

# 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	Oscillatory calcium release and sustained store-operated oscillatory calcium signaling prevents differentiation of human oligodendrocyte progenitor cells. <i>Scientific Reports</i> , 2022, 12, 6160.	1.6	3
2	Heparanome-Mediated Rescue of Oligodendrocyte Progenitor Quiescence following Inflammatory Demyelination. <i>Journal of Neuroscience</i> , 2021, 41, 2245-2263.	1.7	10
3	Overcoming the inhibitory microenvironment surrounding oligodendrocyte progenitor cells following experimental demyelination. <i>Nature Communications</i> , 2021, 12, 1923.	5.8	16
4	MALDI Mass Spectrometry Imaging in a Primary Demyelination Model of Murine Spinal Cord. <i>Journal of the American Society for Mass Spectrometry</i> , 2020, 31, 2462-2468.	1.2	9
5	Oligodendrocyte Intrinsic miR-27a Controls Myelination and Remyelination. <i>Cell Reports</i> , 2019, 29, 904-919.e9.	2.9	40
6	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.	2.8	22
7	Paired Related Homeobox Protein 1 Regulates Quiescence in Human Oligodendrocyte Progenitors. <i>Cell Reports</i> , 2018, 25, 3435-3450.e6.	2.9	19
8	Muscarinic Receptor M <sub>3</sub> Signaling Prevents Efficient Remyelination by Human and Mouse Oligodendrocyte Progenitor Cells. <i>Journal of Neuroscience</i> , 2018, 38, 6921-6932.	1.7	27
9	Activin A is increased in the nucleus accumbens following a cocaine binge. <i>Scientific Reports</i> , 2017, 7, 43658.	1.6	25
10	Network-Based Genomic Analysis of Human Oligodendrocyte Progenitor Differentiation. <i>Stem Cell Reports</i> , 2017, 9, 710-723.	2.3	23
11	YAP and TAZ control peripheral myelination and the expression of laminin receptors in Schwann cells. <i>Nature Neuroscience</i> , 2016, 19, 879-887.	7.1	148
12	Targeting human oligodendrocyte progenitors for myelin repair. <i>Experimental Neurology</i> , 2016, 283, 489-500.	2.0	43
13	Anti-Muscarinic Adjunct Therapy Accelerates Functional Human Oligodendrocyte Repair. <i>Journal of Neuroscience</i> , 2015, 35, 3676-3688.	1.7	68
14	Loss of NFIX Transcription Factor Biases Postnatal Neural Stem/Progenitor Cells Toward Oligodendrogenesis. <i>Stem Cells and Development</i> , 2015, 24, 2114-2126.	1.1	21
15	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.	3.3	65
16	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.	2.3	266
17	Hyaluronan accumulation and arrested oligodendrocyte progenitor maturation in Vanishing White Matter disease. <i>Tijdschrift Voor Kindergeneeskunde</i> , 2013, 81, 28-28.	0.0	0
18	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.	2.9	70

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19	Sox10-MCS5 enhancer dynamically tracks human oligodendrocyte progenitor fate. <i>Experimental Neurology</i> , 2013, 247, 694-702.	2.0	18
20	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.	1.1	39
21	Hyaluronan accumulation and arrested oligodendrocyte progenitor maturation in vanishing white matter disease. <i>Brain</i> , 2013, 136, 209-222.	3.7	76
22	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.	2.1	48
23	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.	2.1	65
24	Pleiotrophin Suppression of Receptor Protein Tyrosine Phosphatase- $\hat{1}^2/\hat{1}^1$ Maintains the Self-Renewal Competence of Fetal Human Oligodendrocyte Progenitor Cells. <i>Journal of Neuroscience</i> , 2012, 32, 15066-15075.	1.7	50
25	Histone deacetylase activity is required for human oligodendrocyte progenitor differentiation. <i>Glia</i> , 2012, 60, 1944-1953.	2.5	63
26	Regulation of human oligodendrocyte differentiation by muscarinic M3 receptor. <i>FASEB Journal</i> , 2012, 26, 845.5.	0.2	0
27	Analysis of transforming growth factor $\hat{1}^2$ receptor expression and signaling in higher grade meningiomas. <i>Journal of Neuro-Oncology</i> , 2011, 103, 277-285.	1.4	23
28	Cell-Based Therapies for Disorders of the Brain and Spinal Cord. <i>Neurotherapeutics</i> , 2011, 8, 537-538.	2.1	2
29	CD140a identifies a population of highly myelinogenic, migration-competent and efficiently engrafting human oligodendrocyte progenitor cells. <i>Nature Biotechnology</i> , 2011, 29, 934-941.	9.4	185
30	Non-Stem Cell Origin for Oligodendroglioma. <i>Cancer Cell</i> , 2010, 18, 669-682.	7.7	211
31	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.	1.7	36
32	Fate determination of adult human glial progenitor cells. <i>Neuron Glia Biology</i> , 2009, 5, 45-55.	2.0	56
33	Statin treatment of adult human glial progenitors induces PPAR $\hat{1}^3$ -mediated oligodendrocytic differentiation. <i>Glia</i> , 2008, 56, 954-962.	2.5	40
34	Neural Progenitor Cells of the Adult Brain. <i>Novartis Foundation Symposium</i> , 2008, , 66-91.	1.2	28
35	The Transcriptome and Metabolic Gene Signature of Protoplasmic Astrocytes in the Adult Murine Cortex. <i>Journal of Neuroscience</i> , 2007, 27, 12255-12266.	1.7	420
36	Targeted Induction of Endogenous Neural Stem and Progenitor Cells: A New Strategy for Gene Therapy of Neurological Disease. , 2006, , 53-65.		0

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37	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.	2.8	136
38	Neurocytoma Is a Tumor of Adult Neuronal Progenitor Cells. <i>Journal of Neuroscience</i> , 2006, 26, 12544-12555.	1.7	65
39	Ageing and CNS remyelination. <i>NeuroReport</i> , 2002, 13, 923-928.	0.6	55
40	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.	1.0	40
41	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.	1.7	502
42	Macrophage depletion impairs oligodendrocyte remyelination following lysolecithin-induced demyelination. <i>Glia</i> , 2001, 35, 204-212.	2.5	357
43	SCIP/Oct-6, Krox-20, and desert hedgehog mRNA expression during CNS remyelination by transplanted olfactory ensheathing cells. <i>Glia</i> , 2001, 36, 342-353.	2.5	51
44	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.	1.1	54