

# Barry J Hoffer

## List of Publications by Citations

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76  
papers

3,203  
citations

27  
h-index

56  
g-index

82  
ext. papers

3,667  
ext. citations

5.6  
avg, IF

4.82  
L-index

#	Paper	IF	Citations
76	Progressive parkinsonism in mice with respiratory-chain-deficient dopamine neurons. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 1325-30	11.5	448
75	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> , <b>2009</b> , 106, 1285-90	11.5	414
74	Correlation of apomorphine- and amphetamine-induced turning with nigrostriatal dopamine content in unilateral 6-hydroxydopamine lesioned rats. <i>Brain Research</i> , <b>1993</b> , 626, 167-74	3.7	317
73	Amelioration of acute sequelae of blast induced mild traumatic brain injury by N-acetyl cysteine: a double-blind, placebo controlled study. <i>PLoS ONE</i> , <b>2013</b> , 8, e54163	3.7	134
72	Sigma-1 receptors regulate hippocampal dendritic spine formation via a free radical-sensitive mechanism involving Rac1xGTP pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 22468-73	11.5	128
71	Impaired nigrostriatal function precedes behavioral deficits in a genetic mitochondrial model of Parkinson's disease. <i>FASEB Journal</i> , <b>2011</b> , 25, 1333-44	0.9	90
70	Transiently lowering tumor necrosis factor- $\beta$ synthesis ameliorates neuronal cell loss and cognitive impairments induced by minimal traumatic brain injury in mice. <i>Journal of Neuroinflammation</i> , <b>2015</b> , 12, 45	10.1	87
69	Delayed treatment with a p53 inhibitor enhances recovery in stroke brain. <i>Annals of Neurology</i> , <b>2009</b> , 65, 520-30	9.4	85
68	Inhibition of Drp1 mitochondrial translocation provides neural protection in dopaminergic system in a Parkinson's disease model induced by MPTP. <i>Scientific Reports</i> , <b>2016</b> , 6, 32656	4.9	83
67	Tumor necrosis factor- $\beta$ synthesis inhibitor, 3,6'-dithiothalidomide, reverses behavioral impairments induced by minimal traumatic brain injury in mice. <i>Journal of Neurochemistry</i> , <b>2011</b> , 118, 1032-42	6	81
66	Apoptotic and behavioral sequelae of mild brain trauma in mice. <i>Journal of Neuroscience Research</i> , <b>2007</b> , 85, 805-15	4.4	80
65	Exendin-4, a glucagon-like peptide-1 receptor agonist prevents mTBI-induced changes in hippocampus gene expression and memory deficits in mice. <i>Experimental Neurology</i> , <b>2013</b> , 239, 170-82	5.7	70
64	Efficacy of N-acetyl cysteine in traumatic brain injury. <i>PLoS ONE</i> , <b>2014</b> , 9, e90617	3.7	70
63	Changes in mouse cognition and hippocampal gene expression observed in a mild physical- and blast-traumatic brain injury. <i>Neurobiology of Disease</i> , <b>2013</b> , 54, 1-11	7.5	69
62	A New Treatment Strategy for Parkinson's Disease through the Gut-Brain Axis: The Glucagon-Like Peptide-1 Receptor Pathway. <i>Cell Transplantation</i> , <b>2017</b> , 26, 1560-1571	4	66
61	Exendin-4 induced glucagon-like peptide-1 receptor activation reverses behavioral impairments of mild traumatic brain injury in mice. <i>Age</i> , <b>2013</b> , 35, 1621-36		65
60	Mitochondria: A Therapeutic Target for Parkinson's Disease?. <i>International Journal of Molecular Sciences</i> , <b>2015</b> , 16, 20704-30	6.3	65

