

Simon J O'carroll

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

2,119
citations

257450

24
h-index

243625

44
g-index

63
all docs

63
docs citations

63
times ranked

2574
citing authors

#	ARTICLE	IF	CITATIONS
1	Connexin43 mimetic peptide reduces vascular leak and retinal ganglion cell death following retinal ischaemia. <i>Brain</i> , 2012, 135, 506-520.	7.6	169
2	Connexin43 Mimetic Peptides Reduce Swelling, Astrogliosis, and Neuronal Cell Death after Spinal Cord Injury. <i>Cell Communication and Adhesion</i> , 2008, 15, 27-42.	1.0	162
3	Application of xCELLigence RTCA Biosensor Technology for Revealing the Profile and Window of Drug Responsiveness in Real Time. <i>Biosensors</i> , 2015, 5, 199-222.	4.7	139
4	Pro-inflammatory TNF α and IL-1 β differentially regulate the inflammatory phenotype of brain microvascular endothelial cells. <i>Journal of Neuroinflammation</i> , 2015, 12, 131.	7.2	134
5	Connexin hemichannel blockade improves outcomes in a model of fetal ischemia. <i>Annals of Neurology</i> , 2012, 71, 121-132.	5.3	129
6	Attenuation of mechanical pain hypersensitivity by treatment with Peptide5, a connexin-43 mimetic peptide, involves inhibition of NLRP3 inflammasome in nerve-injured mice. <i>Experimental Neurology</i> , 2018, 300, 1-12.	4.1	96
7	Connexin43 mimetic peptide is neuroprotective and improves function following spinal cord injury. <i>Neuroscience Research</i> , 2013, 75, 256-267.	1.9	92
8	Unique and shared inflammatory profiles of human brain endothelia and pericytes. <i>Journal of Neuroinflammation</i> , 2018, 15, 138.	7.2	83
9	A Key Role for Connexin Hemichannels in Spreading Ischemic Brain Injury. <i>Current Drug Targets</i> , 2013, 14, 36-46.	2.1	65
10	Astrocyte-selective AAV gene therapy through the endogenous GFAP promoter results in robust transduction in the rat spinal cord following injury. <i>Gene Therapy</i> , 2019, 26, 198-210.	4.5	60
11	Amylin Analog Pramlintide Induces Migraine-like Attacks in Patients. <i>Annals of Neurology</i> , 2021, 89, 1157-1171.	5.3	58
12	Tonabersat Prevents Inflammatory Damage in the Central Nervous System by Blocking Connexin43 Hemichannels. <i>Neurotherapeutics</i> , 2017, 14, 1148-1165.	4.4	49
13	Connexin43 Mimetic Peptide Improves Retinal Function and Reduces Inflammation in a Light-Damaged Albino Rat Model. , 2016, 57, 3961.		47
14	The Importance of Multifrequency Impedance Sensing of Endothelial Barrier Formation Using ECIS Technology for the Generation of a Strong and Durable Paracellular Barrier. <i>Biosensors</i> , 2018, 8, 64.	4.7	47
15	Characterizing the mode of action of extracellular Connexin43 channel blocking mimetic peptides in an in vitro ischemia injury model. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 68-78.	2.4	46
16	Dose-dependent protective effect of connexin43 mimetic peptide against neurodegeneration in an ex vivo model of epileptiform lesion. <i>Epilepsy Research</i> , 2010, 92, 153-162.	1.6	45
17	Connexins and Pannexins in cerebral ischemia. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 224-236.	2.6	44
18	Nuclear PLC Beta 1 is required for 3T3-L1 adipocyte differentiation and regulates expression of the cyclin D3-cdk4 complex. <i>Cellular Signalling</i> , 2009, 21, 926-935.	3.6	40

