Stevens Rehen

List of Publications by Year
in descending order

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Version: 2024-02-01

115 papers	5,856 citations	109137 35 h-index	82410 72 g-index
144 all docs	144 docs citations	144 times ranked	8803 citing authors

#	Article	IF	Citations
1	Zika virus impairs growth in human neurospheres and brain organoids. Science, 2016, 352, 816-818.	6.0	1,016
2	Chromosomal variation in neurons of the developing and adult mammalian nervous system. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 13361-13366.	3.3	295
3	Constitutional Aneuploidy in the Normal Human Brain. Journal of Neuroscience, 2005, 25, 2176-2180.	1.7	283
4	Non-proliferative effects of lysophosphatidic acid enhance cortical growth and folding. Nature Neuroscience, 2003, 6, 1292-1299.	7.1	234
5	Chloroquine, an Endocytosis Blocking Agent, Inhibits Zika Virus Infection in Different Cell Models. Viruses, 2016, 8, 322.	1.5	227
6	The clinically approved antiviral drug sofosbuvir inhibits Zika virus replication. Scientific Reports, 2017, 7, 40920.	1.6	167
7	The spectrum of neuropathological changes associated with congenital Zika virus infection. Acta Neuropathologica, 2017, 133, 983-999.	3.9	155
8	Aneuploid neurons are functionally active and integrated into brain circuitry. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 6143-6147.	3.3	153
9	Apoptosis in developing retinal tissue. Progress in Retinal and Eye Research, 1999, 18, 133-165.	7.3	152
10	Altered Oxygen Metabolism Associated to Neurogenesis of Induced Pluripotent Stem Cells Derived from a Schizophrenic Patient. Cell Transplantation, 2012, 21, 1547-1559.	1.2	150
11	Lysophosphatidic Acid Influences the Morphology and Motility of Young, Postmitotic Cortical Neurons. Molecular and Cellular Neurosciences, 2002, 20, 271-282.	1.0	134
12	Zika virus disrupts molecular fingerprinting of human neurospheres. Scientific Reports, 2017, 7, 40780.	1.6	120
13	Chromosome Segregation Defects Contribute to Aneuploidy in Normal Neural Progenitor Cells. Journal of Neuroscience, 2003, 23, 10454-10462.	1.7	116
14	Genomic mosaicism with increased amyloid precursor protein (APP) gene copy number in single neurons from sporadic Alzheimer's disease brains. ELife, 2015, 4, .	2.8	114
15	Alteration of Gene Expression by Chromosome Loss in the Postnatal Mouse Brain. Journal of Neuroscience, 2003, 23, 5599-5606.	1.7	112
16	Successful scale-up of human embryonic stem cell production in a stirred microcarrier culture system. Brazilian Journal of Medical and Biological Research, 2009, 42, 515-522.	0.7	105
17	Zika virus infection leads to mitochondrial failure, oxidative stress and DNA damage in human iPSC-derived astrocytes. Scientific Reports, 2020, 10, 1218.	1.6	95
18	Short term changes in the proteome of human cerebral organoids induced by 5-MeO-DMT. Scientific Reports, 2017, 7, 12863.	1.6	87

