Fraser J Sim

List of Publications by Year
in descending order

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44 papers	3,497 citations	201385 27 h-index	264894 42 g-index
48 all docs	48 docs citations	48 times ranked	4894 citing authors

#	Article	IF	Citations
1	The Age-Related Decrease in CNS Remyelination Efficiency Is Attributable to an Impairment of Both Oligodendrocyte Progenitor Recruitment and Differentiation. Journal of Neuroscience, 2002, 22, 2451-2459.	1.7	502
2	The Transcriptome and Metabolic Gene Signature of Protoplasmic Astrocytes in the Adult Murine Cortex. Journal of Neuroscience, 2007, 27, 12255-12266.	1.7	420
3	Macrophage depletion impairs oligodendrocyte remyelination following lysolecithin-induced demyelination. Glia, 2001, 35, 204-212.	2.5	357
4	Efficient Generation of Myelinating Oligodendrocytes from Primary Progressive Multiple Sclerosis Patients by Induced Pluripotent Stem Cells. Stem Cell Reports, 2014, 3, 250-259.	2.3	266
5	Non-Stem Cell Origin for Oligodendroglioma. Cancer Cell, 2010, 18, 669-682.	7.7	211
6	CD140a identifies a population of highly myelinogenic, migration-competent and efficiently engrafting human oligodendrocyte progenitor cells. Nature Biotechnology, 2011, 29, 934-941.	9.4	185
7	YAP and TAZ control peripheral myelination and the expression of laminin receptors in Schwann cells. Nature Neuroscience, 2016, 19, 879-887.	7.1	148
8	Complementary patterns of gene expression by human oligodendrocyte progenitors and their environment predict determinants of progenitor maintenance and differentiation. Annals of Neurology, 2006, 59, 763-779.	2.8	136
9	Hyaluronan accumulation and arrested oligodendrocyte progenitor maturation in vanishing white matter disease. Brain, 2013, 136, 209-222.	3.7	76
10	Transcriptional Differences between Normal and Glioma-Derived Glial Progenitor Cells Identify a Core Set of Dysregulated Genes. Cell Reports, 2013, 3, 2127-2141.	2.9	70
11	Anti-Muscarinic Adjunct Therapy Accelerates Functional Human Oligodendrocyte Repair. Journal of Neuroscience, 2015, 35, 3676-3688.	1.7	68
12	Neurocytoma Is a Tumor of Adult Neuronal Progenitor Cells. Journal of Neuroscience, 2006, 26, 12544-12555.	1.7	65
13	Endothelial cells express a unique transcriptional profile under very high wall shear stress known to induce expansive arterial remodeling. American Journal of Physiology - Cell Physiology, 2012, 302, C1109-C1118.	2.1	65
14	Transcription factor induction of human oligodendrocyte progenitor fate and differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2885-94.	3.3	65
15	Histone deacetylase activity is required for human oligodendrocyte progenitor differentiation. Glia, 2012, 60, 1944-1953.	2.5	63
16	Fate determination of adult human glial progenitor cells. Neuron Glia Biology, 2009, 5, 45-55.	2.0	56
17	Ageing and CNS remyelination. NeuroReport, 2002, 13, 923-928.	0.6	55
18	The re-expression of the homeodomain transcription factor Gtx during remyelination of experimentally induced demyelinating lesions in young and old rat brain. Neuroscience, 2000, 100, 131-139.	1.1	54

