

# Brian J Cummings

## List of Publications by Year in descending order

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98  
papers

8,063  
citations

47006

47  
h-index

48315

88  
g-index

100  
all docs

100  
docs citations

100  
times ranked

8092  
citing authors

#	ARTICLE	IF	CITATIONS
1	iPSC-Derived Human Microglia-like Cells to Study Neurological Diseases. <i>Neuron</i> , 2017, 94, 278-293.e9.	8.1	730
2	Human neural stem cells differentiate and promote locomotor recovery in spinal cord-injured mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 14069-14074.	7.1	666
3	Immunohistochemical evidence for apoptosis in Alzheimer's disease. <i>NeuroReport</i> , 1994, 5, 2529-2533.	1.2	568
4	$\beta$ -amyloid deposition and other measures of neuropathology predict cognitive status in Alzheimer's disease. <i>Neurobiology of Aging</i> , 1996, 17, 921-933.	3.1	297
5	Image analysis of $\beta$ -amyloid load in Alzheimer's disease and relation to dementia severity. <i>Lancet</i> , The, 1995, 346, 1524-1528.	13.7	267
6	The canine as an animal model of human aging and dementia. <i>Neurobiology of Aging</i> , 1996, 17, 259-268.	3.1	247
7	Development of a Chimeric Model to Study and Manipulate Human Microglia In Vivo. <i>Neuron</i> , 2019, 103, 1016-1033.e10.	8.1	218
8	Localization and Cell Association of C1q in Alzheimer's Disease Brain. <i>Experimental Neurology</i> , 1996, 138, 22-32.	4.1	211
9	$\beta$ -Amyloid Accumulation Correlates with Cognitive Dysfunction in the Aged Canine. <i>Neurobiology of Learning and Memory</i> , 1996, 66, 11-23.	1.9	198
10	$\beta$ -Amyloid accumulation in aged canine brain: A model of early plaque formation in Alzheimer's disease. <i>Neurobiology of Aging</i> , 1993, 14, 547-560.	3.1	186
11	Human Neural Stem Cells Differentiate and Promote Locomotor Recovery in an Early Chronic Spinal cord Injury NOD-scid Mouse Model. <i>PLoS ONE</i> , 2010, 5, e12272.	2.5	182
12	Localization of heparan sulfate glycosaminoglycan and proteoglycan core protein in aged brain and Alzheimer's disease. <i>Neuroscience</i> , 1992, 51, 801-813.	2.3	166
13	Increased Immunoreactivity for Jun- and Fos-Related Proteins in Alzheimer's Disease: Association with Pathology. <i>Experimental Neurology</i> , 1994, 125, 286-295.	4.1	163
14	Early association of reactive astrocytes with senile plaques in Alzheimer's disease. <i>Experimental Neurology</i> , 1995, 132, 172-179.	4.1	162
15	$\beta$ -Amyloid-induced changes in cultured astrocytes parallel reactive astrocytosis associated with senile plaques in Alzheimer's disease. <i>Neuroscience</i> , 1994, 63, 517-531.	2.3	144
16	$\beta$ -Amyloid induces neuritic dystrophy in vitro. <i>NeuroReport</i> , 1992, 3, 769-772.	1.2	132
17	Immunoreactivity for Bcl-2 protein within neurons in the Alzheimer's disease brain increases with disease severity. <i>Brain Research</i> , 1995, 697, 35-43.	2.2	124
18	The Induction of the TNF Death Domain Signaling Pathway in Alzheimer's Disease Brain. <i>Neurochemical Research</i> , 2003, 28, 307-318.	3.3	117

