

Jared Sternecker

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,649
citations

159585

30
h-index

182427

51
g-index

55
all docs

55
docs citations

55
times ranked

7881
citing authors

#	ARTICLE	IF	CITATIONS
1	RNA buffers the phase separation behavior of prion-like RNA binding proteins. <i>Science</i> , 2018, 360, 918-921.	12.6	837
2	Genetic Correction of a LRRK2 Mutation in Human iPSCs Links Parkinsonian Neurodegeneration to ERK-Dependent Changes in Gene Expression. <i>Cell Stem Cell</i> , 2013, 12, 354-367.	11.1	448
3	Derivation and Expansion Using Only Small Molecules of Human Neural Progenitors for Neurodegenerative Disease Modeling. <i>PLoS ONE</i> , 2013, 8, e59252.	2.5	370
4	Conserved and Divergent Roles of FGF Signaling in Mouse Epiblast Stem Cells and Human Embryonic Stem Cells. <i>Cell Stem Cell</i> , 2010, 6, 215-226.	11.1	308
5	HDAC6 inhibition reverses axonal transport defects in motor neurons derived from FUS-ALS patients. <i>Nature Communications</i> , 2017, 8, 861.	12.8	275
6	Impaired DNA damage response signaling by FUS-NLS mutations leads to neurodegeneration and FUS aggregate formation. <i>Nature Communications</i> , 2018, 9, 335.	12.8	217
7	Rapid and efficient generation of oligodendrocytes from human induced pluripotent stem cells using transcription factors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2243-E2252.	7.1	189
8	C9ORF72 interaction with cofilin modulates actin dynamics in motor neurons. <i>Nature Neuroscience</i> , 2016, 19, 1610-1618.	14.8	131
9	Human iPSC models of neuronal ceroid lipofuscinosis capture distinct effects of TPP1 and CLN3 mutations on the endocytic pathway. <i>Human Molecular Genetics</i> , 2014, 23, 2005-2022.	2.9	121
10	4-Aminopyridine Induced Activity Rescues Hypoexcitable Motor Neurons from Amyotrophic Lateral Sclerosis Patient-Derived Induced Pluripotent Stem Cells. <i>Stem Cells</i> , 2016, 34, 1563-1575.	3.2	109
11	Distinct Developmental Ground States of Epiblast Stem Cell Lines Determine Different Pluripotency Features. <i>Stem Cells</i> , 2011, 29, 1496-1503.	3.2	98
12	Concise Review: Oct4 and More: The Reprogramming Expressway. <i>Stem Cells</i> , 2012, 30, 15-21.	3.2	98
13	Isogenic FUS-eGFP iPSC Reporter Lines Enable Quantification of FUS Stress Granule Pathology that Is Rescued by Drugs Inducing Autophagy. <i>Stem Cell Reports</i> , 2018, 10, 375-389.	4.8	95
14	FUS pathology in ALS is linked to alterations in multiple ALS-associated proteins and rescued by drugs stimulating autophagy. <i>Acta Neuropathologica</i> , 2019, 138, 67-84.	7.7	94
15	Distinct Neurodegenerative Changes in an Induced Pluripotent Stem Cell Model of Frontotemporal Dementia Linked to Mutant TAU Protein. <i>Stem Cell Reports</i> , 2015, 5, 83-96.	4.8	82
16	Astrocyte pathology in a human neural stem cell model of frontotemporal dementia caused by mutant TAU protein. <i>Scientific Reports</i> , 2017, 7, 42991.	3.3	76
17	Discovery of Inhibitors of Microglial Neurotoxicity Acting Through Multiple Mechanisms Using a Stem-Cell-Based Phenotypic Assay. <i>Cell Stem Cell</i> , 2012, 11, 620-632.	11.1	75
18	Discovery of Neuritogenic Compound Classes Inspired by Natural Products. <i>Angewandte Chemie - International Edition</i> , 2013, 52, 9576-9581.	13.8	72

