Susan C Barnett

List of Publications by Year
in descending order

65 papers	4,312 citations	117571 34 h-index	110317 64 g-index
65 all docs	65 docs citations	65 times ranked	4444 citing authors

#	Article	IF	Citations
1	Human olfactory mesenchymal stromal cell transplantation ameliorates experimental autoimmune encephalomyelitis revealing an inhibitory role for IL16 on myelination. Acta Neuropathologica Communications, 2022, 10, 12.	2.4	4
2	SARM1 Depletion Slows Axon Degeneration in a CNS Model of Neurotropic Viral Infection. Frontiers in Molecular Neuroscience, 2022, 15, 860410.	1.4	8
3	Generation of Rat Neural Stem Cells to Produce Different Astrocyte Phenotypes. Methods in Molecular Biology, 2022, 2429, 333-344.	0.4	3
4	Myelinated axons are the primary target of hemin-mediated oxidative damage in a model of the central nervous system. Experimental Neurology, 2022, 354, 114113.	2.0	3
5	Therapeutic Potential of Niche-Specific Mesenchymal Stromal Cells for Spinal Cord Injury Repair. Cells, 2021, 10, 901.	1.8	19
6	Oligodendrocytes are susceptible to Zika virus infection in a mouse model of perinatal exposure: Implications for CNS complications. Glia, 2021, 69, 2023-2036.	2.5	17
7	Zika Virus Infection Leads to Demyelination and Axonal Injury in Mature CNS Cultures. Viruses, 2021, 13, 91.	1.5	17
8	A novel poly-Îµ-lysine based implant, ProliferateÂ®, for promotion of CNS repair following spinal cord injury. Biomaterials Science, 2020, 8, 3611-3627.	2.6	4
9	Multi-target approaches to CNS repair: olfactory mucosa-derived cells and heparan sulfates. Nature Reviews Neurology, 2020, 16, 229-240.	4.9	43
10	A scoping review of trials for cell-based therapies in human spinal cord injury. Spinal Cord, 2020, 58, 844-856.	0.9	19
11	The Use of Myelinating Cultures as a Screen of Glycomolecules for CNS Repair. Biology, 2019, 8, 52.	1.3	3
12	ZikaPLAN: addressing the knowledge gaps and working towards a research preparedness network in the Americas. Global Health Action, 2019, 12, 1666566.	0.7	13
13	An in vitro model for studying CNS white matter: functional properties and experimental approaches. F1000Research, 2019, 8, 117.	0.8	13
14	MyelinJ: an ImageJ macro for high throughput analysis of myelinating cultures. Bioinformatics, 2019, 35, 4528-4530.	1.8	30
15	Low sulfated heparins target multiple proteins for central nervous system repair. Glia, 2019, 67, 668-687.	2.5	18
16	Heparanase attenuates axon degeneration following sciatic nerve transection. Scientific Reports, 2018, 8, 5219.	1.6	8
17	Human olfactory mesenchymal stromal cell transplants promote remyelination and earlier improvement in gait coâ€ordination after spinal cord injury. Glia, 2017, 65, 639-656.	2.5	33
18	Neurofilament light as an immune target for pathogenic antibodies. Immunology, 2017, 152, 580-588.	2.0	14