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19	Aggregation of the amyloid precursor protein within degenerating neurons and dystrophic neurites in alzheimer's disease. <i>Neuroscience</i> , 1992, 48, 763-777.	2.3	113
20	Human Neural Stem Cells Induce Functional Myelination in Mice with Severe Dysmyelination. <i>Science Translational Medicine</i> , 2012, 4, 155ra136.	12.4	111
21	Induction of basic Fibroblast Growth Factor in Alzheimer's disease pathology. <i>NeuroReport</i> , 1990, 1, 211-214.	1.2	107
22	Multifunctional, multichannel bridges that deliver neurotrophin encoding lentivirus for regeneration following spinal cord injury. <i>Biomaterials</i> , 2012, 33, 1618-1626.	11.4	103
23	$\beta$ -Amyloid converts an acute phase injury response to chronic injury responses. <i>Neurobiology of Aging</i> , 1996, 17, 723-731.	3.1	101
24	Analysis of Host-Mediated Repair Mechanisms after Human CNS-Stem Cell Transplantation for Spinal Cord Injury: Correlation of Engraftment with Recovery. <i>PLoS ONE</i> , 2009, 4, e5871.	2.5	97
25	Early phosphorylation of tau in Alzheimer's disease occurs at Ser-202 and is preferentially located within neurites. <i>NeuroReport</i> , 1994, 5, 2358-2362.	1.2	96
26	The progression of $\beta$ -amyloid deposition in the frontal cortex of the aged canine. <i>Brain Research</i> , 1997, 774, 35-43.	2.2	87
27	Intravascular innate immune cells reprogrammed via intravenous nanoparticles to promote functional recovery after spinal cord injury. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 14947-14954.	7.1	83
28	Aligned hydrogel tubes guide regeneration following spinal cord injury. <i>Acta Biomaterialia</i> , 2019, 86, 312-322.	8.3	83
29	Achieving stable human stem cell engraftment and survival in the CNS: is the future of regenerative medicine immunodeficient?. <i>Regenerative Medicine</i> , 2011, 6, 367-406.	1.7	82
30	Human neural stem cell differentiation following transplantation into spinal cord injured mice: association with recovery of locomotor function. <i>Neurological Research</i> , 2006, 28, 474-481.	1.3	78
31	Preclinical Efficacy Failure of Human CNS-Derived Stem Cells for Use in the Pathway Study of Cervical Spinal Cord Injury. <i>Stem Cell Reports</i> , 2017, 8, 249-263.	4.8	76
32	Functional assessment of long-term deficits in rodent models of traumatic brain injury. <i>Regenerative Medicine</i> , 2013, 8, 483-516.	1.7	74
33	Channel density and porosity of degradable bridging scaffolds on axon growth after spinal injury. <i>Biomaterials</i> , 2013, 34, 2213-2220.	11.4	73
34	Adaptation of a ladder beam walking task to assess locomotor recovery in mice following spinal cord injury. <i>Behavioural Brain Research</i> , 2007, 177, 232-241.	2.2	71
35	Transplantation of human neural stem cells restores cognition in an immunodeficient rodent model of traumatic brain injury. <i>Experimental Neurology</i> , 2016, 281, 1-16.	4.1	71
36	Neuritic Involvement within bFGF Immunopositive Plaques of Alzheimer's Disease. <i>Experimental Neurology</i> , 1993, 124, 315-325.	4.1	70

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37	Identification and distribution of axonal dystrophic neurites in Alzheimer's disease. Brain Research, 1993, 625, 228-237.	2.2	69
38	Plaque biogenesis in brain aging and Alzheimer's disease. Brain Research, 1996, 739, 79-87.	2.2	69
39	Sonic hedgehog and neurotrophin-3 increase oligodendrocyte numbers and myelination after spinal cord injury. Integrative Biology (United Kingdom), 2014, 6, 694-705.	1.3	63
40	Biomaterial bridges enable regeneration and re-entry of corticospinal tract axons into the caudal spinal cord after SCI: Association with recovery of forelimb function. Biomaterials, 2015, 65, 1-12.	11.4	61
41	Plaque biogenesis in brain aging and Alzheimer's disease. II. Progressive transformation and developmental sequence of dystrophic neurites. Acta Neuropathologica, 1998, 96, 463-471.	7.7	59
42	Plasmid Releasing Multiple Channel Bridges for Transgene Expression After Spinal Cord Injury. Molecular Therapy, 2009, 17, 318-326.	8.2	58
43	Diffuse plaques contain C-terminal A $\beta$ <sup>242</sup> and not A $\beta$ <sup>240</sup> : Evidence from cats and dogs. Neurobiology of Aging, 1996, 17, 653-659.	3.1	57
44	Multiple Channel Bridges for Spinal Cord Injury: Cellular Characterization of Host Response. Tissue Engineering - Part A, 2009, 15, 3283-3295.	3.1	56
45	Local Immunomodulation with Anti-inflammatory Cytokine-Encoding Lentivirus Enhances Functional Recovery after Spinal Cord Injury. Molecular Therapy, 2018, 26, 1756-1770.	8.2	56
46	Long-Term, Stable Differentiation of Human Embryonic Stem Cell-Derived Neural Precursors Grafted into the Adult Mammalian Neostriatum. Stem Cells, 2009, 27, 2414-2426.	3.2	52
47	Reducing inflammation through delivery of lentivirus encoding for anti-inflammatory cytokines attenuates neuropathic pain after spinal cord injury. Journal of Controlled Release, 2018, 290, 88-101.	9.9	49
48	bFGF promotes the survival of entorhinal layer II neurons after perforant path axotomy. Brain Research, 1992, 591, 271-276.	2.2	48
49	Glutotoxic actions of excitatory amino acids. Neuropharmacology, 1992, 31, 899-907.	4.1	46
50	Open Field Activity and Human Interaction as a Function of Age and Breed in Dogs. Physiology and Behavior, 1997, 62, 963-971.	2.1	46
51	Safety of Human Neural Stem Cell Transplantation in Chronic Spinal Cord Injury. Stem Cells Translational Medicine, 2013, 2, 961-974.	3.3	46
52	Repeated Mild Closed Head Injuries Induce Long-Term White Matter Pathology and Neuronal Loss That Are Correlated With Behavioral Deficits. ASN Neuro, 2018, 10, 175909141878192.	2.7	45
53	Safety of Epicenter Versus Intact Parenchyma as a Transplantation Site for Human Neural Stem Cells for Spinal Cord Injury Therapy. Stem Cells Translational Medicine, 2013, 2, 204-216.	3.3	43
54	Optimization of techniques for the maximal detection and quantification of Alzheimer's-related neuropathology with digital imaging. Neurobiology of Aging, 2002, 23, 161-170.	3.1	42