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19	Derivation of Functional Human Astrocytes from Cerebral Organoids. Scientific Reports, 2017, 7, 45091.	1.6	75
20	Human Dental Pulp Cells: A New Source of Cell Therapy in a Mouse Model of Compressive Spinal Cord Injury. Journal of Neurotrauma, 2011, 28, 1939-1949.	1.7	72
21	Lysophosphatidic Acid Receptor-dependent Secondary Effects via Astrocytes Promote Neuronal Differentiation. Journal of Biological Chemistry, 2008, 283, 7470-7479.	1.6	71
22	Beyond Members of the Flaviviridae Family, Sofosbuvir Also Inhibits Chikungunya Virus Replication. Antimicrobial Agents and Chemotherapy, 2019, 63, .	1.4	69
23	Failed Clearance of Aneuploid Embryonic Neural Progenitor Cells Leads to Excess Aneuploidy in the Atm-Deficient But Not the Trp53-Deficient Adult Cerebral Cortex. Journal of Neuroscience, 2004, 24, 8090-8096.	1.7	66
24	In vitro antiviral activity of the anti-HCV drugs daclatasvir and sofosbuvir against SARS-CoV-2, the aetiological agent of COVID-19. Journal of Antimicrobial Chemotherapy, 2021, 76, 1874-1885.	1.3	65
25	Harmine stimulates proliferation of human neural progenitors. PeerJ, 2016, 4, e2727.	0.9	64
26	Normal Human Pluripotent Stem Cell Lines Exhibit Pervasive Mosaic Aneuploidy. PLoS ONE, 2011, 6, e23018.	1.1	61
27	Aneuploid Cells Are Differentially Susceptible to Caspase-Mediated Death during Embryonic Cerebral Cortical Development. Journal of Neuroscience, 2012, 32, 16213-16222.	1.7	58
28	Human Cerebral Organoids and Fetal Brain Tissue Share Proteomic Similarities. Frontiers in Cell and Developmental Biology, 2019, 7, 303.	1.8	58
29	Accelerating neuronal aging in in vitro model brain disorders: a focus on reactive oxygen species. Frontiers in Aging Neuroscience, 2014, 6, 292.	1.7	50
30	Astrocytes treated by lysophosphatidic acid induce axonal outgrowth of cortical progenitors through extracellular matrix protein and epidermal growth factor signaling pathway. Journal of Neurochemistry, 2011, 119, 113-123.	2.1	45
31	Co-expression network of neural-differentiation genes shows specific pattern in schizophrenia. BMC Medical Genomics, 2015, 8, 23.	0.7	45
32	Glioblastoma cells inhibit astrocytic p53-expression favoring cancer malignancy. Oncogenesis, 2014, 3, e123-e123.	2.1	44
33	hiPSC-derived neural stem cells from patients with schizophrenia induce an impaired angiogenesis. Translational Psychiatry, 2018, 8, 48.	2.4	42
34	Agathisflavone Enhances Retinoic Acid-Induced Neurogenesis and Its Receptors Î± and Î² in Pluripotent Stem Cells. Stem Cells and Development, 2011, 20, 1711-1721.	1.1	39
35	Mitomycin-treated undifferentiated embryonic stem cells as a safe and effective therapeutic strategy in a mouse model of ParkinsonÃ¢â‚¬â„¢s disease. Frontiers in Cellular Neuroscience, 2015, 9, 97.	1.8	39
36	Predifferentiated embryonic stem cells promote functional recovery after spinal cord compressive injury. Brain Research, 2010, 1349, 115-128.	1.1	38

