

# Brandon K Harvey

## List of Publications by Year in descending order

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115  
papers

7,611  
citations

50170

46  
h-index

58464

82  
g-index

118  
all docs

118  
docs citations

118  
times ranked

11465  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemogenetics revealed: DREADD occupancy and activation via converted clozapine. <i>Science</i> , 2017, 357, 503-507.	6.0	813
2	GLP-1 receptor stimulation preserves primary cortical and dopaminergic neurons in cellular and rodent models of stroke and Parkinsonism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1285-1290.	3.3	483
3	Dopaminergic Differentiation of Human Embryonic Stem Cells. <i>Stem Cells</i> , 2004, 22, 925-940.	1.4	329
4	Cortical activation of accumbens hyperpolarization-active NMDARs mediates aversion-resistant alcohol intake. <i>Nature Neuroscience</i> , 2013, 16, 1094-1100.	7.1	281
5	Targeted disruption of cocaine-activated nucleus accumbens neurons prevents context-specific sensitization. <i>Nature Neuroscience</i> , 2009, 12, 1069-1073.	7.1	230
6	Direct wavefront sensing for high-resolution in vivo imaging in scattering tissue. <i>Nature Communications</i> , 2015, 6, 7276.	5.8	208
7	Glutamatergic and Nonglutamatergic Neurons of the Ventral Tegmental Area Establish Local Synaptic Contacts with Dopaminergic and Nondopaminergic Neurons. <i>Journal of Neuroscience</i> , 2010, 30, 218-229.	1.7	202
8	Dietary supplementation with blueberries, spinach, or spirulina reduces ischemic brain damage. <i>Experimental Neurology</i> , 2005, 193, 75-84.	2.0	171
9	Serotonergic versus Nonserotonergic Dorsal Raphe Projection Neurons: Differential Participation in Reward Circuitry. <i>Cell Reports</i> , 2014, 8, 1857-1869.	2.9	170
10	MANF Is Indispensable for the Proliferation and Survival of Pancreatic $\beta^2$ Cells. <i>Cell Reports</i> , 2014, 7, 366-375.	2.9	161
11	Sigma-1 receptors regulate hippocampal dendritic spine formation via a free radical-sensitive mechanism involving Rac1A-GTP pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 22468-22473.	3.3	145
12	Tropism and toxicity of adeno-associated viral vector serotypes 1, 2, 5, 6, 7, 8, and 9 in rat neurons and glia in vitro. <i>Virology</i> , 2008, 372, 24-34.	1.1	129
13	Mesencephalic Astrocyte-derived Neurotrophic Factor (MANF) Secretion and Cell Surface Binding Are Modulated by KDEL Receptors. <i>Journal of Biological Chemistry</i> , 2013, 288, 4209-4225.	1.6	127
14	Astaxanthin reduces ischemic brain injury in adult rats. <i>FASEB Journal</i> , 2009, 23, 1958-1968.	0.2	119
15	FACS purification of immunolabeled cell types from adult rat brain. <i>Journal of Neuroscience Methods</i> , 2012, 203, 10-18.	1.3	119
16	Viral vectors for neurotrophic factor delivery: A gene therapy approach for neurodegenerative diseases of the CNS. <i>Pharmacological Research</i> , 2010, 61, 14-26.	3.1	116
17	State-of-the-art of microbubble-assisted blood-brain barrier disruption. <i>Theranostics</i> , 2018, 8, 4393-4408.	4.6	113
18	CDNF Protects the Nigrostriatal Dopamine System and Promotes Recovery after MPTP Treatment in Mice. <i>Cell Transplantation</i> , 2012, 21, 1213-1223.	1.2	112