#	Article	IF	Citations
19	Zika virus tropism and interactions in myelinating neural cell cultures: CNS cells and myelin are preferentially affected. Acta Neuropathologica Communications, 2017, 5, 50.	2.4	56
20	Are nestin-positive mesenchymal stromal cells a better source of cells for CNS repair?. Neurochemistry International, 2017, 106, 101-107.	1.9	25
21	Sulfataseâ€mediated manipulation of the astrocyteâ€Schwann cell interface. Glia, 2017, 65, 19-33.	2.5	18
22	Neural cell cultures to study spinal cord injury. Drug Discovery Today: Disease Models, 2017, 25-26, 11-20.	1.2	3
23	Comparative miRNA-Based Fingerprinting Reveals Biological Differences inÂHuman Olfactory Mucosa- and Bone-Marrow-Derived Mesenchymal Stromal Cells. Stem Cell Reports, 2016, 6, 729-742.	2.3	26
24	The multifaceted role of astrocytes in regulating myelination. Experimental Neurology, 2016, 283, 541-549.	2.0	133
25	Comparison of human olfactory and skeletal MSCs using osteogenic nanotopography to demonstrate bone-specific bioactivity of the surfaces. Acta Biomaterialia, 2015, 13, 266-276.	4.1	21
26	Fibroblast growth factor signalling in multiple sclerosis: inhibition of myelination and induction of pro-inflammatory environment by FGF9. Brain, 2015, 138, 1875-1893.	3.7	56
27	Glutamine synthetase activity fuels nucleotide biosynthesis and supports growth of glutamine-restricted glioblastoma. Nature Cell Biology, 2015, 17, 1556-1568.	4.6	423
28	Transcript profiling of different types of multiple sclerosis lesions yields FGF1 as a promoter of remyelination. Acta Neuropathologica Communications, 2014, 2, 168.	2.4	34
29	Astroglial-axonal interactions during early stages of myelination in mixed cultures using in vitro and ex vivo imaging techniques. BMC Neuroscience, 2014, 15, 59.	0.8	8
30	The Development of a É›-Polycaprolactone Scaffold for Central Nervous System Repair. Tissue Engineering - Part A, 2013, 19, 497-507.	1.6	32
31	A comparative study of glial and nonâ€neural cell properties for transplantâ€mediated repair of the injured spinal cord. Glia, 2013, 61, 513-528.	2.5	29
32	Myelination. Neuroscientist, 2013, 19, 442-450.	2.6	61
33	Human mesenchymal stem cells isolated from olfactory biopsies but not bone enhance CNS myelination <i>in vitro</i>. Glia, 2013, 61, 368-382.	2.5	56
34	Schwann Cells But Not Olfactory Ensheathing Cells Inhibit CNS Myelination via the Secretion of Connective Tissue Growth Factor. Journal of Neuroscience, 2013, 33, 18686-18697.	1.7	25
35	Differential Sulfation Remodelling of Heparan Sulfate by Extracellular 6-<i>O</i>-Sulfatases Regulates Fibroblast Growth Factor-Induced Boundary Formation by Glial Cells: Implications for Glial Cell Transplantation. Journal of Neuroscience, 2012, 32, 15902-15912.	1.7	38
36	Functional identification of pathogenic autoantibody responses in patients with multiple sclerosis. Brain, 2012, 135, 1819-1833.	3.7	123