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37	Valproate reverts zinc and potassium imbalance in schizophrenia-derived reprogrammed cells. Schizophrenia Research, 2014, 154, 30-35.	1.1	35
38	Selective sensitivity of early postmitotic retinal cells to apoptosis induced by inhibition of protein synthesis. European Journal of Neuroscience, 1999, 11, 4349-4356.	1.2	34
39	Xeno-Free Production of Human Embryonic Stem Cells in Stirred Microcarrier Systems Using a Novel Animal/Human-Component-Free Medium. Tissue Engineering - Part C: Methods, 2013, 19, 146-155.	1.1	33
40	Generation of iPSC-Derived Human Peripheral Sensory Neurons Releasing Substance P Elicited by TRPV1 Agonists. Frontiers in Molecular Neuroscience, 2018, 11, 277.	1.4	33
41	Automatic embryonic stem cells detection and counting method in fluorescence microscopy images. , 2009, , .		32
42	Murine Model for Parkinson's Disease: from 6-OH Dopamine Lesion to Behavioral Test. Journal of Visualized Experiments, 2010, , .	0.2	31
43	Retinoic Acid-Treated Pluripotent Stem Cells Undergoing Neurogenesis Present Increased Aneuploidy and Micronuclei Formation. PLoS ONE, 2011, 6, e20667.	1.1	31
44	Computational fluid dynamic analysis of physical forces playing a role in brain organoid cultures in two different multiplex platforms. BMC Developmental Biology, 2019, 19, 3.	2.1	31
45	Genetics and cell biology of lysophosphatidic acid receptor-mediated signaling during cortical neurogenesis. Journal of Cellular Biochemistry, 2004, 92, 1004-1012.	1.2	30
46	Short and long TNFâ€alpha exposure recapitulates canonical astrogliosis events in humanâ€induced pluripotent stem cellsâ€derived astrocytes. Glia, 2020, 68, 1396-1409.	2.5	30
47	The cyanobacterial saxitoxin exacerbates neural cell death and brain malformations induced by Zika virus. PLoS Neglected Tropical Diseases, 2020, 14, e0008060.	1.3	28
48	Case Report: SARS-CoV-2 Mother-to-Child Transmission and Fetal Death Associated With Severe Placental Thromboembolism. Frontiers in Medicine, 2021, 8, 677001.	1.2	27
49	Generation of urine iPS cell lines from patients with Attention Deficit Hyperactivity Disorder (ADHD) using a non-integrative method. Stem Cell Research, 2016, 17, 102-106.	0.3	25
50	Developmentally regulated release of intraretinal neurotrophic factorsin vitro. International Journal of Developmental Neuroscience, 1997, 15, 239-255.	0.7	24
51	Chromosomal Spread Preparation of Human Embryonic Stem Cells for Karyotyping. Journal of Visualized Experiments, 2009, , .	0.2	22
52	Implications of aneuploidy for stem cell biology and brain therapeutics. Frontiers in Cellular Neuroscience, 2012, 6, 36.	1.8	21
53	Worldwide Survey of Published Procedures to Culture Human Embryonic Stem Cells. Cell Transplantation, 2010, 19, 509-523.	1.2	19
54	Sphingosine 1â€phosphateâ€primed astrocytes enhance differentiation of neuronal progenitor cells. Journal of Neuroscience Research, 2012, 90, 1892-1902.	1.3	19

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55	LPA-primed astrocytes induce axonal outgrowth of cortical progenitors by activating PKA signaling pathways and modulating extracellular matrix proteins. Frontiers in Cellular Neuroscience, 2014, 8, 296.	1.8	19
56	Non-permissive SARS-CoV-2 infection in human neurospheres. Stem Cell Research, 2021, 54, 102436.	0.3	19
57	The Age of Brain Organoids: Tailoring Cell Identity and Functionality for Normal Brain Development and Disease Modeling. Frontiers in Neuroscience, 2021, 15, 674563.	1.4	18
58	SARS-CoV-2 infection of the central nervous system in a 14-month-old child: A case report of a complete autopsy. The Lancet Regional Health Americas, 2021, 2, 100046.	1.5	18
59	Murine dopaminergic MÃ¼ller cells restore motor function in a model of Parkinson's disease. Journal of Neurochemistry, 2014, 128, 829-840.	2.1	17
60	Commitment of human pluripotent stem cells to a neural lineage is induced by the pro-estrogenic flavonoid apigenin. Advances in Regenerative Biology, 2015, 2, 29244.	0.2	17
61	Trace elements during primordial plexiform network formation in human cerebral organoids. PeerJ, 2017, 5, e2927.	0.9	17
62	Maintenance of pluripotency in mouse embryonic stem cells cultivated in stirred microcarrier cultures. Biotechnology Progress, 2010, 26, 548-555.	1.3	16
63	A graph-mining algorithm for automatic detection and counting of embryonic stem cells in fluorescence microscopy images. Integrated Computer-Aided Engineering, 2011, 18, 91-106.	2.5	16
64	Low oxygen alters mitochondrial function and response to oxidative stress in human neural progenitor cells. PeerJ, 2015, 3, e1486.	0.9	16
65	Generation and characterization of a human induced pluripotent stem (iPS) cell line derived from an acute myeloid leukemia patient evolving from primary myelofibrosis carrying the CALR 52 bp deletion and the ASXL1 p.R693X mutation. Stem Cell Research, 2017, 24, 16-20.	0.3	15
66	Dynamic expression of synemin isoforms in mouse embryonic stem cells and neural derivatives. BMC Cell Biology, 2011, 12, 51.	3.0	14
67	Pluripotent stem cells as a model to study oxygen metabolism in neurogenesis and neurodevelopmental disorders. Archives of Biochemistry and Biophysics, 2013, 534, 3-10.	1.4	14
68	Matrix-bound heparan sulfate is essential for the growth and pluripotency of human embryonic stem cells. Glycobiology, 2013, 23, 337-345.	1.3	14
69	Genetic switches designed for eukaryotic cells and controlled by serine integrases. Communications Biology, 2020, 3, 255.	2.0	14
70	Generation of iPS cell lines from schizophrenia patients using a non-integrative method. Stem Cell Research, 2016, 17, 97-101.	0.3	13
71	Short-Term Withdrawal of Mitogens Prior to Plating Increases Neuronal Differentiation of Human Neural Precursor Cells. PLoS ONE, 2009, 4, e4642.	1.1	12
72	A new method of embryonic culture for assessing global changes in brain organization. Journal of Neuroscience Methods, 2006, 158, 100-108.	1.3	11

