in Alzheimer transgenic models. Stem Cell Research and Therapy, 2014, 5, 46.	2.4	103
38	Migratory pathways of HNK-1-immunoreactive neural crest cells in the rat embryo. Developmental Biology, 1989, 134, 112-118.	0.9	99
39	Rewinding the process of mammalian extinction. Zoo Biology, 2016, 35, 280-292.	0.5	99
40	Analysis of developmentally homogeneous neural crest cell populations in vitro. Developmental Biology, 1981, 82, 86-94.	0.9	95
41	HDAC inhibition imparts beneficial transgenerational effects in Huntington's disease mice via altered DNA and histone methylation. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E56-64.	3.3	95
42	Specific lectin biomarkers for isolation of human pluripotent stem cells identified through array-based glycomic analysis. Cell Research, 2011, 21, 1551-1563.	5.7	88
43	Transgenic mice containing a human heavy chain immunoglobulin gene fragment cloned in a yeast artificial chromosome. Nature Genetics, 1993, 4, 117-123.	9.4	86
44	Lethal Î±â€“thalassaemia created by gene targeting in mice and its genetic rescue. Nature Genetics, 1995, 11, 33-39.	9.4	86
45	Genome wide profiling of human embryonic stem cells (hESCs), their derivatives and embryonal carcinoma cells to develop base profiles of U.S. Federal government approved hESC lines. BMC Developmental Biology, 2006, 6, 20.	2.1	84
46	Twofold overexpression of human ?-amyloid precursor proteins in transgenic mice does not affect the neuromotor, cognitive, or neurodegenerative sequelae following experimental brain injury. , 1998, 392, 428-438.		83
47	Establishing Standards for the Characterization of Human Embryonic Stem Cell Lines. Stem Cells, 2006, 24, 145-150.	1.4	74
48	Differentiation of neural lineage cells from human pluripotent stem cells. Methods, 2008, 45, 142-158.	1.9	68
49	DNA methylation in embryonic stem cells. Journal of Cellular Biochemistry, 2010, 109, 1-6.	1.2	68
50	NTera2: A Model System to Study Dopaminergic Differentiation of Human Embryonic Stem Cells. Stem Cells and Development, 2005, 14, 517-534.	1.1	64
51	Human Neural Precursor Cells Promote Neurologic Recovery in a Viral Model of Multiple Sclerosis. Stem Cell Reports, 2014, 2, 825-837.	2.3	63
52	Human stem cells from single blastomeres reveal pathways of Embryonic or trophoblast fate specification. Development (Cambridge), 2015, 142, 4010-25.	1.2	62
53	Normal Human Pluripotent Stem Cell Lines Exhibit Pervasive Mosaic Aneuploidy. PLoS ONE, 2011, 6, e23018.	1.1	61
54	Restricted ethnic diversity in human embryonic stem cell lines. Nature Methods, 2010, 7, 6-7.	9.0	56

#	Article	IF	Citations
55	Sprouting and functional regeneration of an identified serotonergic neuron following axotomy. Journal of Neurobiology, 1985, 16, 137-151.	3.7	53
56	A Standard Nomenclature for Referencing and Authentication of Pluripotent Stem Cells. Stem Cell Reports, 2018, 10, 1-6.	2.3	53
57	A Call for Standardized Naming and Reporting of Human ESC and iPSC Lines. Cell Stem Cell, 2011, 8, 357-359.	5.2	52
58	Glycosyltransferase ST6GAL1 contributes to the regulation of pluripotency in human pluripotent stem cells. Scientific Reports, 2015, 5, 13317.	1.6	52
59	Molecular analyses of neurogenic defects in a human pluripotent stem cell model of fragile X syndrome. Brain, 2017, 140, aww357.	3.7	52
60	Adhesive Interactions Between Human Neural Stem Cells and Inflamed Human Vascular Endothelium Are Mediated by Integrins. Stem Cells, 2006, 24, 2367-2372.	1.4	48
61	Isolation of Human Embryonic Stem Cellâ€“Derived Teratomas for the Assessment of Pluripotency. Current Protocols in Stem Cell Biology, 2007, 3, Unit1B.4.	3.0	48
62	Matched miRNA and mRNA signatures from a hESC-based in vitro model of pancreatic differentiation reveal novel regulatory interactions. Journal of Cell Science, 2013, 126, 3848-61.	1.2	48
63	A molecular scheme for improved characterization of human embryonic stem cell lines. BMC Biology, 2006, 4, 28.	1.7	46
64	Complexity of Inflammatory Responses in Endothelial Cells and Vascular Smooth Muscle Cells Determined by Microarray Analysis. Annals of the New York Academy of Sciences, 2002, 975, 77-90.	1.8	45