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19	Stepwise acquirement of hallmark neuropathology in FUS-ALS iPSC models depends on mutation type and neuronal aging. <i>Neurobiology of Disease</i> , 2015, 82, 420-429.	4.4	59
20	iPS cell derived neuronal cells for drug discovery. <i>Trends in Pharmacological Sciences</i> , 2014, 35, 510-519.	8.7	57
21	Dynarrestin, a Novel Inhibitor of Cytoplasmic Dynein. <i>Cell Chemical Biology</i> , 2018, 25, 357-369.e6.	5.2	56
22	Knocking out C9ORF72 Exacerbates Axonal Trafficking Defects Associated with Hexanucleotide Repeat Expansion and Reduces Levels of Heat Shock Proteins. <i>Stem Cell Reports</i> , 2020, 14, 390-405.	4.8	48
23	Highly Enantioselective Catalytic Synthesis of Neurite Growth-Promoting Secoyohimbanes. <i>Chemistry and Biology</i> , 2013, 20, 500-509.	6.0	47
24	Dual Inhibition of GSK3 β and CDK5 Protects the Cytoskeleton of Neurons from Neuroinflammatory-Mediated Degeneration In Vitro and In Vivo. <i>Stem Cell Reports</i> , 2019, 12, 502-517.	4.8	45
25	Origin-Dependent Neural Cell Identities in Differentiated Human iPSCs In Vitro and after Transplantation into the Mouse Brain. <i>Cell Reports</i> , 2014, 8, 1697-1703.	6.4	41
26	Hsp90 α -mediated regulation of DYRK3 couples stress granule disassembly and growth via mTORC1 signaling. <i>EMBO Reports</i> , 2021, 22, e51740.	4.5	41
27	Neuronal Dysfunction in iPSC-Derived Medium Spiny Neurons from Chorea-Acanthocytosis Patients Is Reversed by Src Kinase Inhibition and F-Actin Stabilization. <i>Journal of Neuroscience</i> , 2016, 36, 12027-12043.	3.6	40
28	Altered calcium dynamics and glutamate receptor properties in iPSC-derived motor neurons from ALS patients with C9orf72, FUS, SOD1 or TDP43 mutations. <i>Human Molecular Genetics</i> , 2019, 28, 2835-2850.	2.9	39
29	Neural Induction Intermediates Exhibit Distinct Roles of Fgf Signaling. <i>Stem Cells</i> , 2010, 28, 1772-1781.	3.2	35
30	Assimilation of Nicotinamide Mononucleotide Requires Periplasmic AphA Phosphatase in <i>Salmonella enterica</i> . <i>Journal of Bacteriology</i> , 2005, 187, 4521-4530.	2.2	31
31	Muscleblind acts as a modifier of FUS toxicity by modulating stress granule dynamics and SMN localization. <i>Nature Communications</i> , 2019, 10, 5583.	12.8	31
32	A customizable microfluidic platform for medium-throughput modeling of neuromuscular circuits. <i>Biomaterials</i> , 2019, 225, 119537.	11.4	24
33	Discovery of a Novel Inhibitor of the Hedgehog Signaling Pathway through Cell-based Compound Discovery and Target Prediction. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 13021-13025.	13.8	22
34	Molecular and Functional Analyses of Motor Neurons Generated from Human Cord-Blood-Derived Induced Pluripotent Stem Cells. <i>Stem Cells and Development</i> , 2014, 23, 3011-3020.	2.1	20
35	Generation of iPSCs carrying a common LRRK2 risk allele for in vitro modeling of idiopathic Parkinson's disease. <i>PLoS ONE</i> , 2018, 13, e0192497.	2.5	20
36	Viral Infections Exacerbate FUS-ALS Phenotypes in iPSC-Derived Spinal Neurons in a Virus Species-Specific Manner. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 480.	3.7	19

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37	A selectable all-in-one CRISPR prime editing piggyBac transposon allows for highly efficient gene editing in human cell lines. <i>Scientific Reports</i> , 2021, 11, 22154.	3.3	19
38	Leucine-Rich Repeat Kinase 2 Influences Fate Decision of Human Monocytes Differentiated from Induced Pluripotent Stem Cells. <i>PLoS ONE</i> , 2016, 11, e0165949.	2.5	18
39	Defective mitochondrial and lysosomal trafficking in chorea-acanthocytosis is independent of Src-kinase signaling. <i>Molecular and Cellular Neurosciences</i> , 2018, 92, 137-148.	2.2	14
40	Combined Dendritic and Axonal Deterioration Are Responsible for Motoneuronopathy in Patient-Derived Neuronal Cell Models of Chorea-Acanthocytosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 1797.	4.1	12
41	Primary Spinal OPC Culture System from Adult Zebrafish to Study Oligodendrocyte Differentiation In Vitro. <i>Frontiers in Cellular Neuroscience</i> , 2017, 11, 284.	3.7	11
42	Genome Wide Analysis Points towards Subtype-Specific Diseases in Different Genetic Forms of Amyotrophic Lateral Sclerosis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 6938.	4.1	11
43	Concomitant gain and loss of function pathomechanisms in C9ORF72 amyotrophic lateral sclerosis. <i>Life Science Alliance</i> , 2021, 4, e202000764.	2.8	11
44	Alteration of Mitochondrial Integrity as Upstream Event in the Pathophysiology of SOD1-ALS. <i>Cells</i> , 2022, 11, 1246.	4.1	11
45	Discovery of the Hedgehog Pathway Inhibitor Pipinib that Targets PI4KIII β . <i>Angewandte Chemie - International Edition</i> , 2019, 58, 16617-16628.	13.8	10
46	Discovery of a Novel Inhibitor of the Hedgehog Signaling Pathway through Cell-Based Compound Discovery and Target Prediction. <i>Angewandte Chemie</i> , 2017, 129, 13201-13205.	2.0	7
47	Human Spinal Motor Neurons Are Particularly Vulnerable to Cerebrospinal Fluid of Amyotrophic Lateral Sclerosis Patients. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3564.	4.1	7
48	Discovery of the Hedgehog Pathway Inhibitor Pipinib that Targets PI4KIII β . <i>Angewandte Chemie</i> , 2019, 131, 16770-16781.	2.0	4
49	Phenotypic Screening Using Mouse and Human Stem Cell-Based Models of Neuroinflammation and Gene Expression Analysis to Study Drug Responses. <i>Methods in Molecular Biology</i> , 2019, 1888, 21-43.	0.9	3
50	FUS Is Not Mislocalized in Spinal Motor Neurons Derived From Human Induced Pluripotent Stem Cells of Main Non-FUS ALS Subtypes. <i>Journal of Neuropathology and Experimental Neurology</i> , 2021, 80, 720-722.	1.7	1