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	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
2	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
3	Dnmt1 has de novo activity targeted to transposable elements. Nature Structural and Molecular Biology, 2021, 28, 594-603.	8.2	83
4	TETs compete with DNMT3 activity in pluripotent cells at thousands of methylated somatic enhancers. Nature Genetics, 2020, 52, 819-827.	21.4	83
5	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
6	In Vitro Recapitulation of Developmental Transitions in Human Neural Stem Cells. Stem Cells, 2019, 37, 1429-1440.	3.2	6
7	Automated real-time monitoring of human pluripotent stem cell aggregation in stirred tank reactors. Scientific Reports, 2019, 9, 12297.	3.3	30
8	Nanopype: a modular and scalable nanopore data processing pipeline. Bioinformatics, 2019, 35, 4770-4772.	4.1	8
9	Analysis of short tandem repeat expansions and their methylation state with nanopore sequencing. Nature Biotechnology, 2019, 37, 1478-1481.	17.5	117
10	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
11	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
12	Nanopore SimulatION â€“ a raw data simulator for Nanopore Sequencing. , 2018, , .		4
13	Generation of two human isogenic iPSC lines from fetal dermal fibroblasts. Stem Cell Research, 2018, 33, 120-124.	0.7	13
14	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
15	Assessment of established techniques to determine developmental and malignant potential of human pluripotent stem cells. Nature Communications, 2018, 9, 1925.	12.8	76
16	Sensory-Neuropathy-Causing Mutations in ATL3 Cause Aberrant ER Membrane Tethering. Cell Reports, 2018, 23, 2026-2038.	6.4	29
17	CryoPause: A New Method to Immediately Initiate Experiments after Cryopreservation of Pluripotent Stem Cells. Stem Cell Reports, 2017, 9, 355-365.	4.8	21
18	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

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19	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
20	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
21	Stem Cell Differentiation as a Non-Markov Stochastic Process. Cell Systems, 2017, 5, 268-282.e7.	6.2	178
22	Transcription factors, coregulators, and epigenetic marks are linearly correlated and highly redundant. PLoS ONE, 2017, 12, e0186324.	2.5	13
23	Principal components analysis and the reported low intrinsic dimensionality of gene expression microarray data. Scientific Reports, 2016, 6, 25696.	3.3	72
24	Utilizing Regulatory Networks for Pluripotency Assessment in Stem Cells. Current Stem Cell Reports, 2016, 2, 228-235.	1.6	0
25	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
26	Stem cell reprogramming: Basic implications and future perspective for movement disorders. Movement Disorders, 2015, 30, 301-312.	3.9	5
27	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
28	Improved retroviral episome transfer of transcription factors enables sustained cell fate modification. Gene Therapy, 2014, 21, 938-949.	4.5	12
29	A compass for stem-cell differentiation. Nature, 2014, 513, 498-499.	27.8	5
30	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
31	A Phenotypic Screening Approach to Identify Anticancer Compounds Derived from Marine Fungi. Assay and Drug Development Technologies, 2014, 12, 162-175.	1.2	9
32	Assessment of human pluripotent stem cells with PluriTest. Stembook, 2014, , .	0.3	4
33	Reconsidering pluripotency tests: Do we still need teratoma assays?. Stem Cell Research, 2013, 11, 552-562.	0.7	76
34	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
35	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
36	Power-Laws and the Use of Pluripotent Stem Cell Lines. PLoS ONE, 2013, 8, e52068.	2.5	6

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37	PhysioSpace: Relating Gene Expression Experiments from Heterogeneous Sources Using Shared Physiological Processes. PLoS ONE, 2013, 8, e77627.	2.5	17
38	Differentiation of Human Pluripotent Stem Cells into Neural Precursors. , 2012, , 375-384.		0
39	PluriTest Molecular Diagnostic Assay for Pluripotency in Human Stem Cells. , 2012, , 293-311.		0
40	Small molecules enable highly efficient neuronal conversion of human fibroblasts. Nature Methods, 2012, 9, 575-578.	19.0	288
41	Recurrent Variations in DNA Methylation in Human Pluripotent Stem Cells and Their Differentiated Derivatives. Cell Stem Cell, 2012, 10, 620-634.	11.1	352
42	Scope and Impact of International Research in Human Pluripotent Stem Cells. Stem Cell Reviews and Reports, 2012, 8, 1048-1055.	5.6	7
43	Nanog-dependent feedback loops regulate murine embryonic stem cell heterogeneity. Nature Cell Biology, 2012, 14, 1139-1147.	10.3	141
44	Induced pluripotent stem cells from hair follicles as a cellular model for neurodevelopmental disorders. Stem Cell Research, 2012, 8, 134-140.	0.7	64
45	What Can Networks Do for You?. , 2012, , 173-194.		0
46	Basic Approaches to Gene Expression Analysis of Stem Cells by Microarrays. Methods in Molecular Biology, 2011, 767, 269-282.	0.9	1
47	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
48	A bioinformatic assay for pluripotency in human cells. Nature Methods, 2011, 8, 315-317.	19.0	410
49	The author file: Jeanne Loring and Franz-Josef MÃ¼ller. Nature Methods, 2011, 8, 275-275.	19.0	0
50	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
51	Few inputs can reprogram biological networks. Nature, 2011, 478, E4-E4.	27.8	96
52	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
53	Focal Lesions of Human Hippocampal CA1 Neurons in Transient Global Amnesia Impair Place Memory. Science, 2010, 328, 1412-1415.	12.6	169
54	Search strategies in a human water maze analogue analyzed with automatic classification methods. Behavioural Brain Research, 2010, 208, 169-177.	2.2	20

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55	A Call to Standardize Teratoma Assays Used to Define Human Pluripotent Cell Lines. Cell Stem Cell, 2010, 6, 412-414.	11.1	121
56	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
57	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
58	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
59	Differentiation of neural lineage cells from human pluripotent stem cells. Methods, 2008, 45, 142-158.	3.8	68
60	Regulatory networks define phenotypic classes of human stem cell lines. Nature, 2008, 455, 401-405.	27.8	321
61	Neural Stem Cell Transplantation in Mouse Brain. Current Protocols in Neuroscience, 2008, 42, Unit 3.10.	2.6	21
62	Stem cells act through multiple mechanisms to benefit mice with neurodegenerative metabolic disease. Nature Medicine, 2007, 13, 439-447.	30.7	293
63	Neural Stem Cell Therapy in Lysosomal Storage Disorders. , 2007, , 197-216.		0
64	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
65	Gene therapy: can neural stem cells deliver?. Nature Reviews Neuroscience, 2006, 7, 75-84.	10.2	275
66	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
67	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
68	Alzheimer: Stem Cell Therapies for Neurodegenerative Disease: How Should We Push Ahead?. Journal of Alzheimer's Disease, 2005, 8, 75-80.	2.6	1
69	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
70	Stem cells: crossâ€“talk and developmental programs. Philosophical Transactions of the Royal Society B: Biological Sciences, 2004, 359, 823-837.	4.0	52