Franz-Josef MÃ¼ller

List of Publications by Year
in descending order

70 papers	7,674 citations	109321 35 h-index	118850 62 g-index
75 all docs	75 docs citations	75 times ranked	11844 citing authors

#	Article	IF	Citations
1	Directed migration of neural stem cells to sites of CNS injury by the stromal cell-derived factor 1Î±/CXC chemokine receptor 4 pathway. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 18117-18122.	7.1	1,023
2	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.	11.1	819
3	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.	7.1	761
4	A bioinformatic assay for pluripotency in human cells. Nature Methods, 2011, 8, 315-317.	19.0	410
5	Recurrent Variations in DNA Methylation in Human Pluripotent Stem Cells and Their Differentiated Derivatives. Cell Stem Cell, 2012, 10, 620-634.	11.1	352
6	Regulatory networks define phenotypic classes of human stem cell lines. Nature, 2008, 455, 401-405.	27.8	321
7	Stem cells act through multiple mechanisms to benefit mice with neurodegenerative metabolic disease. Nature Medicine, 2007, 13, 439-447.	30.7	293
8	Small molecules enable highly efficient neuronal conversion of human fibroblasts. Nature Methods, 2012, 9, 575-578.	19.0	288
9	Gene therapy: can neural stem cells deliver?. Nature Reviews Neuroscience, 2006, 7, 75-84.	10.2	275
10	An Organoid-Based Model of Cortical Development Identifies Non-Cell-Autonomous Defects in Wnt Signaling Contributing to Miller-Dieker Syndrome. Cell Reports, 2017, 19, 50-59.	6.4	223
11	Abnormal neuronal differentiation and mitochondrial dysfunction in hair follicle-derived induced pluripotent stem cells of schizophrenia patients. Molecular Psychiatry, 2013, 18, 1067-1076.	7.9	205
12	Comprehensive MicroRNA Profiling Reveals a Unique Human Embryonic Stem Cell Signature Dominated by a Single Seed Sequence. Stem Cells, 2008, 26, 1506-1516.	3.2	202
13	Stem Cell Differentiation as a Non-Markov Stochastic Process. Cell Systems, 2017, 5, 268-282.e7.	6.2	178
14	Focal Lesions of Human Hippocampal CA1 Neurons in Transient Global Amnesia Impair Place Memory. Science, 2010, 328, 1412-1415.	12.6	169
15	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.	4.8	147
16	Nanog-dependent feedback loops regulate murine embryonic stem cell heterogeneity. Nature Cell Biology, 2012, 14, 1139-1147.	10.3	141
17	A Call to Standardize Teratoma Assays Used to Define Human Pluripotent Cell Lines. Cell Stem Cell, 2010, 6, 412-414.	11.1	121
18	Analysis of short tandem repeat expansions and their methylation state with nanopore sequencing. Nature Biotechnology, 2019, 37, 1478-1481.	17.5	117

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19	Neural stem cells genetically-modified to express neprilysin reduce pathology in Alzheimer transgenic models. Stem Cell Research and Therapy, 2014, 5, 46.	5.5	103
20	Few inputs can reprogram biological networks. Nature, 2011, 478, E4-E4.	27.8	96
21	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
22	TETs compete with DNMT3 activity in pluripotent cells at thousands of methylated somatic enhancers. Nature Genetics, 2020, 52, 819-827.	21.4	83
23	Dnmt1 has de novo activity targeted to transposable elements. Nature Structural and Molecular Biology, 2021, 28, 594-603.	8.2	83
24	Emergence of a Stage-Dependent Human Liver Disease Signature with Directed Differentiation of Alpha-1 Antitrypsin-Deficient iPS Cells. Stem Cell Reports, 2015, 4, 873-885.	4.8	77
25	Reconsidering pluripotency tests: Do we still need teratoma assays?. Stem Cell Research, 2013, 11, 552-562.	0.7	76
26	Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. Nature Communications, 2018, 9, 1925.	12.8	76
27	Vascular endothelial growth factor-stimulated cerebral microvascular endothelial cells mediate the recruitment of neural stem cells to the neurovascular niche. Brain Research, 2009, 1268, 24-37.	2.2	75
28	Principal components analysis and the reported low intrinsic dimensionality of gene expression microarray data. Scientific Reports, 2016, 6, 25696.	3.3	72
29	Impaired epithelial differentiation of induced pluripotent stem cells from ectodermal dysplasia-related patients is rescued by the small compound APR-246/PRIMA-1 ^{MET}. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 2152-2156.	7.1	69
30	Mutations in PMPCB Encoding the Catalytic Subunit of the Mitochondrial Presequence Protease Cause Neurodegeneration in Early Childhood. American Journal of Human Genetics, 2018, 102, 557-573.	6.2	69
31	Differentiation of neural lineage cells from human pluripotent stem cells. Methods, 2008, 45, 142-158.	3.8	68
32	Induced pluripotent stem cells from hair follicles as a cellular model for neurodevelopmental disorders. Stem Cell Research, 2012, 8, 134-140.	0.7	64
33	Neural Stem Cell Transplant Survival in Brains of Mice: Assessing the Effect of Immunity and Ischemia by using Real-time Bioluminescent Imaging. Radiology, 2006, 241, 822-830.	7.3	54
34	Stem cells: crossâ€“talk and developmental programs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 823-837.	4.0	52
35	Adhesive Interactions Between Human Neural Stem Cells and Inflamed Human Vascular Endothelium Are Mediated by Integrins. Stem Cells, 2006, 24, 2367-2372.	3.2	48
36	Detailed comparison of retroviral vectors and promoter configurations for stable and high transgene expression in human induced pluripotent stem cells. Gene Therapy, 2017, 24, 298-307.	4.5	36