65	Report of the International Stem Cell Banking Initiative Workshop Activity: Current Hurdles and Progress in Seed-Stock Banking of Human Pluripotent Stem Cells. Stem Cells Translational Medicine, 2017, 6, 1956-1962.	1.6	42
66	The cholinergic system is involved in regulation of the development of the hematopoietic system. Life Sciences, 2007, 80, 2352-2360.	2.0	41
67	DNA methylation fingerprint of neuroblastoma reveals new biological and clinical insights. Epigenomics, 2015, 7, 1137-1153.	1.0	40
68	High-throughput quantitative histological analysis of Alzheimer's disease pathology using a confocal digital microscanner. Nature Biotechnology, 1999, 17, 53-57.	9.4	38
69	A Role for Stem Cell Biology in the Physiological and Pathological Aspects of Aging. Journal of the American Geriatrics Society, 2005, 53, S287-S291.	1.3	36
70	Chromatin Insulator Elements Block Transgene Silencing in Engineered Human Embryonic Stem Cell Lines at a Defined Chromosome 13 Locus. Stem Cells and Development, 2012, 21, 191-205.	1.1	36
71	Beyond Fraud â€" Stem-Cell Research Continues. New England Journal of Medicine, 2006, 354, 321-324.	13.9	35
72	Application of a low cost array-based technique â€" TAB-Array â€" for quantifying and mapping both 5mC and 5hmC at single base resolution in human pluripotent stem cells. Genomics, 2014, 104, 358-367.	1.3	33

#	Article	IF	Citations
73	SCIENCE AND LAW: Intellectual Property and Human Embryonic Stem Cell Research. Science, 2006, 311, 1716-1717.	6.0	32
74	Spontaneous Single-Copy Loss of TP53 in Human Embryonic Stem Cells Markedly Increases Cell Proliferation and Survival. Stem Cells, 2017, 35, 872-885.	1.4	32
75	Rational design of an animal model for alzheimer's disease: introduction of multiple human genomic transgenes to reproduce AD pathology in a rodent. Neurobiology of Aging, 1996, 17, 173-182.	1.5	30
76	The ACTCellerate initiative: large-scale combinatorial cloning of novel human embryonic stem cell derivatives. Regenerative Medicine, 2008, 3, 287-308.	0.8	30
77	Enabling Consistency in Pluripotent Stem Cell-Derived Products for Research and Development and Clinical Applications Through Material Standards. Stem Cells Translational Medicine, 2015, 4, 217-223.	1.6	30
78	Remyelination Is Correlated with Regulatory T Cell Induction Following Human Embryoid Body-Derived Neural Precursor Cell Transplantation in a Viral Model of Multiple Sclerosis. PLoS ONE, 2016, 11, e0157620.	1.1	28
79	Melanocytes Derived from Transgene-Free Human Induced Pluripotent Stem Cells. Journal of Investigative Dermatology, 2013, 133, 2104-2108.	0.3	26
80	Highly Parallel Genome-Wide Expression Analysis of Single Mammalian Cells. PLoS ONE, 2012, 7, e30794.	1.1	24
81	Transcriptome coexpression map of human embryonic stem cells. BMC Genomics, 2006, 7, 103.	1.2	23
82	Equivalence of Conventionally-Derived and Parthenote-Derived Human Embryonic Stem Cells. PLoS ONE, 2011, 6, e14499.	1.1	23
83	The tumorigenic potential of pluripotent stem cells: What can we do to minimize it?. BioEssays, 2016, 38, S86-95.	1.2	23
84	Ethnically diverse pluripotent stem cells for drug development. Trends in Molecular Medicine, 2012, 18, 709-716.	3.5	22
85	Teratoma Generation in the Testis Capsule. Journal of Visualized Experiments, 2011, , e3177.	0.2	21
86	Propagation of human embryonic and induced pluripotent stem cells in an indirect co-culture system. Biochemical and Biophysical Research Communications, 2010, 393, 211-216.	1.0	20
87	Hematopoietic differentiation of embryonic stem cells. Methods, 2008, 45, 159-167.	1.9	19
88	A 3-dimensional extracellular matrix as a delivery system for the transplantation of glioma-targeting neural stem/progenitor cells. Neuro-Oncology, 2010, 12, 645-654.	0.6	19
89	Autologous Induced Pluripotent Stem Cell-Derived Neurons to Treat Parkinson's Disease. Stem Cells and Development, 2018, 27, 958-959.	1.1	19
90	Rewinding Extinction in the Northern White Rhinoceros: Genetically Diverse Induced Pluripotent Stem Cell Bank for Genetic Rescue. Stem Cells and Development, 2021, 30, 177-189.	1.1	19

#	Article	IF	Citations
91	New Monoclonal Antibodies to Defined Cell Surface Proteins on Human Pluripotent Stem Cells. Stem Cells, 2017, 35, 626-640.	1.4	18