59	Incretin mimetics as pharmacologic tools to elucidate and as a new drug strategy to treat traumatic brain injury. <i>Alzheimers and Dementia</i> , <b>2014</b> , 10, S62-75	1.2	58
58	Exendin-4 ameliorates traumatic brain injury-induced cognitive impairment in rats. <i>PLoS ONE</i> , <b>2013</b> , 8, e82016	3.7	48
57	Closed head injury in a mouse model results in molecular changes indicating inflammatory responses. <i>Journal of Neurotrauma</i> , <b>2009</b> , 26, 1307-14	5.4	48
56	Blast traumatic brain injury-induced cognitive deficits are attenuated by preinjury or postinjury treatment with the glucagon-like peptide-1 receptor agonist, exendin-4. <i>Alzheimers and Dementia</i> , <b>2016</b> , 12, 34-48	1.2	38
55	Maternally transmitted mitochondrial DNA mutations can reduce lifespan. <i>Scientific Reports</i> , <b>2014</b> , 4, 6569	4.9	34
54	Impact of Traumatic Brain Injury on Dopaminergic Transmission. <i>Cell Transplantation</i> , <b>2017</b> , 26, 1156-1168		31
53	Cognitive Impairments Induced by Concussive Mild Traumatic Brain Injury in Mouse Are Ameliorated by Treatment with Phenserine via Multiple Non-Cholinergic and Cholinergic Mechanisms. <i>PLoS ONE</i> , <b>2016</b> , 11, e0156493	3.7	31
52	Exendin-4 attenuates blast traumatic brain injury induced cognitive impairments, losses of synaptophysin and in vitro TBI-induced hippocampal cellular degeneration. <i>Scientific Reports</i> , <b>2017</b> , 7, 3735	4.9	29
51	Pomalidomide mitigates neuronal loss, neuroinflammation, and behavioral impairments induced by traumatic brain injury in rat. <i>Journal of Neuroinflammation</i> , <b>2016</b> , 13, 168	10.1	28
50	Dopaminergic neuron-specific deletion of p53 gene is neuroprotective in an experimental Parkinson's disease model. <i>Journal of Neurochemistry</i> , <b>2016</b> , 138, 746-57	6	28
49	Post-treatment with PT302, a long-acting Exendin-4 sustained release formulation, reduces dopaminergic neurodegeneration in a 6-Hydroxydopamine rat model of Parkinson's disease. <i>Scientific Reports</i> , <b>2018</b> , 8, 10722	4.9	27
48	Post-traumatic administration of the p53 inactivator pifithrin- $\alpha$ oxygen analogue reduces hippocampal neuronal loss and improves cognitive deficits after experimental traumatic brain injury. <i>Neurobiology of Disease</i> , <b>2016</b> , 96, 216-226	7.5	26
47	Glucose-Dependent Insulinotropic Polypeptide Ameliorates Mild Traumatic Brain Injury-Induced Cognitive and Sensorimotor Deficits and Neuroinflammation in Rats. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 2044-2054	5.4	26
46	(-)-Phenserine and the prevention of pre-programmed cell death and neuroinflammation in mild traumatic brain injury and Alzheimer's disease challenged mice. <i>Neurobiology of Disease</i> , <b>2019</b> , 130, 104528	7.5	22
45	Dopamine release in the nucleus accumbens is altered following traumatic brain injury. <i>Neuroscience</i> , <b>2017</b> , 348, 180-190	3.9	21
44	Repositioning drugs for traumatic brain injury - N-acetyl cysteine and Phenserine. <i>Journal of Biomedical Science</i> , <b>2017</b> , 24, 71	13.3	21
43	The p53 inactivators pifithrin- $\alpha$ and pifithrin- $\beta$ mitigate TBI-induced neuronal damage through regulation of oxidative stress, neuroinflammation, autophagy and mitophagy. <i>Experimental Neurology</i> , <b>2020</b> , 324, 113135	5.7	20
42	Exercise Ameliorates Motor Deficits and Improves Dopaminergic Functions in the Rat Hemi-Parkinson's Model. <i>Scientific Reports</i> , <b>2018</b> , 8, 3973	4.9	17

