Eva Hedlund

List of Publications by Year
in descending order

55 papers	4,503 citations	159585 30 h-index	155660 55 g-index
61 all docs	61 docs citations	61 times ranked	6615 citing authors

#	Article	IF	Citations
1	Neurons derived from reprogrammed fibroblasts functionally integrate into the fetal brain and improve symptoms of rats with Parkinson's disease. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5856-5861.	7.1	1,129
2	Single-cell RNA sequencing: Technical advancements and biological applications. Molecular Aspects of Medicine, 2018, 59, 36-46.	6.4	258
3	Motor neuron vulnerability and resistance in amyotrophic lateral sclerosis. Acta Neuropathologica, 2017, 133, 863-885.	7.7	248
4	Laser capture microscopy coupled with Smart-seq2 for precise spatial transcriptomic profiling. Nature Communications, 2016, 7, 12139.	12.8	246
5	A radical switch in clonality reveals a stem cell niche in the epiphyseal growth plate. Nature, 2019, 567, 234-238.	27.8	153
6	The homeodomain transcription factor Pitx3 facilitates differentiation of mouse embryonic stem cells into AHD2-expressing dopaminergic neurons. Molecular and Cellular Neurosciences, 2005, 28, 241-252.	2.2	138
7	Genetic selection of sox1GFPâ€expressing neural precursors removes residual tumorigenic pluripotent stem cells and attenuates tumor formation after transplantation. Journal of Neurochemistry, 2006, 97, 1467-1480.	3.9	137
8	Embryonic Stem Cell-Derived Pitx3-Enhanced Green Fluorescent Protein Midbrain Dopamine Neurons Survive Enrichment by Fluorescence-Activated Cell Sorting and Function in an Animal Model of Parkinson's Disease. Stem Cells, 2008, 26, 1526-1536.	3.2	135
9	Cytochrome P450 in the Brain ; A Review. Current Drug Metabolism, 2001, 2, 245-263.	1.2	127
10	Specific and integrated roles of Lmx1a, Lmx1b and Phox2a in ventral midbrain development. Development (Cambridge), 2011, 138, 3399-3408.	2.5	119
11	Direct Reprogramming of Resident NG2 Glia into Neurons with Properties of Fast-Spiking Parvalbumin-Containing Interneurons. Stem Cell Reports, 2017, 9, 742-751.	4.8	98
12	Single-cell analyses of X Chromosome inactivation dynamics and pluripotency during differentiation. Genome Research, 2016, 26, 1342-1354.	5.5	93
13	Cellular therapy to target neuroinflammation in amyotrophic lateral sclerosis. Cellular and Molecular Life Sciences, 2014, 71, 999-1015.	5.4	89
14	Neurosteroid Hydroxylase CYP7B. Journal of Biological Chemistry, 2001, 276, 23937-23944.	3.4	80
15	Differential neuronal vulnerability identifies IGF-2 as a protective factor in ALS. Scientific Reports, 2016, 6, 25960.	3.3	80
16	Global gene expression profiling of somatic motor neuron populations with different vulnerability identify molecules and pathways of degeneration and protection. Brain, 2010, 133, 2313-2330.	7.6	78
17	Axon-Seq Decodes the Motor Axon Transcriptome and Its Modulation in Response to ALS. Stem Cell Reports, 2018, 11, 1565-1578.	4.8	72
18	Altered perivascular fibroblast activity precedes ALS disease onset. Nature Medicine, 2021, 27, 640-646.	30.7	69

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19	REVIEW ARTILCE: Cell therapy and stem cells in animal models of motor neuron disorders. European Journal of Neuroscience, 2007, 26, 1721-1737.	2.6	65
20	Transcription Factor-Induced Lineage Selection of Stem-Cell-Derived Neural Progenitor Cells. Cell Stem Cell, 2011, 8, 663-675.	11.1	65
21	Motor neurons with differential vulnerability to degeneration show distinct protein signatures in health and ALS. Neuroscience, 2015, 291, 216-229.	2.3	62
22	Fatal demyelinating disease is induced by monocyte-derived macrophages in the absence of TGF-Î² signaling. Nature Immunology, 2018, 19, 1-7.	14.5	62
23	Selection of Embryonic Stem Cell-Derived Enhanced Green Fluorescent Protein-Positive Dopamine Neurons Using the Tyrosine Hydroxylase Promoter Is Confounded by Reporter Gene Expression in Immature Cell Populations. Stem Cells, 2007, 25, 1126-1135.	3.2	59
24	Neuronal cell replacement in Parkinsonâ€™s disease. Journal of Internal Medicine, 2009, 266, 358-371.	6.0	59
25	Crossâ€disease comparison of amyotrophic lateral sclerosis and spinal muscular atrophy reveals conservation of selective vulnerability but differential neuromuscular junction pathology. Journal of Comparative Neurology, 2016, 524, 1424-1442.	1.6	58
26	LCM-Seq: A Method for Spatial Transcriptomic Profiling Using Laser Capture Microdissection Coupled with PolyA-Based RNA Sequencing. Methods in Molecular Biology, 2018, 1649, 95-110.	0.9	53
27	Aberrant interaction of FUS with the U1 snRNA provides a molecular mechanism of FUS induced amyotrophic lateral sclerosis. Nature Communications, 2020, 11, 6341.	12.8	47
28	Neurturin is a PGC-1Î±1-controlled myokine that promotes motor neuron recruitment and neuromuscular junction formation. Molecular Metabolism, 2018, 7, 12-22.	6.5	40
29	CRISPR-Trap: a clean approach for the generation of gene knockouts and gene replacements in human cells. Molecular Biology of the Cell, 2018, 29, 75-83.	2.1	37
30	Identification of aHoxd10-regulated transcriptional network and combinatorial interactions withHoxa10 during spinal cord development. Journal of Neuroscience Research, 2004, 75, 307-319.	2.9	34
31	Presymptomatic activation of the PDGF-CC pathway accelerates onset of ALS neurodegeneration. Acta Neuropathologica, 2016, 131, 453-464.	7.7	33
32	Region-specific cell grafting into cervical and lumbar spinal cord in rat: a qualitative and quantitative stereological study. Experimental Neurology, 2004, 190, 122-132.	4.1	30
33	Dopamine Receptor Antagonists Enhance Proliferation and Neurogenesis of Midbrain Lmx1a-expressing Progenitors. Scientific Reports, 2016, 6, 26448.	3.3	29
34	LCM-seq reveals unique transcriptional adaptation mechanisms of resistant neurons and identifies protective pathways in spinal muscular atrophy. Genome Research, 2020, 30, 1083-1096.	5.5	29
35	Differential Pax6 promoter activity and transcript expression during forebrain development. Mechanisms of Development, 2002, 114, 171-175.	1.7	28
36	Modeling Motor Neuron Resilience in ALS Using Stem Cells. Stem Cell Reports, 2019, 12, 1329-1341.	4.8	28