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19	Systemic Administration of Connexin43 Mimetic Peptide Improves Functional Recovery after Traumatic Spinal Cord Injury in Adult Rats. <i>Journal of Neurotrauma</i> , 2017, 34, 707-719.	3.4	37
20	AAV Targeting of Glial Cell Types in the Central and Peripheral Nervous System and Relevance to Human Gene Therapy. <i>Frontiers in Molecular Neuroscience</i> , 2020, 13, 618020.	2.9	36
21	The Use of Connexin-Based Therapeutic Approaches to Target Inflammatory Diseases. <i>Methods in Molecular Biology</i> , 2013, 1037, 519-546.	0.9	36
22	Extracellular signal-regulated kinase involvement in human astrocyte migration. <i>Brain Research</i> , 2007, 1164, 1-13.	2.2	35
23	Gestational Age-Dependent Up-Regulation of Prostaglandin D Synthase (PGDS) and Production of PGDS-Derived Antiinflammatory Prostaglandins in Human Placenta. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2006, 91, 597-606.	3.6	33
24	Regulation of human cerebro-microvascular endothelial baso-lateral adhesion and barrier function by S1P through dual involvement of S1P1 and S1P2 receptors. <i>Scientific Reports</i> , 2016, 6, 19814.	3.3	29
25	Optimised techniques for high-throughput screening of differentiated SH-SY5Y cells and application for neurite outgrowth assays. <i>Scientific Reports</i> , 2021, 11, 23935.	3.3	29
26	Gap junction proteins and their role in spinal cord injury. <i>Frontiers in Molecular Neuroscience</i> , 2014, 7, 102.	2.9	28
27	Bradykinin receptor α_1 activation induces inflammation and increases the permeability of human brain microvascular endothelial cells. <i>Cell Biology International</i> , 2020, 44, 343-351.	3.0	27
28	Astrocyte-selective AAV-ADAMTS4 gene therapy combined with hindlimb rehabilitation promotes functional recovery after spinal cord injury. <i>Experimental Neurology</i> , 2020, 327, 113232.	4.1	25
29	Connexin hemichannel induced vascular leak suggests a new paradigm for cancer therapy. <i>FEBS Letters</i> , 2014, 588, 1365-1371.	2.8	23
30	Statins Inhibit Fibrillary β -Amyloid Induced Inflammation in a Model of the Human Blood Brain Barrier. <i>PLoS ONE</i> , 2016, 11, e0157483.	2.5	23
31	Image-Based High-Throughput Quantification of Cellular Fat Accumulation. <i>Journal of Biomolecular Screening</i> , 2007, 12, 999-1005.	2.6	22
32	Real-Time Measurement of Melanoma Cell-Mediated Human Brain Endothelial Barrier Disruption Using Electric Cell-Substrate Impedance Sensing Technology. <i>Biosensors</i> , 2019, 9, 56.	4.7	19
33	Non-invasive neuromodulation for bowel, bladder and sexual restoration following spinal cord injury: A systematic review. <i>Clinical Neurology and Neurosurgery</i> , 2020, 194, 105822.	1.4	17
34	Externally triggered release of growth factors - A tissue regeneration approach. <i>Journal of Controlled Release</i> , 2021, 332, 74-95.	9.9	16
35	A model for ex vivo spinal cord segment culture – A tool for analysis of injury repair strategies. <i>Journal of Neuroscience Methods</i> , 2010, 192, 49-57.	2.5	15
36	IL-6 stimulates a concentration-dependent increase in MCP-1 in immortalised human brain endothelial cells. <i>F1000Research</i> , 2016, 5, 270.	1.6	15