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19	Inosine Reduces Ischemic Brain Injury in Rats. <i>Stroke</i> , 2005, 36, 654-659.	1.0	106
20	Role of Ventral Tegmental Area Glial Cell Line-Derived Neurotrophic Factor in Incubation of Cocaine Craving. <i>Biological Psychiatry</i> , 2009, 66, 137-145.	0.7	105
21	Role of Ventral Subiculum in Context-Induced Relapse to Alcohol Seeking after Punishment-Imposed Abstinence. <i>Journal of Neuroscience</i> , 2016, 36, 3281-3294.	1.7	103
22	Exendin-4 Ameliorates Motor Neuron Degeneration in Cellular and Animal Models of Amyotrophic Lateral Sclerosis. <i>PLoS ONE</i> , 2012, 7, e32008.	1.1	101
23	Activation of adenosine A3 receptors reduces ischemic brain injury in rodents. <i>Journal of Neuroscience Research</i> , 2006, 84, 1848-1855.	1.3	98
24	Targeted Over-Expression of Glutamate Transporter 1 (GLT-1) Reduces Ischemic Brain Injury in a Rat Model of Stroke. <i>PLoS ONE</i> , 2011, 6, e22135.	1.1	94
25	Gesicle-Mediated Delivery of CRISPR/Cas9 Ribonucleoprotein Complex for Inactivating the HIV Provirus. <i>Molecular Therapy</i> , 2019, 27, 151-163.	3.7	94
26	KDEL Receptors Are Differentially Regulated to Maintain the ER Proteome under Calcium Deficiency. <i>Cell Reports</i> , 2018, 25, 1829-1840.e6.	2.9	93
27	Role of microglia in ischemic focal stroke and recovery: focus on Toll-like receptors. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 79, 3-14.	2.5	90
28	Lateral Hypothalamic GABAergic Neurons Encode Reward Predictions that Are Relayed to the Ventral Tegmental Area to Regulate Learning. <i>Current Biology</i> , 2017, 27, 2089-2100.e5.	1.8	90
29	Apoptotic and behavioral sequelae of mild brain trauma in mice. <i>Journal of Neuroscience Research</i> , 2007, 85, 805-815.	1.3	88
30	Neuroregenerative effects of BMP7 after stroke in rats. <i>Journal of the Neurological Sciences</i> , 2006, 240, 21-29.	0.3	83
31	FACS Identifies Unique Cocaine-Induced Gene Regulation in Selectively Activated Adult Striatal Neurons. <i>Journal of Neuroscience</i> , 2011, 31, 4251-4259.	1.7	81
32	Ventral Pallidum Is the Primary Target for Accumbens D1 Projections Driving Cocaine Seeking. <i>Journal of Neuroscience</i> , 2019, 39, 2041-2051.	1.7	81
33	Microbubble gas volume: A unifying dose parameter in blood-brain barrier opening by focused ultrasound. <i>Theranostics</i> , 2017, 7, 144-152.	4.6	79
34	Widespread cortical expression of MANF by AAV serotype 7: Localization and protection against ischemic brain injury. <i>Experimental Neurology</i> , 2010, 225, 104-113.	2.0	78
35	The beneficial effect of a prolyl oligopeptidase inhibitor, KYP-2047, on alpha-synuclein clearance and autophagy in A30P transgenic mouse. <i>Neurobiology of Disease</i> , 2014, 68, 1-15.	2.1	75
36	Stroke and TGF- $\beta$ 2 proteins: glial cell line-derived neurotrophic factor and bone morphogenetic protein. <i>Stroke</i> , 2005, 36, 113-125.		71

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37	CYP3A5 Mediates Effects of Cocaine on Human Neocortigenesis: Studies using an In Vitro 3D Self-Organized hPSC Model with a Single Cortex-Like Unit. <i>Neuropsychopharmacology</i> , 2017, 42, 774-784.	2.8	68
38	Diadenosine Tetraphosphate Protects against Injuries Induced by Ischemia and 6-Hydroxydopamine in Rat Brain. <i>Journal of Neuroscience</i> , 2003, 23, 7958-7965.	1.7	64
39	Optogenetic Inhibition of Dorsal Medial Prefrontal Cortex Attenuates Stress-Induced Reinstatement of Palatable Food Seeking in Female Rats. <i>Journal of Neuroscience</i> , 2013, 33, 214-226.	1.7	64
40	Poststroke delivery of MANF promotes functional recovery in rats. <i>Science Advances</i> , 2018, 4, eaap8957.	4.7	64
41	HSV amplicon delivery of glial cell line-derived neurotrophic factor is neuroprotective against ischemic injury. <i>Experimental Neurology</i> , 2003, 183, 47-55.	2.0	63
42	Neuron-Specific Genome Modification in the Adult Rat Brain Using CRISPR-Cas9 Transgenic Rats. <i>Neuron</i> , 2019, 102, 105-119.e8.	3.8	62
43	Methamphetamine activates nuclear factor kappa-light-chain-enhancer of activated B cells (NF- $\kappa$ B) and induces human immunodeficiency virus (HIV) transcription in human microglial cells. <i>Journal of NeuroVirology</i> , 2012, 18, 400-410.	1.0	56
44	Behavioral and Physiological Effects of a Novel Kappa-Opioid Receptor-Based DREADD in Rats. <i>Neuropsychopharmacology</i> , 2016, 41, 402-409.	2.8	56
45	SERCAMP: a carboxy-terminal protein modification that enables monitoring of ER calcium homeostasis. <i>Molecular Biology of the Cell</i> , 2014, 25, 2828-2839.	0.9	54
46	Endogenous GDNF in ventral tegmental area and nucleus accumbens does not play a role in the incubation of heroin craving. <i>Addiction Biology</i> , 2011, 16, 261-272.	1.4	52
47	MPTP-induced deficits in striatal synaptic plasticity are prevented by glial cell line-derived neurotrophic factor expressed via an adeno-associated viral vector. <i>FASEB Journal</i> , 2008, 22, 261-275.	0.2	51
48	Local Administration of AAV-BDNF to Subventricular Zone Induces Functional Recovery in Stroke Rats. <i>PLoS ONE</i> , 2013, 8, e81750.	1.1	51
49	A Low Affinity GCaMP3 Variant (GCaMPer) for Imaging the Endoplasmic Reticulum Calcium Store. <i>PLoS ONE</i> , 2015, 10, e0139273.	1.1	51
50	Update of neurotrophic factors in neurobiology of addiction and future directions. <i>Neurobiology of Disease</i> , 2017, 97, 189-200.	2.1	48
51	High fat diet disrupts endoplasmic reticulum calcium homeostasis in the rat liver. <i>Journal of Hepatology</i> , 2017, 67, 1009-1017.	1.8	45
52	Bone morphogenetic protein-7 reduces toxicity induced by high doses of methamphetamine in rodents. <i>Neuroscience</i> , 2008, 151, 92-103.	1.1	40
53	Trophic activities of endoplasmic reticulum proteins CDNF and MANF. <i>Cell and Tissue Research</i> , 2020, 382, 83-100.	1.5	40
54	Midkine and retinoic acid reduce cerebral infarction induced by middle cerebral artery ligation in rats. <i>Neuroscience Letters</i> , 2004, 369, 138-141.	1.0	39