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19	SCIP/Oct-6, Krox-20, and desert hedgehog mRNA expression during CNS remyelination by transplanted olfactory ensheathing cells. Glia, 2001, 36, 342-353.	2.5	51
20	Pleiotrophin Suppression of Receptor Protein Tyrosine Phosphatase-Î²/Î¶ Maintains the Self-Renewal Competence of Fetal Human Oligodendrocyte Progenitor Cells. Journal of Neuroscience, 2012, 32, 15066-15075.	1.7	50
21	Differential gene expression by endothelial cells under positive and negative streamwise gradients of high wall shear stress. American Journal of Physiology - Cell Physiology, 2013, 305, C854-C866.	2.1	48
22	Targeting human oligodendrocyte progenitors for myelin repair. Experimental Neurology, 2016, 283, 489-500.	2.0	43
23	Expression of the POU-Domain Transcription Factors SCIP/Oct-6 and Brn-2 Is Associated with Schwann Cell but Not Oligodendrocyte Remyelination of the CNS. Molecular and Cellular Neurosciences, 2002, 20, 669-682.	1.0	40
24	Statin treatment of adult human glial progenitors induces PPARÎ³â€mediated oligodendrocytic differentiation. Glia, 2008, 56, 954-962.	2.5	40
25	Oligodendrocyte Intrinsic miR-27a Controls Myelination and Remyelination. Cell Reports, 2019, 29, 904-919.e9.	2.9	40
26	CD133/CD140a-Based Isolation of Distinct Human Multipotent Neural Progenitor Cells and Oligodendrocyte Progenitor Cells. Stem Cells and Development, 2013, 22, 2121-2131.	1.1	39
27	Prospective Identification, Isolation, and Profiling of a Telomerase-Expressing Subpopulation of Human Neural Stem Cells, using sox2 Enhancer-Directed Fluorescence-Activated Cell Sorting. Journal of Neuroscience, 2010, 30, 14635-14648.	1.7	36
28	Neural Progenitor Cells of the Adult Brain. Novartis Foundation Symposium, 2008, , 66-91.	1.2	28
29	Muscarinic Receptor M₃R Signaling Prevents Efficient Remyelination by Human and Mouse Oligodendrocyte Progenitor Cells. Journal of Neuroscience, 2018, 38, 6921-6932.	1.7	27
30	Activin A is increased in the nucleus accumbens following a cocaine binge. Scientific Reports, 2017, 7, 43658.	1.6	25
31	Analysis of transforming growth factor Î² receptor expression and signaling in higher grade meningiomas. Journal of Neuro-Oncology, 2011, 103, 277-285.	1.4	23
32	Network-Based Genomic Analysis of Human Oligodendrocyte Progenitor Differentiation. Stem Cell Reports, 2017, 9, 710-723.	2.3	23
33	A Novel Role for Oligodendrocyte Precursor Cells (OPCs) and Sox10 in Mediating Cellular and Behavioral Responses to Heroin. Neuropsychopharmacology, 2018, 43, 1385-1394.	2.8	22
34	Loss of NFIX Transcription Factor Biases Postnatal Neural Stem/Progenitor Cells Toward Oligodendrogenesis. Stem Cells and Development, 2015, 24, 2114-2126.	1.1	21
35	Paired Related Homeobox Protein 1 Regulates Quiescence in Human Oligodendrocyte Progenitors. Cell Reports, 2018, 25, 3435-3450.e6.	2.9	19
36	Sox10-MCS5 enhancer dynamically tracks human oligodendrocyte progenitor fate. Experimental Neurology, 2013, 247, 694-702.	2.0	18

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37	Overcoming the inhibitory microenvironment surrounding oligodendrocyte progenitor cells following experimental demyelination. Nature Communications, 2021, 12, 1923.	5.8	16
38	Heparanome-Mediated Rescue of Oligodendrocyte Progenitor Quiescence following Inflammatory Demyelination. Journal of Neuroscience, 2021, 41, 2245-2263.	1.7	10
39	MALDI Mass Spectrometry Imaging in a Primary Demyelination Model of Murine Spinal Cord. Journal of the American Society for Mass Spectrometry, 2020, 31, 2462-2468.	1.2	9
40	Oscillatory calcium release and sustained store-operated oscillatory calcium signaling prevents differentiation of human oligodendrocyte progenitor cells. Scientific Reports, 2022, 12, 6160.	1.6	3
41	Cell-Based Therapies for Disorders of the Brain and Spinal Cord. Neurotherapeutics, 2011, 8, 537-538.	2.1	2
42	Targeted Induction of Endogenous Neural Stem and Progenitor Cells: A New Strategy for Gene Therapy of Neurological Disease. , 2006, , 53-65.		0
43	Hyaluronan accumulation and arrested oligodendrocyte progenitor maturation in Vanishing White Matter disease. Tijdschrift Voor Kindergeneeskunde, 2013, 81, 28-28.	0.0	0
44	Regulation of human oligodendrocyte differentiation by muscarinic M3 receptor. FASEB Journal, 2012, 26, 845.5.	0.2	0