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37	Characterisation of Peptide5 systemic administration for treating traumatic spinal cord injured rats. <i>Experimental Brain Research</i> , 2017, 235, 3033-3048.	1.5	13
38	ECIS technology reveals that monocytes isolated by CD14+ve selection mediate greater loss of BBB integrity than untouched monocytes, which occurs to a greater extent with IL-1 β activated endothelium in comparison to TNF α . <i>PLoS ONE</i> , 2017, 12, e0180267.	2.5	13
39	IL-6 stimulates a concentration-dependent increase in MCP-1 in immortalised human brain endothelial cells. <i>F1000Research</i> , 2016, 5, 270.	1.6	11
40	Determining Neurotrophin Gradients in Vitro To Direct Axonal Outgrowth Following Spinal Cord Injury. <i>ACS Chemical Neuroscience</i> , 2020, 11, 121-132.	3.5	10
41	A Subdural Bioelectronic Implant to Record Electrical Activity from the Spinal Cord in Freely Moving Rats. <i>Advanced Science</i> , 2022, 9, e2105913.	11.2	10
42	A Macroscopic Diffusion-Based Gradient Generator to Establish Concentration Gradients of Soluble Molecules Within Hydrogel Scaffolds for Cell Culture. <i>Frontiers in Chemistry</i> , 2019, 7, 638.	3.6	9
43	Optimisation of glutathione conjugation to liposomes quantified with a validated HPLC assay. <i>International Journal of Pharmaceutics</i> , 2019, 567, 118451.	5.2	9
44	In Vitro Wounding Models Using the Electric Cell-Substrate Impedance Sensing (ECIS)-Z \bar{I} Technology. <i>Biosensors</i> , 2018, 8, 90.	4.7	8
45	Make it simple: long-term stable gradient generation in a microfluidic microdevice. <i>Biomedical Microdevices</i> , 2019, 21, 77.	2.8	8
46	Upregulation of pannexin-1 hemichannels explains the apparent death of the syncytiotrophoblast during human placental explant culture. <i>Placenta</i> , 2020, 94, 1-12.	1.5	8
47	Synthesis and biological evaluation of <i>S</i> -lipidated lipopeptides of a connexin 43 channel inhibitory peptide. <i>RSC Medicinal Chemistry</i> , 2020, 11, 1041-1047.	3.9	8
48	Transcutaneous Electrical Stimulation for Neurogenic Bladder Dysfunction Following Spinal Cord Injury: Meta-Analysis of Randomized Controlled Trials. <i>Neuromodulation</i> , 2021, 24, 1237-1246.	0.8	8
49	Analysis of Melanoma Secretome for Factors That Directly Disrupt the Barrier Integrity of Brain Endothelial Cells. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8193.	4.1	7
50	Biosensor Technology Reveals the Disruption of the Endothelial Barrier Function and the Subsequent Death of Blood Brain Barrier Endothelial Cells to Sodium Azide and Its Gaseous Products. <i>Biosensors</i> , 2017, 7, 41.	4.7	6
51	Comparison of Leading Biosensor Technologies to Detect Changes in Human Endothelial Barrier Properties in Response to Pro-Inflammatory TNF α and IL1 β in Real-Time. <i>Biosensors</i> , 2021, 11, 159.	4.7	6
52	Receptor for Advanced Glycation End Products (RAGE) is Expressed Predominantly in Medium Spiny Neurons of tgHD Rat Striatum. <i>Neuroscience</i> , 2018, 380, 146-151.	2.3	4
53	The involvement of extracellular vesicles in the transcytosis of nanoliposomes through brain endothelial cells, and the impact of liposomal pH-sensitivity. <i>Materials Today Bio</i> , 2022, 13, 100212.	5.5	4
54	Stretchable Electronics Based on Laser Structured, Vapor Phase Polymerized PEDOT/Tosylate. <i>Polymers</i> , 2020, 12, 1654.	4.5	3

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55	Spatiotemporal changes in Cx30 and Cx43 expression during neuronal differentiation of P19 EC and NT2/D1 cells. <i>Cell Biology International Reports</i> , 2013, 20, 13-23.	0.6	1
56	Tracking Antioxidant Status in Spinal Cord Injured Rodents: A Voltammetric Method Suited for Clinical Translation. <i>World Neurosurgery</i> , 2022, , .	1.3	1
57	Connexin43 Expression and Associated Chronic Inflammation Presages the Development of Cerebral Radiation Necrosis. <i>Journal of Neuropathology and Experimental Neurology</i> , 2020, 79, 791-799.	1.7	0
58	Comparison of Leading Biosensor Technologies to Measure Endothelial Adhesion, Barrier Properties, and Responses to Cytokines in Real-Time. , 2020, 60, .		0
59	Viral vector gene therapy approaches for regeneration and repair in spinal cord injury. , 2022, , 411-423.		0