92	Hyaluronan is required for generation of hematopoietic cells during differentiation of human embryonic stem cells. Journal of Stem Cells, 2010, 5, 9-21.	1.0	14
93	Evidence That Gene Activation and Silencing during Stem Cell Differentiation Requires a Transcriptionally Paused Intermediate State. PLoS ONE, 2011, 6, e22416.	1.1	12
94	Reducing Mcl-1 gene dosage induces dopaminergic neuronal loss and motor impairments in Park2 knockout mice. Communications Biology, 2019, 2, 125.	2.0	11
95	Growth of an Industry: How U.S. Scientists and Clinicians Have Enabled Stem Cell Tourism. American Journal of Bioethics, 2010, 10, 45-46.	0.5	10
96	The â€˜sweetâ€™ spot of cellular pluripotency: protein glycosylation in human pluripotent stem cells and its applications in regenerative medicine. Expert Opinion on Biological Therapy, 2015, 15, 679-687.	1.4	9
97	Generation of Induced Pluripotent Stem Cells from Mammalian Endangered Species. Methods in Molecular Biology, 2015, 1330, 101-109.	0.4	9
98	Maturation Delay of Human GABAergic Neurogenesis in Fragile X Syndrome Pluripotent Stem Cells. Stem Cells Translational Medicine, 2022, 11, 613-629.	1.6	9
99	Evolution of microarray analysis. Neurobiology of Aging, 2006, 27, 1084-1086.	1.5	7
100	A Global Assessment of Stem Cell Engineering. Tissue Engineering - Part A, 2014, 20, 2575-2589.	1.6	7
101	Promoting remyelination through cell transplantation therapies in a model of viralâ€induced neurodegenerative disease. Developmental Dynamics, 2019, 248, 43-52.	0.8	7
102	Cryopreservation of Human Embryonic Stem Cells. , 2007, , 47-55.		6
103	Preparation of Autogenic Human Feeder Cells for Growth of Human Embryonic Stem Cells. Current Protocols in Stem Cell Biology, 2008, 4, Unit 1C.5.1-1C.5.15.	3.0	6
104	Characterization of the gene delivery properties of baculoviral-based virosomal vectors. Journal of Virological Methods, 2008, 148, 277-282.	1.0	5
105	Intraspinal Transplantation of Mouse and Human Neural Precursor Cells. Current Protocols in Stem Cell Biology, 2013, 26, 2D.16.1-2D.16.16.	3.0	5
106	A compass for stem-cell differentiation. Nature, 2014, 513, 498-499.	13.7	5
107	Stem cell reprogramming: Basic implications and future perspective for movement disorders. Movement Disorders, 2015, 30, 301-312.	2.2	5
108	Active immunotherapy and alternative therapeutic modalities for Alzheimer's disease. Alzheimer's and Dementia: Translational Research and Clinical Interventions, 2020, 6, e12090.	1.8	3

#	Article	IF	Citations
109	A novel form of sperm detachment from eggs of Urechis caupo. Developmental Biology, 1985, 111, 525-529.	0.9	2
110	A patent challenge for human embryonic stem cell research. Nature Reports Stem Cells, 2007, , .	0.1	2
111	FISH Analysis of Human Pluripotent Stem Cells. Methods in Molecular Biology, 2011, 767, 191-200.	0.4	2
112	A Modest Proposal in Response to Rhodes and Schiano. American Journal of Bioethics, 2010, 10, 20-22.	0.5	1
113	Basic Approaches to Gene Expression Analysis of Stem Cells by Microarrays. Methods in Molecular Biology, 2011, 767, 269-282.	0.4	1
114	Equally potent?. EMBO Reports, 2012, 13, 890-894.	2.0	1
115	Circulating melanoma cells isolated from clinical blood samples and characterized by full-length mRNA sequencing at single-cell level.. Journal of Clinical Oncology, 2012, 30, 10539-10539.	0.8	1
116	Designing Animal Models of Alzheimer's Disease with Amyloid Precursor Protein (APP) Transgenes. , 2000, 32, 249-270.		0
117	Intellectual Property: Owning the Stem Cell. , 2007, , 417-425.		0
118	Epigenetic remodeling and stem cells. Drug Discovery Today: Technologies, 2008, 5, e139-e142.	4.0	0
119	The author file: Jeanne Loring and Franz-Josef MÃ¼ller. Nature Methods, 2011, 8, 275-275.	9.0	0
120	Induced Pluripotent Stem Cells. , 2019, , 169-180.		0
121	Applications for stem cells. , 2020, , 445-455.		0
122	Transplantation of iPSC-derived neural progenitor cells promotes clinical recovery and repair in response to murine coronavirus-induced neurologic disease. , 2021, , 31-46.		0
123	The Promoting Equity in Stem Cell Genomics Survey. Regenerative Medicine, 2022, 17, 203-218.	0.8	0