

# Fraser J Sim

## List of Publications by Year in descending order

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44  
papers

3,497  
citations

201674  
27  
h-index

265206  
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. <i>Journal of Neuroscience</i> , 2002, 22, 2451-2459.	3.6	502
2	The Transcriptome and Metabolic Gene Signature of Protoplasmic Astrocytes in the Adult Murine Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 12255-12266.	3.6	420
3	Macrophage depletion impairs oligodendrocyte remyelination following lysolecithin-induced demyelination. <i>Glia</i> , 2001, 35, 204-212.	4.9	357
4	Efficient Generation of Myelinating Oligodendrocytes from Primary Progressive Multiple Sclerosis Patients by Induced Pluripotent Stem Cells. <i>Stem Cell Reports</i> , 2014, 3, 250-259.	4.8	266
5	Non-Stem Cell Origin for Oligodendroglioma. <i>Cancer Cell</i> , 2010, 18, 669-682.	16.8	211
6	CD140a identifies a population of highly myelinogenic, migration-competent and efficiently engrafting human oligodendrocyte progenitor cells. <i>Nature Biotechnology</i> , 2011, 29, 934-941.	17.5	185
7	YAP and TAZ control peripheral myelination and the expression of laminin receptors in Schwann cells. <i>Nature Neuroscience</i> , 2016, 19, 879-887.	14.8	148
8	Complementary patterns of gene expression by human oligodendrocyte progenitors and their environment predict determinants of progenitor maintenance and differentiation. <i>Annals of Neurology</i> , 2006, 59, 763-779.	5.3	136
9	Hyaluronan accumulation and arrested oligodendrocyte progenitor maturation in vanishing white matter disease. <i>Brain</i> , 2013, 136, 209-222.	7.6	76
10	Transcriptional Differences between Normal and Glioma-Derived Glial Progenitor Cells Identify a Core Set of Dysregulated Genes. <i>Cell Reports</i> , 2013, 3, 2127-2141.	6.4	70
11	Anti-Muscarinic Adjunct Therapy Accelerates Functional Human Oligodendrocyte Repair. <i>Journal of Neuroscience</i> , 2015, 35, 3676-3688.	3.6	68
12	Neurocytoma Is a Tumor of Adult Neuronal Progenitor Cells. <i>Journal of Neuroscience</i> , 2006, 26, 12544-12555.	3.6	65
13	Endothelial cells express a unique transcriptional profile under very high wall shear stress known to induce expansive arterial remodeling. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C1109-C1118.	4.6	65
14	Transcription factor induction of human oligodendrocyte progenitor fate and differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E2885-94.	7.1	65
15	Histone deacetylase activity is required for human oligodendrocyte progenitor differentiation. <i>Glia</i> , 2012, 60, 1944-1953.	4.9	63
16	Fate determination of adult human glial progenitor cells. <i>Neuron Glia Biology</i> , 2009, 5, 45-55.	1.6	56
17	Ageing and CNS remyelination. <i>NeuroReport</i> , 2002, 13, 923-928.	1.2	55
18	The re-expression of the homeodomain transcription factor Gtx during remyelination of experimentally induced demyelinating lesions in young and old rat brain. <i>Neuroscience</i> , 2000, 100, 131-139.	2.3	54

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19	SCIP/Oct6, Krox20, and desert hedgehog mRNA expression during CNS remyelination by transplanted olfactory ensheathing cells. <i>Glia</i> , 2001, 36, 342-353.	4.9	51
20	Pleiotrophin Suppression of Receptor Protein Tyrosine Phosphatase- $\beta$ Maintains the Self-Renewal Competence of Fetal Human Oligodendrocyte Progenitor Cells. <i>Journal of Neuroscience</i> , 2012, 32, 15066-15075.	3.6	50
21	Differential gene expression by endothelial cells under positive and negative streamwise gradients of high wall shear stress. <i>American Journal of Physiology - Cell Physiology</i> , 2013, 305, C854-C866.	4.6	48
22	Targeting human oligodendrocyte progenitors for myelin repair. <i>Experimental Neurology</i> , 2016, 283, 489-500.	4.1	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. <i>Molecular and Cellular Neurosciences</i> , 2002, 20, 669-682.	2.2	40
24	Statin treatment of adult human glial progenitors induces PPAR $\gamma$ -mediated oligodendrocytic differentiation. <i>Glia</i> , 2008, 56, 954-962.	4.9	40
25	Oligodendrocyte Intrinsic miR-27a Controls Myelination and Remyelination. <i>Cell Reports</i> , 2019, 29, 904-919.e9.	6.4	40
26	CD133/CD140a-Based Isolation of Distinct Human Multipotent Neural Progenitor Cells and Oligodendrocyte Progenitor Cells. <i>Stem Cells and Development</i> , 2013, 22, 2121-2131.	2.1	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. <i>Journal of Neuroscience</i> , 2010, 30, 14635-14648.	3.6	36
28	Neural Progenitor Cells of the Adult Brain. <i>Novartis Foundation Symposium</i> , 2008, , 66-91.	1.1	28
29	Muscarinic Receptor M <sub>3</sub> R Signaling Prevents Efficient Remyelination by Human and Mouse Oligodendrocyte Progenitor Cells. <i>Journal of Neuroscience</i> , 2018, 38, 6921-6932.	3.6	27
30	Activin A is increased in the nucleus accumbens following a cocaine binge. <i>Scientific Reports</i> , 2017, 7, 43658.	3.3	25
31	Analysis of transforming growth factor $\beta$ receptor expression and signaling in higher grade meningiomas. <i>Journal of Neuro-Oncology</i> , 2011, 103, 277-285.	2.9	23
32	Network-Based Genomic Analysis of Human Oligodendrocyte Progenitor Differentiation. <i>Stem Cell Reports</i> , 2017, 9, 710-723.	4.8	23
33	A Novel Role for Oligodendrocyte Precursor Cells (OPCs) and Sox10 in Mediating Cellular and Behavioral Responses to Heroin. <i>Neuropsychopharmacology</i> , 2018, 43, 1385-1394.	5.4	22
34	Loss of NFIX Transcription Factor Biases Postnatal Neural Stem/Progenitor Cells Toward Oligodendrogenesis. <i>Stem Cells and Development</i> , 2015, 24, 2114-2126.	2.1	21
35	Paired Related Homeobox Protein 1 Regulates Quiescence in Human Oligodendrocyte Progenitors. <i>Cell Reports</i> , 2018, 25, 3435-3450.e6.	6.4	19
36	Sox10-MCS5 enhancer dynamically tracks human oligodendrocyte progenitor fate. <i>Experimental Neurology</i> , 2013, 247, 694-702.	4.1	18

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37	Overcoming the inhibitory microenvironment surrounding oligodendrocyte progenitor cells following experimental demyelination. Nature Communications, 2021, 12, 1923.	12.8	16
38	Heparanome-Mediated Rescue of Oligodendrocyte Progenitor Quiescence following Inflammatory Demyelination. Journal of Neuroscience, 2021, 41, 2245-2263.	3.6	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.	2.8	9
40	Oscillatory calcium release and sustained store-operated oscillatory calcium signaling prevents differentiation of human oligodendrocyte progenitor cells. Scientific Reports, 2022, 12, 6160.	3.3	3
41	Cell-Based Therapies for Disorders of the Brain and Spinal Cord. Neurotherapeutics, 2011, 8, 537-538.	4.4	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.	0.5	0