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55	Post-treatment with amphetamine enhances reinnervation of the ipsilateral side cortex in stroke rats. <i>NeuroImage</i> , 2011, 56, 280-289.	2.1	39
56	Transgenic animal models of neurodegeneration based on human genetic studies. <i>Journal of Neural Transmission</i> , 2011, 118, 27-45.	1.4	38
57	CART Peptide Induces Neuroregeneration in Stroke Rats. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013, 33, 300-310.	2.4	38
58	Post-stroke Intranasal (+)-Naloxone Delivery Reduces Microglial Activation and Improves Behavioral Recovery from Ischemic Injury. <i>ENeuro</i> , 2018, 5, ENEURO.0395-17.2018.	0.9	35
59	Role of Dorsal Striatum Histone Deacetylase 5 in Incubation of Methamphetamine Craving. <i>Biological Psychiatry</i> , 2018, 84, 213-222.	0.7	34
60	Mediation of BMP7 neuroprotection by MAPK and PKC IN rat primary cortical cultures. <i>Brain Research</i> , 2004, 1010, 55-61.	1.1	33
61	Neurotrophic effects of bone morphogenetic protein-7 in a rat model of Parkinson's disease. <i>Brain Research</i> , 2004, 1022, 88-95.	1.1	33
62	9 $\alpha$ -Cis $\alpha$ -Retinoic acid reduces ischemic brain injury in rodents via bone morphogenetic protein. <i>Journal of Neuroscience Research</i> , 2009, 87, 545-555.	1.3	33
63	Genetic deletion of trkB.T1 increases neuromuscular function. <i>American Journal of Physiology - Cell Physiology</i> , 2012, 302, C141-C153.	2.1	32
64	Assaying the Stability and Inactivation of AAV Serotype 1 Vectors. <i>Human Gene Therapy Methods</i> , 2017, 28, 39-48.	2.1	31
65	Development and initial characterization of a novel ghrelin receptor CRISPR/Cas9 knockout wistar rat model. <i>International Journal of Obesity</i> , 2019, 43, 344-354.	1.6	29
66	Functional Consequences of 17q21.31/WNT3-WNT9B Amplification in hPSCs with Respect to Neural Differentiation. <i>Cell Reports</i> , 2015, 10, 616-632.	2.9	28
67	Incretin Mimetics as Rational Candidates for the Treatment of Traumatic Brain Injury. <i>ACS Pharmacology and Translational Science</i> , 2019, 2, 66-91.	2.5	28
68	Hypothalamic proteoglycan syndecan-3 is a novel cocaine addiction resilience factor. <i>Nature Communications</i> , 2013, 4, 1955.	5.8	26
69	Hypothalamic prolyl endopeptidase (PREP) regulates pancreatic insulin and glucagon secretion in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11876-11881.	3.3	26
70	Up-Regulation of A-Type Potassium Currents Protects Neurons Against Cerebral Ischemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 1823-1835.	2.4	24
71	Downregulation of tyrosine hydroxylase phenotype after AAV injection above substantia nigra: Caution in experimental models of Parkinson's disease. <i>Journal of Neuroscience Research</i> , 2018, 97, 346-361.	1.3	24
72	Near-infrared fluorescent protein iRFP713 as a reporter protein for optogenetic vectors, a transgenic Cre-reporter rat, and other neuronal studies. <i>Journal of Neuroscience Methods</i> , 2017, 284, 1-14.	1.3	21