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73	Analysis of Pluripotent Stem Cells by using Cryosections of Embryoid Bodies. Journal of Visualized Experiments, 2010, , .	0.2	11
74	Cannabinoids modulate cell survival in embryoid bodies. Cell Biology International, 2010, 34, 399-408.	1.4	11
75	Nootropic effects of LSD: Behavioral, molecular and computational evidence. Experimental Neurology, 2022, 356, 114148.	2.0	11
76	Differentiation-dependent sensitivity to cell death induced in the developing retina by inhibitors of the ubiquitin-proteasome proteolytic pathway. European Journal of Neuroscience, 2001, 13, 1938-1944.	1.2	10
77	Synchrotron Radiation X-Ray Microfluorescence Reveals Polarized Distribution of Atomic Elements during Differentiation of Pluripotent Stem Cells. PLoS ONE, 2011, 6, e29244.	1.1	10
78	Differential effects of cyclin-dependent kinase blockers upon cell death in the developing retina. Brain Research, 2002, 947, 78-83.	1.1	9
79	Deformation of Mitochondrial Cristae in Human Neural Progenitor Cells Exposed to Valproic Acid. Anais Da Academia Brasileira De Ciencias, 2018, 90, 2223-2232.	0.3	9
80	New tetrodotoxin analogs in Brazilian pufferfishes tissues and microbiome. Chemosphere, 2020, 242, 125211.	4.2	9
81	Schizophrenia-derived hiPSC brain microvascular endothelial-like cells show impairments in angiogenesis and bloodâ€“brain barrier function. Molecular Psychiatry, 2022, 27, 3708-3718.	4.1	9
82	2,4-dinitrophenol induces neural differentiation of murine embryonic stem cells. Stem Cell Research, 2013, 11, 1407-1416.	0.3	8
83	Stem cell research in Latin America: update, challenges and opportunities in a priority research area. Regenerative Medicine, 2015, 10, 785-798.	0.8	8
84	Combining Patient-Reprogrammed Neural Cells and Proteomics as a Model to Study Psychiatric Disorders. Advances in Experimental Medicine and Biology, 2017, 974, 279-287.	0.8	8
85	7-Deaza-7-fluoro-2â€²-C-methyladenosine inhibits Zika virus infection and viral-induced neuroinflammation. Antiviral Research, 2020, 180, 104855.	1.9	8
86	DYRK1A Regulates the Bidirectional Axonal Transport of APP in Human-Derived Neurons. Journal of Neuroscience, 2022, 42, 6344-6358.	1.7	8
87	Generation of urine iPS cell line from a patient with obsessive-compulsive disorder using a non-integrative method. Stem Cell Research, 2016, 17, 107-110.	0.3	7
88	Valproate Disturbs Morphology and Mitochondrial Membrane Potential in Human Neural Cells. Applied in Vitro Toxicology, 2015, 1, 254-261.	0.6	6
89	Inhibition of pRB Pathway Differentially Modulates Apoptosis in Esophageal Cancer Cells. Translational Oncology, 2017, 10, 726-733.	1.7	6
90	Quantitative profiling of axonal guidance proteins during the differentiation of human neurospheres. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2021, 1869, 140656.	1.1	6