41	Thioredoxin-Mimetic-Peptides Protect Cognitive Function after Mild Traumatic Brain Injury (mTBI). <i>PLoS ONE</i> , <b>2016</b> , 11, e0157064	3.7	17
40	Post-Injury Neuroprotective Effects of the Thalidomide Analog 3,6'-Dithiothalidomide on Traumatic Brain Injury. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	16
39	Pharmacokinetics and efficacy of PT302, a sustained-release Exenatide formulation, in a murine model of mild traumatic brain injury. <i>Neurobiology of Disease</i> , <b>2019</b> , 124, 439-453	7.5	16
38	Pomalidomide Ameliorates H <sub>2</sub> O <sub>2</sub> -Induced Oxidative Stress Injury and Cell Death in Rat Primary Cortical Neuronal Cultures by Inducing Anti-Oxidative and Anti-Apoptosis Effects. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	16
37	Incretin Mimetics as Rational Candidates for the Treatment of Traumatic Brain Injury. <i>ACS Pharmacology and Translational Science</i> , <b>2019</b> , 2, 66-91	5.9	15
36	Reduced power spectra of heart rate variability are correlated with anxiety in patients with mild traumatic brain injury. <i>Psychiatry Research</i> , <b>2016</b> , 243, 349-56	9.9	15
35	L-Dopa induced dyskinesias in Parkinsonian mice: Disease severity or L-Dopa history. <i>Brain Research</i> , <b>2015</b> , 1618, 261-9	3.7	14
34	Effect of the sonic hedgehog receptor smoothed on the survival and function of dopaminergic neurons. <i>Experimental Neurology</i> , <b>2016</b> , 283, 235-45	5.7	14
33	Neuroprotective Effects and Treatment Potential of Incretin Mimetics in a Murine Model of Mild Traumatic Brain Injury. <i>Frontiers in Cell and Developmental Biology</i> , <b>2019</b> , 7, 356	5.7	14
32	Profound deficits in hippocampal synaptic plasticity after traumatic brain injury and seizure is ameliorated by prophylactic levetiracetam. <i>Oncotarget</i> , <b>2018</b> , 9, 11515-11527	3.3	14
31	3,6'-dithiopomalidomide reduces neural loss, inflammation, behavioral deficits in brain injury and microglial activation. <i>ELife</i> , <b>2020</b> , 9,	8.9	13
30	Time-dependent cytokine and chemokine changes in mouse cerebral cortex following a mild traumatic brain injury. <i>ELife</i> , <b>2020</b> , 9,	8.9	11
29	Pomalidomide Reduces Ischemic Brain Injury in Rodents. <i>Cell Transplantation</i> , <b>2019</b> , 28, 439-450	4	9
28	PT320, Sustained-Release Exendin-4, Mitigates L-DOPA-Induced Dyskinesia in a Rat 6-Hydroxydopamine Model of Parkinson's Disease. <i>Frontiers in Neuroscience</i> , <b>2020</b> , 14, 785	5.1	9
27	Glucose-Dependent Insulinotropic Polypeptide Mitigates 6-OHDA-Induced Behavioral Impairments in Parkinsonian Rats. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	9
26	Voluntary exercise delays progressive deterioration of markers of metabolism and behavior in a mouse model of Parkinson's disease. <i>Brain Research</i> , <b>2019</b> , 1720, 146301	3.7	8
25	Release parameters during progressive degeneration of dopamine neurons in a mouse model reveal earlier impairment of spontaneous than forced behaviors. <i>Journal of Neurochemistry</i> , <b>2019</b> , 150, 56-73	6	8
24	Delayed Dopamine Dysfunction and Motor Deficits in Female Parkinson Model Mice. <i>International Journal of Molecular Sciences</i> , <b>2019</b> , 20,	6.3	8