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55	Constructional apraxia in Alzheimer's disease correlates with neuritic neuropathology in occipital cortex. <i>Brain Research</i> , 1996, 741, 284-293.	2.2	41
56	Injury to the Spinal Cord Niche Alters the Engraftment Dynamics of Human Neural Stem Cells. <i>Stem Cell Reports</i> , 2014, 2, 620-632.	4.8	41
57	Comparison of Immunopathology and Locomotor Recovery in C57BL/6, BUB/BnJ, and NOD-SCID Mice after Contusion Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2010, 27, 411-421.	3.4	34
58	Transplantation of human oligodendrocyte progenitor cells in an animal model of diffuse traumatic axonal injury: survival and differentiation. <i>Stem Cell Research and Therapy</i> , 2015, 6, 93.	5.5	33
59	Transplantation dose alters the dynamics of human neural stem cell engraftment, proliferation and migration after spinal cord injury. <i>Stem Cell Research</i> , 2015, 15, 341-353.	0.7	32
60	BioVision: An application for the automated image analysis of histological sections. <i>Neurobiology of Aging</i> , 2006, 27, 1462-1476.	3.1	31
61	Increasing Human Neural Stem Cell Transplantation Dose Alters Oligodendroglial and Neuronal Differentiation after Spinal Cord Injury. <i>Stem Cell Reports</i> , 2017, 8, 1534-1548.	4.8	30
62	Long-Term Characterization of Axon Regeneration and Matrix Changes Using Multiple Channel Bridges for Spinal Cord Regeneration. <i>Tissue Engineering - Part A</i> , 2014, 20, 1027-1037.	3.1	29
63	Live-cell time-lapse imaging and single-cell tracking of in vitro cultured neural stem cells – Tools for analyzing dynamics of cell cycle, migration, and lineage selection. <i>Methods</i> , 2018, 133, 81-90.	3.8	29
64	Alzheimer's disease – a sum greater than its parts?. <i>Neurobiology of Aging</i> , 2004, 25, 725-733.	3.1	27
65	Immunosuppressants Affect Human Neural Stem Cells In Vitro but Not in an In Vivo Model of Spinal Cord Injury. <i>Stem Cells Translational Medicine</i> , 2013, 2, 731-744.	3.3	27
66	Polycistronic Delivery of IL-10 and NT-3 Promotes Oligodendrocyte Myelination and Functional Recovery in a Mouse Spinal Cord Injury Model. <i>Tissue Engineering - Part A</i> , 2020, 26, 672-682.	3.1	27
67	Neutrophils Induce Astroglial Differentiation and Migration of Human Neural Stem Cells via C1q and C3a Synthesis. <i>Journal of Immunology</i> , 2017, 199, 1069-1085.	0.8	25
68	Detection of Mutant Huntingtin Aggregation Conformers and Modulation of SDS-Soluble Fibrillar Oligomers by Small Molecules. <i>Journal of Huntington's Disease</i> , 2012, 1, 119-132.	1.9	24
69	A meta-analysis of efficacy in pre-clinical human stem cell therapies for traumatic brain injury. <i>Experimental Neurology</i> , 2015, 273, 225-233.	4.1	24
70	Effects of Human ES-Derived Neural Stem Cell Transplantation and Kindling in a Rat Model of Traumatic Brain Injury. <i>Cell Transplantation</i> , 2017, 26, 1247-1261.	2.5	24
71	Analysis of brain injury following intrahippocampal administration of I <sup>2</sup> -amyloid in streptozotocin-treated rats. <i>Neurobiology of Aging</i> , 1994, 15, 153-159.	3.1	22
72	Life Span Changes in the Verbal Categorization of Odors. <i>Journal of Gerontology</i> , 1993, 48, P49-P53.	1.9	21