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91	Specific Cytostatic and Cytotoxic Effect of Dihydrochelerythrine in Glioblastoma Cells: Role of NF-Î²B/Î²-catenin and STAT3/IL-6 Pathways. Anti-Cancer Agents in Medicinal Chemistry, 2019, 18, 1386-1393.	0.9	6
92	TET2 haploinsufficiency alters reprogramming into induced pluripotent stem cells. Stem Cell Research, 2020, 44, 101755.	0.3	5
93	WIN 55,212-2 shows anti-inflammatory and survival properties in human iPSC-derived cardiomyocytes infected with SARS-CoV-2. PeerJ, 2021, 9, e12262.	0.9	5
94	Inhibition of SARS-CoV-2 infection in human iPSC-derived cardiomyocytes by targeting the Sigma-1 receptor disrupts cytoarchitecture and beating. PeerJ, 2021, 9, e12595.	0.9	5
95	Dealing with reusability and reproducibility for scientific workflows. , 2011, , .		3
96	Cycle arrest and aneuploidy induced by zidovudine in murine embryonic stem cells. Mutagenesis, 2012, 27, 431-436.	1.0	3
97	Characterization of a human induced Pluripotent Stem (iPS) cell line (INCABRi002-A) derived from a primary myelofibrosis patient harboring the 5-bp insertion in CALR and the p.W146X mutation in TP53. Stem Cell Research, 2018, 33, 130-134.	0.3	3
98	A Protocol to Study Mitochondrial Function in Human Neural Progenitors and iPSCâ€Derived Astrocytes. Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al], 2020, 85, e97.	1.1	3
99	Dopamine signaling impairs ROS modulation by mitochondrial hexokinase in human neural progenitor cells. Bioscience Reports, 2021, 41, .	1.1	3
100	Scientific aid to Brazil is strangled by red tape. Nature, 2004, 428, 601-601.	13.7	2
101	Spectral Karyotyping and Fluorescent in situ Hybridization. , 2007, , 71-84.		2
102	Genetic Mosaicism in the Brain: A New Paradigm for Neuronal Diversity. Directions in Science, 2002, 1, 53-55.	0.1	2
103	Microbiome associated with the tetrodotoxin-bearing anuran Brachycephalus pitanga. Toxicon, 2021, 203, 139-146.	0.8	2
104	Oligomeric Î±-Synuclein induces skin degeneration in reconstructed human epidermis. Neurobiology of Aging, 2022, 113, 108-117.	1.5	2
105	Zika Virus Strains and Dengue Virus Induce Distinct Proteomic Changes in Neural Stem Cells and Neurospheres. Molecular Neurobiology, 2022, 59, 5549-5563.	1.9	2
106	Role of neuronâ€“glia interactions in nervous system development: highlights on radial glia and astrocytes. Advances in Molecular and Cell Biology, 2003, 31, 97-125.	0.1	1
107	Human-specific approaches to brain research for the 21st century: a South American perspective. Drug Discovery Today, 2018, 23, 1929-1935.	3.2	1
108	Aneuploidy in Embryonic Stem Cells. , 2010, , 73-86.		1

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109	Lysophosphatidic acid receptor-dependent secondary effects via astrocytes promote neuronal differentiation.. Journal of Biological Chemistry, 2009, 284, 36720.	1.6	0
110	17-P006 Human embryonic stem cells cultured onto MEF-derived organized extracellular matrix are pluripotent and form embryoid bodies. Mechanisms of Development, 2009, 126, S272.	1.7	0
111	Neural induced embryoid bodies present high levels of metals detected by x-ray microfluorescence. , 2012, , .		0
112	Stellate cells and liver parenchyma gene transcription changes after stem cells therapy in experimental liver fibrosis and cirrhosis. Cytotherapy, 2014, 16, S98-S99.	0.3	0
113	F172. Subcellular Proteome Analysis of iPSC-Derived Neural Cells From Schizophrenia Patients Reveals Alterations Related to Neurodevelopment. Biological Psychiatry, 2019, 85, S279-S280.	0.7	0
114	Cell Death. , 2006, , 73-90.		0
115	Proteome analysis of neural stem cells and neurospheres infected with Zika Virus. , 0, , .		0