#	Article	IF	Citations
37	Time-Lapse Imaging of the Dynamics of CNS Glial-Axonal Interactions In Vitro and Ex Vivo. PLoS ONE, 2012, 7, e30775.	1.1	39
38	The development of a rat <i>in vitro</i> model of spinal cord injury demonstrating the additive effects of rho and ROCK inhibitors on neurite outgrowth and myelination. Glia, 2012, 60, 441-456.	2.5	42
39	The culture of olfactory ensheathing cells (OECs)â€”a distinct glial cell type. Experimental Neurology, 2011, 229, 2-9.	2.0	58
40	Astrocyte phenotypes and their relationship to myelination. Journal of Anatomy, 2011, 219, 44-52.	0.9	64
41	Functional Duality of Astrocytes in Myelination. Journal of Neuroscience, 2011, 31, 13028-13038.	1.7	112
42	Olfactory mucosa for transplantâ€mediated repair: A complex tissue for a complex injury?. Glia, 2010, 58, 125-134.	2.5	79
43	Identification of Nonepithelial Multipotent Cells in the Embryonic Olfactory Mucosa. Stem Cells, 2009, 27, 2196-2208.	1.4	83
44	Astrocytes, but not olfactory ensheathing cells or Schwann cells, promote myelination of CNS axons <i>in vitro</i>. Glia, 2008, 56, 750-763.	2.5	83
45	FGF/Heparin Differentially Regulates Schwann Cell and Olfactory Ensheathing Cell Interactions with Astrocytes: A Role in Astrocytosis. Journal of Neuroscience, 2007, 27, 7154-7167.	1.7	89
46	Olfactory ensheathing cell transplantation as a strategy for spinal cord repairâ€”what can it achieve?. Nature Clinical Practice Neurology, 2007, 3, 152-161.	2.7	101
47	Long-term neurite orientation on astrocyte monolayers aligned by microtopography. Biomaterials, 2007, 28, 5498-5508.	5.7	59
48	Electrophysiological evidence that olfactory cell transplants improve function after spinal cord injury. Brain, 2006, 130, 970-984.	3.7	79
49	N-cadherin differentially determines Schwann cell and olfactory ensheathing cell adhesion and migration responses upon contact with astrocytes. Molecular and Cellular Neurosciences, 2005, 28, 253-263.	1.0	83
50	Olfactory Ensheathing Cells: Unique Glial Cell Types?. Journal of Neurotrauma, 2004, 21, 375-382.	1.7	69
51	Olfactory ensheathing cells (OECs) and the treatment of CNS injury: advantages and possible caveats. Journal of Anatomy, 2004, 204, 57-67.	0.9	136
52	Response of olfactory ensheathing cells to the degeneration and regeneration of the peripheral olfactory system and the involvement of the neuregulins. Journal of Comparative Neurology, 2004, 470, 50-62.	0.9	70
53	Olfactory ensheathing cells and CNS repair: going solo or in need of a friend?. Trends in Neurosciences, 2004, 27, 54-60.	4.2	117
54	Olfactory ensheathing cells induce less host astrocyte response and chondroitin sulphate proteoglycan expression than schwann cells following transplantation into adult cns white matter. Experimental Neurology, 2003, 184, 237-246.	2.0	182

#	Article	IF	Citations
55	Identification of growth factors that promote long-term proliferation of olfactory ensheathing cells and modulate their antigenic phenotype. Glia, 2002, 37, 349-364.	2.5	92
56	Identification of growth factors that promote long-term proliferation of olfactory ensheathing cells and modulate their antigenic phenotype. Glia, 2002, 37, 349.	2.5	3
57	Gap junctional communication and connexin expression in cultured olfactory ensheathing cells. Journal of Neuroscience Research, 2001, 65, 520-528.	1.3	14
58	Olfactory ensheathing cells and Schwann cells differ in their in vitro interactions with astrocytes. Glia, 2000, 32, 214-225.	2.5	271
59	Identification of a human olfactory ensheathing cell that can effect transplant-mediated remyelination of demyelinated CNS axons. Brain, 2000, 123, 1581-1588.	3.7	233
60	Olfactory Ensheathing Cells and CNS Regeneration. Neuron, 2000, 28, 15-18.	3.8	139
61	Neuregulin is a mitogen and survival factor for olfactory bulb ensheathing cells and an isoform is produced by astrocytes. European Journal of Neuroscience, 1999, 11, 769-780.	1.2	72
62	Do olfactory glia have advantages over Schwann cells for CNS repair?. , 1997, 50, 665-672.		94
63	Do olfactory glia have advantages over Schwann cells for CNS repair?. Journal of Neuroscience Research, 1997, 50, 665-672.	1.3	5
64	Low-Affinity NGF-Receptor and E-N-CAM Expression Define Two Types of Olfactory Nerve Ensheathing Cells That Share a Common Lineage. Developmental Biology, 1996, 173, 327-343.	0.9	228
65	Purification of Olfactory Nerve Ensheathing Cells from the Olfactory Bulb. Developmental Biology, 1993, 155, 337-350.	0.9	180