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73	Pre-Î±-pro-GDNF and Pre-Î²-pro-GDNF Isoforms Are Neuroprotective in the 6-hydroxydopamine Rat Model of Parkinson's Disease. <i>Frontiers in Neurology</i> , 2018, 9, 457.	1.1	21
74	Is GDNF beneficial in Parkinson disease?. <i>Nature Reviews Neurology</i> , 2011, 7, 600-602.	4.9	19
75	MANF deletion abrogates early larval <i>Caenorhabditis elegans</i> stress response to tunicamycin and <i>Pseudomonas aeruginosa</i> . <i>European Journal of Cell Biology</i> , 2019, 98, 151043.	1.6	18
76	Molecular profile of the rat peri-infarct region four days after stroke: Study with MANF. <i>Experimental Neurology</i> , 2020, 329, 113288.	2.0	18
77	A target-agnostic screen identifies approved drugs to stabilize the endoplasmic reticulum-resident proteome. <i>Cell Reports</i> , 2021, 35, 109040.	2.9	18
78	The metabolite GLPâ€1 (9â€36) is neuroprotective and antiâ€inflammatory in cellular models of neurodegeneration. <i>Journal of Neurochemistry</i> , 2021, 159, 867-886.	2.1	18
79	Neurotrophic factors for the treatment of Parkinson's disease. <i>Parkinsonism and Related Disorders</i> , 2007, 13, S321-S328.	1.1	17
80	Escalated Alcohol Self-Administration and Sensitivity to Yohimbine-Induced Reinstatement in Alcohol Preferring Rats: Potential Role of Neurokinin-1 Receptors in the Amygdala. <i>Neuroscience</i> , 2019, 413, 77-85.	1.1	17
81	Rapid, longâ€term labeling of cells in the developing and adult rodent visual cortex using doubleâ€stranded adenoâ€associated viral vectors. <i>Developmental Neurobiology</i> , 2009, 69, 674-688.	1.5	16
82	Relapse-Associated Transient Synaptic Potentiation Requires Integrin-Mediated Activation of Focal Adhesion Kinase and Cofilin in D1-Expressing Neurons. <i>Journal of Neuroscience</i> , 2020, 40, 8463-8477.	1.7	16
83	Extracellular esterase activity as an indicator of endoplasmic reticulum calcium depletion. <i>Biomarkers</i> , 2018, 23, 756-765.	0.9	15
84	Diadenosine tetraphosphate reduces toxicity caused by high-dose methamphetamine administration. <i>NeuroToxicology</i> , 2009, 30, 436-444.	1.4	14
85	PDYN, a gene implicated in brain/mental disorders, is targeted by REST in the adult human brain. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2014, 1839, 1226-1232.	0.9	14
86	Methamphetamine induces a rapid increase of intracellular $Ca^{++}$ levels in neurons overexpressing $CaMP$ 5. <i>Addiction Biology</i> , 2016, 21, 255-266.	1.4	14
87	Differential modulation of methamphetamine-mediated behavioral sensitization by overexpression of Mu opioid receptors in nucleus accumbens and ventral tegmental area. <i>Psychopharmacology</i> , 2016, 233, 661-672.	1.5	14
88	9-cis retinoic acid induces neurorepair in stroke brain. <i>Scientific Reports</i> , 2017, 7, 4512.	1.6	14
89	<i>In vitro</i> modeling of HIV proviral activity in microglia. <i>FEBS Journal</i> , 2017, 284, 4096-4114.	2.2	13
90	AAV-mediated targeting of gene expression to the peri-infarct region in rat cortical stroke model. <i>Journal of Neuroscience Methods</i> , 2014, 236, 107-113.	1.3	12