23	(-)-Phenserine Ameliorates Contusion Volume, Neuroinflammation, and Behavioral Impairments Induced by Traumatic Brain Injury in Mice. <i>Cell Transplantation</i> , <b>2019</b> , 28, 1183-1196	4	7
22	(-)-Phenserine tartrate (PhenT) as a treatment for traumatic brain injury. <i>CNS Neuroscience and Therapeutics</i> , <b>2020</b> , 26, 636-649	6.8	7
21	Differences in Nicotine Encoding Dopamine Release between the Striatum and Shell Portion of the Nucleus Accumbens. <i>Cell Transplantation</i> , <b>2019</b> , 28, 248-261	4	5
20	Effect of traumatic brain injury on nicotine-induced modulation of dopamine release in the striatum and nucleus accumbens shell. <i>Oncotarget</i> , <b>2018</b> , 9, 10016-10028	3.3	5
19	Neurotrophic and neuroprotective effects of a monomeric GLP-1/GIP/Gcg receptor triagonist in cellular and rodent models of mild traumatic brain injury. <i>Experimental Neurology</i> , <b>2020</b> , 324, 113113	5.7	5
18	Levetiracetam prophylaxis ameliorates seizure epileptogenesis after fluid percussion injury. <i>Brain Research</i> , <b>2016</b> , 1642, 581-589	3.7	5
17	-Adamantyl Phthalimidine: A New Thalidomide-like Drug That Lacks Cereblon Binding and Mitigates Neuronal and Synaptic Loss, Neuroinflammation, and Behavioral Deficits in Traumatic Brain Injury and LPS Challenge. <i>ACS Pharmacology and Translational Science</i> , <b>2021</b> , 4, 980-1000	5.9	4
16	Drug Repurposing in the Treatment of Traumatic Brain Injury. <i>Frontiers in Neuroscience</i> , <b>2021</b> , 15, 635483	3.1	4
15	Lower Dopamine D2 Receptor Expression Levels in Human Dopaminergic Neurons Derived From Opioid-Dependent iPSCs. <i>American Journal of Psychiatry</i> , <b>2016</b> , 173, 429-31	11.9	4
14	Role of Nogo Receptor-1 For Recovery of Balance, Cognition, and Emotion after Mild Traumatic Brain Injury in Mice. <i>Journal of Neurotrauma</i> , <b>2019</b> , 36, 1054-1059	5.4	4
13	Sustained Release GLP-1 Agonist PT320 Delays Disease Progression in a Mouse Model of Parkinson's Disease. <i>ACS Pharmacology and Translational Science</i> , <b>2021</b> , 4, 858-869	5.9	4
12	3,6'-Dithiopomalidomide Ameliorates Hippocampal Neurodegeneration, Microgliosis and Astrogliosis and Improves Cognitive Behaviors in Rats with a Moderate Traumatic Brain Injury. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	3
11	Serotonergic Modulation of Ethanol-Induced Electrophysiological Depression in Young and Aged Rats. <i>Alcoholism: Clinical and Experimental Research</i> , <b>2000</b> , 24, 1730-1741	3.7	2
10	Impact of traumatic brain injury on dopaminergic transmission. <i>Cell Transplantation</i> , <b>2017</b> ,	4	2
9	Downregulation of Synuclein Protein Levels by an Intracellular Single-Chain Antibody. <i>Journal of Parkinson's Disease</i> , <b>2020</b> , 10, 573-590	5.3	1
8	Nicotine-Induced Conditional Place Preference Is Affected by Head Injury: Correlation with Dopamine Release in the Nucleus Accumbens Shell. <i>International Journal of Neuropsychopharmacology</i> , <b>2018</b> , 21, 949-961	5.8	1
7	Administration of AAV-Alpha Synuclein NAC Antibody Improves Locomotor Behavior in Rats Overexpressing Alpha Synuclein. <i>Genes</i> , <b>2021</b> , 12,	4.2	1
6	Role of chronic neuroinflammation in neuroplasticity and cognitive function: A hypothesis. <i>Alzheimers and Dementia</i> , <b>2022</b> ,	1.2	1

- 5 CCL5 via GPX1 activation protects hippocampal memory function after mild traumatic brain injury. *Redox Biology*, **2021**, 46, 102067 11.3 ○
- 4 3,6?- and 1,6?-Dithiopomalidomide Mitigate Ischemic Stroke in Rats and Blunt Inflammation. *Pharmaceutics*, **2022**, 14, 950 6.4 ○
- 3 Neuronal Hyperexcitability Following mTBI **2019**, 67-81
- 2 GLUCAGON-LIKE PEPTIDE-1 (GLP-1) RECEPTOR AGONISTS FOR THE TREATMENT OF NEURODEGENERATIVE DISORDERS. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, OR6-4 ○
- 1 Tetrabenazine Mitigates Aberrant Release and Clearance of Dopamine in the Nigrostriatal System, and Alleviates L-DOPA-Induced Dyskinesia in a Mouse Model of Parkinson's Disease. *Journal of Parkinsons Disease*, **2022**, 1-21 5.3