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73	Color image analysis in neuroanatomical research: Application to senile plaque subtype quantification in Alzheimer's disease. <i>Neurobiology of Aging</i> , 1995, 16, 211-223.	3.1	21
74	Effects of concussion on the blood-brain barrier in humans and rodents. <i>Journal of Concussion</i> , 2017, 1, 205970021668451.	0.6	21
75	Plaques and Tangles: Searching for Primary Events in a Forest of Data. <i>Neurobiology of Aging</i> , 1997, 18, 358-362.	3.1	20
76	Subpopulations of dystrophic neuritis in Alzheimer's brain with distinct immunocytochemical and argenophilic characteristics. <i>Brain Research</i> , 1994, 637, 37-44.	2.2	17
77	DNA damage and apoptosis in the aged canine brain: Relationship to A $\beta$ deposition in the absence of neuritic pathology. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2000, 24, 787-799.	4.8	16
78	Spinal Progenitor-Laden Bridges Support Earlier Axon Regeneration Following Spinal Cord Injury. <i>Tissue Engineering - Part A</i> , 2018, 24, 1588-1602.	3.1	15
79	Induction of early neural precursors and derivation of tripotent neural stem cells from human pluripotent stem cells under xeno-free conditions. <i>Journal of Comparative Neurology</i> , 2014, 522, 2767-2783.	1.6	14
80	CD133-enriched Xeno-Free human embryonic-derived neural stem cells expand rapidly in culture and do not form teratomas in immunodeficient mice. <i>Stem Cell Research</i> , 2014, 13, 214-226.	0.7	13
81	Combinatorial lentiviral gene delivery of pro-oligodendrogenic factors for improving myelination of regenerating axons after spinal cord injury. <i>Biotechnology and Bioengineering</i> , 2019, 116, 155-167.	3.3	13
82	Computer-Aided 2D and 3D quantification of human stem cell fate from in vitro samples using Volocity high performance image analysis software. <i>Stem Cell Research</i> , 2011, 7, 256-263.	0.7	9
83	Stem cell therapies for traumatic brain injury. <i>Regenerative Medicine</i> , 2015, 10, 917-920.	1.7	8
84	Comparative non-radioactive RT-PCR assay: An approach to study the neurosteroids biosynthetic pathway in humans. <i>Journal of Neuroscience Methods</i> , 2006, 153, 290-298.	2.5	7
85	Achieving Informed Consent for Cellular Therapies: A Preclinical Translational Research Perspective on Regulations versus a Dose of Reality. <i>Journal of Law, Medicine and Ethics</i> , 2016, 44, 394-401.	0.9	7
86	Response to StemCells Inc.. <i>Stem Cell Reports</i> , 2017, 8, 195-197.	4.8	6
87	Freshly Thawed Cryobanked Human Neural Stem Cells Engraft within Endogenous Neurogenic Niches and Restore Cognitive Function after Chronic Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2021, 38, 2731-2746.	3.4	6
88	Feasibility study on mouse live imaging after spinal cord injury and poly(lactide-co-glycolide) bridge implantation. <i>Journal of Biomedical Optics</i> , 2018, 23, 1.	2.6	6
89	PLG Bridge Implantation in Chronic SCI Promotes Axonal Elongation and Myelination. <i>ACS Biomaterials Science and Engineering</i> , 2019, 5, 6679-6690.	5.2	5
90	Online seminars as an information source for direct-to-consumer stem cell therapy. <i>Regenerative Medicine</i> , 2022, 17, 81-90.	1.7	5

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91	Author's response to commentaries. <i>Neurobiology of Aging</i> , 1996, 17, 945-947.	3.1	3
92	Complement C6 deficiency exacerbates pathophysiology after spinal cord injury. <i>Scientific Reports</i> , 2020, 10, 19500.	3.3	3
93	Human Neural Stem Cell-Mediated Repair of the Contused Spinal Cord: Timing the Microenvironment. , 2008, , 297-322.		2
94	The endogenous progenitor response following traumatic brain injury: a target for cell therapy paradigms. <i>Neural Regeneration Research</i> , 2022, 17, 2351.	3.0	2
95	An object relational approach to biomedical database. , 0, , .		1
96	A visual navigation system for querying neural stem cell imaging data. , 2011, , .		1
97	Robust Segmentation and Tracking of Generic Shapes of Neuro-stem Cells. , 2011, , .		0
98	Trophic Factors and Cell Adhesion Molecules Can Drive Dysfunctional Plasticity and Senile Plaque Formation in Alzheimer's Disease through a Breakdown in Spatial and Temporal Regulation. , 1999, , 529-XVI.		0