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37	Characterization of molecular mechanisms underlying the axonal Charcotâ€“Marieâ€“Tooth neuropathy caused by MORC2 mutations. Human Molecular Genetics, 2019, 28, 1629-1644.	2.9	28
38	Synaptotagmin 13 is neuroprotective across motor neuron diseases. Acta Neuropathologica, 2020, 139, 837-853.	7.7	28
39	L1 CAM expression is increased surrounding the lesion site in rats with complete spinal cord transection as neonates. Experimental Neurology, 2005, 194, 363-375.	4.1	26
40	Disrupted function of lactate transporter <scp>MCT1</scp>, but not <scp>MCT4</scp>, in Schwann cells affects the maintenance of motor endâ€plate innervation. Glia, 2021, 69, 124-136.	4.9	24
41	Spatial RNA Sequencing Identifies Robust Markers of Vulnerable and Resistant Human Midbrain Dopamine Neurons and Their Expression in Parkinsonâ€™s Disease. Frontiers in Molecular Neuroscience, 2021, 14, 699562.	2.9	24
42	Cytochrome P450 in the brain: 2B or not 2B. Trends in Pharmacological Sciences, 1998, 19, 82-85.	8.7	23
43	Radiation Triggers a Dynamic Sequence of Transient Microglial Alterations in Juvenile Brain. Cell Reports, 2020, 31, 107699.	6.4	23
44	Muscle-secreted neurturin couples myofiber oxidative metabolism and slow motor neuron identity. Cell Metabolism, 2021, 33, 2215-2230.e8.	16.2	22
45	Directed midbrain and spinal cord neurogenesis from pluripotent stem cells to model development and disease in a dish. Frontiers in Neuroscience, 2014, 8, 109.	2.8	22
46	Cytochrome P450 in the breast and brain: role in tissue-specific activation of xenobiotics. Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis, 1997, 376, 79-85.	1.0	20
47	ALS Model Glia Can Mediate Toxicity to Motor Neurons Derived from Human Embryonic Stem Cells. Cell Stem Cell, 2008, 3, 575-576.	11.1	19
48	A tyrosine hydroxylaseâ€“yellow fluorescent protein knock-in reporter system labeling dopaminergic neurons reveals potential regulatory role for the first intron of the rodent tyrosine hydroxylase gene. Neuroscience, 2006, 142, 343-354.	2.3	13
49	Selection Based on FOXA2 Expression Is Not Sufficient to Enrich for Dopamine Neurons From Human Pluripotent Stem Cells. Stem Cells Translational Medicine, 2014, 3, 1032-1042.	3.3	13
50	Cellular Programming and Reprogramming: Sculpting Cell Fate for the Production of Dopamine Neurons for Cell Therapy. Stem Cells International, 2012, 2012, 1-17.	2.5	11
51	The protective effects of beta-lactam antibiotics in motor neuron disorders. Experimental Neurology, 2011, 231, 14-18.	4.1	10
52	Intact single muscle fibres from SOD1^{G93A} amyotrophic lateral sclerosis mice display preserved specific force, fatigue resistance and trainingâ€like adaptations. Journal of Physiology, 2019, 597, 3133-3146.	2.9	8
53	Axon-seq for in Depth Analysis of the RNA Content of Neuronal Processes. Bio-protocol, 2019, 9, e3312.	0.4	6
54	Extrahepatic Cytochrome P450: Role in In Situ Toxicity and Cell-Specific Hormone Sensitivity. Archives of Toxicology Supplement, 1998, 20, 455-463.	0.7	5

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55	Axon-Seq Decodes the Motor Axon Transcriptome and Its Modulation in Response to ALS. SSRN Electronic Journal, 0, , .	0.4	0