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91	Methamphetamine potentiates behavioral and electrochemical responses after mild traumatic brain injury in mice. <i>Brain Research</i> , 2011, 1368, 248-253.	1.1	11
92	Step Sequence is a Critical Gait Parameter of Unilateral 6-OHDA Parkinson's Rat Models. <i>Cell Transplantation</i> , 2017, 26, 659-667.	1.2	11
93	Longitudinal monitoring of Gaussia and Nano luciferase activities to concurrently assess ER calcium homeostasis and ER stress in vivo. <i>PLoS ONE</i> , 2017, 12, e0175481.	1.1	11
94	Pifithrin-Alpha Reduces Methamphetamine Neurotoxicity in Cultured Dopaminergic Neurons. <i>Neurotoxicity Research</i> , 2019, 36, 347-356.	1.3	11
95	Cas9 Ribonucleoprotein Complex Delivery: Methods and Applications for Neuroinflammation. <i>Journal of NeuroImmune Pharmacology</i> , 2019, 14, 565-577.	2.1	10
96	Administration of AAV-Alpha Synuclein NAC Antibody Improves Locomotor Behavior in Rats Overexpressing Alpha Synuclein. <i>Genes</i> , 2021, 12, 948.	1.0	10
97	Suppression of endogenous PPAR $\beta$ increases vulnerability to methamphetamine-induced injury in mouse nigrostriatal dopaminergic pathway. <i>Psychopharmacology</i> , 2012, 221, 479-492.	1.5	9
98	Monitoring Endoplasmic Reticulum Calcium Homeostasis Using a $\beta$ -Gaussia Luciferase SERCaMP. <i>Journal of Visualized Experiments</i> , 2015, , .	0.2	9
99	Post-treatment with Posiphen Reduces Endoplasmic Reticulum Stress and Neurodegeneration in Stroke Brain. <i>IScience</i> , 2020, 23, 100866.	1.9	9
100	The Function of KDEL Receptors as UPR Genes in Disease. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5436.	1.8	9
101	Effects of Withdrawal from Cocaine Self-Administration on Rat Orbitofrontal Cortex Parvalbumin Neurons Expressing <i>Cre recombinase</i> : Sex-Dependent Changes in Neuronal Function and Unaltered Serotonin Signaling. <i>ENeuro</i> , 2021, 8, ENEURO.0017-21.2021.	0.9	9
102	Gene therapeutic approaches to the treatment of Parkinson's disease. <i>Clinical Neuroscience Research</i> , 2001, 1, 483-495.	0.8	7
103	Tolerance to opiate reward: role of midbrain IRS2-Akt pathway. <i>Nature Neuroscience</i> , 2007, 10, 9-10.	7.1	7
104	An Immortalized Rat Ventral Mesencephalic Cell Line, RTC4, Is Protective in a Rodent Model of Stroke. <i>Cell Transplantation</i> , 2007, 16, 483-491.	1.2	6
105	Neuronal Activation Stimulates Cytomegalovirus Promoter-Driven Transgene Expression. <i>Molecular Therapy - Methods and Clinical Development</i> , 2019, 14, 180-188.	1.8	6
106	Glial Cell Line-Derived Neurotrophic Factor Partially Ameliorates Motor Symptoms without Slowing Neurodegeneration in Mice with Respiratory Chain-Deficient Dopamine Neurons. <i>Cell Transplantation</i> , 2013, 22, 1529-1539.	1.2	5
107	Computational Modeling of C-Terminal Tails to Predict the Calcium-Dependent Secretion of Endoplasmic Reticulum Resident Proteins. <i>Frontiers in Chemistry</i> , 2021, 9, 689608.	1.8	5
108	Inosine, Calcium Channels, and Neuroprotection Against Ischemic Brain Injury. <i>Stroke</i> , 2005, 36, 1823-1823.	1.0	4

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109	Neurons Internalize Functionalized Micron-Sized Silicon Dioxide Microspheres. Cellular and Molecular Neurobiology, 2017, 37, 1487-1499.	1.7	4
110	The overexpression of GDNF in nucleus accumbens suppresses alcohol-seeking behavior in group-housed C57Bl/6J female mice. Journal of Biomedical Science, 2021, 28, 87.	2.6	3
111	Long Evans rat spermatogonial lines are effective germline vectors for transgenic rat production. Transgenic Research, 2017, 26, 477-489.	1.3	2
112	Reducing excitotoxicity with glutamate transporter-1 to treat stroke. Brain Circulation, 2016, 2, 118.	0.7	2
113	Caffeine and MDMA (Ecstasy) Exacerbate ER Stress Triggered by Hyperthermia. International Journal of Molecular Sciences, 2022, 23, 1974.	1.8	2
114	Microbubble volume: A definitive dose parameter in blood-brain barrier opening by focused ultrasound. , 2019, , .		1
115	Identification of ER/SR resident proteins as biomarkers for ER/SR calcium depletion in skeletal muscle cells. Orphanet Journal of Rare Diseases, 2022, 17, .	1.2	1