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37	Sensory neuropathy-causing mutations in ATL3 affect ERâ€“mitochondria contact sites and impair axonal mitochondrial distribution. Human Molecular Genetics, 2019, 28, 615-627.	2.9	31
38	Automated real-time monitoring of human pluripotent stem cell aggregation in stirred tank reactors. Scientific Reports, 2019, 9, 12297.	3.3	30
39	Sensory-Neuropathy-Causing Mutations in ATL3 Cause Aberrant ER Membrane Tethering. Cell Reports, 2018, 23, 2026-2038.	6.4	29
40	Enhanced cortical neural stem cell identity through short SMAD and WNT inhibition in human cerebral organoids facilitates emergence of outer radial glial cells. Nature Cell Biology, 2022, 24, 981-995.	10.3	26
41	Neural Stem Cell Transplantation in Mouse Brain. Current Protocols in Neuroscience, 2008, 42, Unit 3.10.	2.6	21
42	CryoPause: A New Method to Immediately Initiate Experiments after Cryopreservation of Pluripotent Stem Cells. Stem Cell Reports, 2017, 9, 355-365.	4.8	21
43	Search strategies in a human water maze analogue analyzed with automatic classification methods. Behavioural Brain Research, 2010, 208, 169-177.	2.2	20
44	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.	1.2	19
45	A guide to stem cell identification: Progress and challenges in systemâ€wide predictive testing with complex biomarkers. BioEssays, 2011, 33, 880-890.	2.5	17
46	PhysioSpace: Relating Gene Expression Experiments from Heterogeneous Sources Using Shared Physiological Processes. PLoS ONE, 2013, 8, e77627.	2.5	17
47	Transcription factors, coregulators, and epigenetic marks are linearly correlated and highly redundant. PLoS ONE, 2017, 12, e0186324.	2.5	13
48	Generation of two human isogenic iPSC lines from fetal dermal fibroblasts. Stem Cell Research, 2018, 33, 120-124.	0.7	13
49	Improved retroviral episome transfer of transcription factors enables sustained cell fate modification. Gene Therapy, 2014, 21, 938-949.	4.5	12
50	A Phenotypic Screening Approach to Identify Anticancer Compounds Derived from Marine Fungi. Assay and Drug Development Technologies, 2014, 12, 162-175.	1.2	9
51	Nanopype: a modular and scalable nanopore data processing pipeline. Bioinformatics, 2019, 35, 4770-4772.	4.1	8
52	Scope and Impact of International Research in Human Pluripotent Stem Cells. Stem Cell Reviews and Reports, 2012, 8, 1048-1055.	5.6	7
53	Generation of an iPSC line of a patient with Angelman syndrome due to an imprinting defect. Stem Cell Research, 2018, 33, 20-24.	0.7	7
54	In Vitro Recapitulation of Developmental Transitions in Human Neural Stem Cells. Stem Cells, 2019, 37, 1429-1440.	3.2	6

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55	An automated and high-throughput-screening compatible pluripotent stem cell-based test platform for developmental and reproductive toxicity assessment of small molecule compounds. Cell Biology and Toxicology, 2021, 37, 229-243.	5.3	6
56	Power-Laws and the Use of Pluripotent Stem Cell Lines. PLoS ONE, 2013, 8, e52068.	2.5	6
57	A compass for stem-cell differentiation. Nature, 2014, 513, 498-499.	27.8	5
58	Stem cell reprogramming: Basic implications and future perspective for movement disorders. Movement Disorders, 2015, 30, 301-312.	3.9	5
59	Nanopore SimulatION â€“ a raw data simulator for Nanopore Sequencing. , 2018, , .		4
60	Assessment of human pluripotent stem cells with PluriTest. Stembook, 2014, , .	0.3	4
61	Alzheimer: Stem Cell Therapies for Neurodegenerative Disease: How Should We Push Ahead?. Journal of Alzheimer's Disease, 2005, 8, 75-80.	2.6	1
62	Basic Approaches to Gene Expression Analysis of Stem Cells by Microarrays. Methods in Molecular Biology, 2011, 767, 269-282.	0.9	1
63	The author file: Jeanne Loring and Franz-Josef MÃ¼ller. Nature Methods, 2011, 8, 275-275.	19.0	0
64	Differentiation of Human Pluripotent Stem Cells into Neural Precursors. , 2012, , 375-384.		0
65	PluriTest Molecular Diagnostic Assay for Pluripotency in Human Stem Cells. , 2012, , 293-311.		0
66	Investigation of potential traces of pluripotency in germinal-center-derived B-cell lymphomas driven by MYC. Blood Cancer Journal, 2015, 5, e317-e317.	6.2	0
67	Utilizing Regulatory Networks for Pluripotency Assessment in Stem Cells. Current Stem Cell Reports, 2016, 2, 228-235.	1.6	0
68	Neural Stem Cell Therapy in Lysosomal Storage Disorders. , 2007, , 197-216.		0
69	What Can Networks Do for You?. , 2012, , 173-194.		0
70	Differentiation of disease-specific induced pluripotent stem cells into a blood-brain barrier system analyzing the role of APOE4 in AlzheimerÊ¼s disease. , 2020, 53, .		0