Maria-Trinidad Herrero

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120 papers	5,204 citations	41 h-index	69 g-index
130 ext. papers	5,799 ext. citations	5 avg, IF	5.14 L-index

#	Paper	IF	Citations
120	Functional anatomy of thalamus and basal ganglia. *Childs Nervous System*, **2002**, 18, 386-404	1.7	420
119	Entorhinal cortex of the rat: cytoarchitectonic subdivisions and the origin and distribution of cortical efferents. *Hippocampus*, **1997**, 7, 146-83	3.5	322
118	Re-evaluation of the functional anatomy of the basal ganglia in normal and Parkinsonian states. *Neuroscience*, **1997**, 76, 335-43	3.9	241
117	Subthalamotomy in parkinsonian monkeys. Behavioural and biochemical analysis. *Brain*, **1996**, 119 (Pt 5), 1717-27	11.2	225
116	Evidence of active microglia in substantia nigra pars compacta of parkinsonian monkeys 1 year after MPTP exposure. *Glia*, **2004**, 46, 402-9	9	160
115	Microglial glucocorticoid receptors play a pivotal role in regulating dopaminergic neurodegeneration in parkinsonism. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 6632-7	11.5	159
114	IFN-β signaling, with the synergistic contribution of TNF-α, mediates cell specific microglial and astroglial activation in experimental models of Parkinson's disease. *Cell Death and Disease*, **2011**, 2, e142	9.8	140
113	Consequences of nigrostriatal denervation on the functioning of the basal ganglia in human and nonhuman primates: an in situ hybridization study of cytochrome oxidase subunit I mRNA. *Journal of Neuroscience*, **1997**, 17, 765-73	6.6	139
112	Effects of L-DOPA on preproenkephalin and preprotachykinin gene expression in the MPTP-treated monkey striatum. *Neuroscience*, **1995**, 68, 1189-98	3.9	127
111	Metabolic activity of the basal ganglia in parkinsonian syndromes in human and non-human primates: a cytochrome oxidase histochemistry study. *Neuroscience*, **1996**, 71, 903-12	3.9	103
110	On the neurotoxicity mechanism of leukoaminochrome o-semiquinone radical derived from dopamine oxidation: mitochondria damage, necrosis, and hydroxyl radical formation. *Neurobiology of Disease*, **2004**, 16, 468-77	7.5	99
109	ROCK/Cdc42-mediated microglial motility and gliapse formation lead to phagocytosis of degenerating dopaminergic neurons in vivo. *Scientific Reports*, **2012**, 2, 809	4.9	95
108	Inflammation in Parkinson's disease: role of glucocorticoids. *Frontiers in Neuroanatomy*, **2015**, 9, 32	3.6	91
107	Does neuromelanin contribute to the vulnerability of catecholaminergic neurons in monkeys intoxicated with MPTP?. *Neuroscience*, **1993**, 56, 499-511	3.9	89
106	Extensive loss of brain dopamine and serotonin induced by chronic administration of MPTP in the marmoset. *Brain Research*, **1991**, 567, 127-32	3.7	89
105	Metabolic effects of nigrostriatal denervation in basal ganglia. *Trends in Neurosciences*, **2000**, 23, S78-85	13.3	82
104	Consequence of nigrostriatal denervation and L-dopa therapy on the expression of glutamic acid decarboxylase messenger RNA in the pallidum. *Neurology*, **1996**, 47, 219-24	6.5	79

103	Involvement of the kynurenine pathway in the pathogenesis of Parkinson's disease. *Progress in Neurobiology*, **2017**, 155, 76-95	10.9	78
102	The role of pulsatile versus continuous dopamine receptor stimulation for functional recovery in Parkinson's disease. *European Journal of Neuroscience*, **1994**, 6, 889-97	3.5	78
101	Cognitive rehabilitation in Parkinson's disease: evidence from neuroimaging. *Frontiers in Neurology*, **2011**, 2, 82	4.1	76
100	Changes in vascularization in substantia nigra pars compacta of monkeys rendered parkinsonian. *Journal of Neural Transmission*, **2005**, 112, 1237-48	4.3	75
99	Regulation of metallothionein-III (GIF) mRNA in the brain of patients with Alzheimer disease is not impaired. *Molecular and Chemical Neuropathology*, **1997**, 32, 101-21		67
98	Ontogeny of tyrosine hydroxylase mRNA expression in mid- and forebrain: neuromeric pattern and novel positive regions. *Developmental Dynamics*, **2005**, 234, 709-17	2.9	64
97	Potent and multiple regulatory actions of microglial glucocorticoid receptors during CNS inflammation. *Cell Death and Differentiation*, **2013**, 20, 1546-57	12.7	63
96	Parkinson's disease and inflammatory changes. *Neurotoxicity Research*, **2003**, 5, 411-8	4.3	63
95	No Lewy pathology in monkeys with over 10 years of severe MPTP Parkinsonism. *Movement Disorders*, **2009**, 24, 1519-23	7	62
94	Bidirectional gut-to-brain and brain-to-gut propagation of synucleinopathy in non-human primates. *Brain*, **2020**, 143, 1462-1475	11.2	60
93	Immunocytochemical quantification of tyrosine hydroxylase at a cellular level in the mesencephalon of control subjects and patients with Parkinson's and Alzheimer's disease. *Journal of Neurochemistry*, **1993**, 61, 1024-34	6	57
92	Expression of Bcl-2 in adult human brain regions with special reference to neurodegenerative disorders. *Journal of Neurochemistry*, **1997**, 69, 223-31	6	56
91	Effects of nigrostriatal denervation and L-dopa therapy on the GABAergic neurons in the striatum in MPTP-treated monkeys and Parkinson's disease: an in situ hybridization study of GAD67 mRNA. *European Journal of Neuroscience*, **1995**, 7, 1199-209	3.5	56
90	Metabolic activity of cerebellar and basal ganglia-thalamic neurons is reduced in parkinsonism. *Brain*, **2007**, 130, 265-75	11.2	55
89	Increased plasma levels of TNF-alpha but not of IL1-beta in MPTP-treated monkeys one year after the MPTP administration. *Parkinsonism and Related Disorders*, **2005**, 11, 435-9	3.6	53
88	The involvement of neuroinflammation and kynurenine pathway in Parkinson's disease. *Parkinson's Disease*, **2011**, 2011, 716859	2.6	50
87	GM-1 ganglioside promotes the recovery of surviving midbrain dopaminergic neurons in MPTP-treated monkeys. *Neuroscience*, **1993**, 56, 965-72	3.9	49
86	Subthalamotomy improves MPTP-induced parkinsonism in monkeys. *Stereotactic and Functional Neurosurgery*, **1994**, 62, 98-102	1.6	49

85	Morphological impairments in retinal neurons of the scotopic visual pathway in a monkey model of Parkinson's disease. *Journal of Comparative Neurology*, **2005**, 493, 261-73	3.4	48
84	Nocturnal sleep structure and temperature slope in MPTP treated monkeys. *Journal of Neural Transmission*, **1999**, 106, 1125-34	4.3	48
83	Metalloproteinase-9 contributes to inflammatory glia activation and nigro-striatal pathway degeneration in both mouse and monkey models of 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced Parkinsonism. *Brain Structure and Function*, **2015**, 220, 703-27	4	46
82	Dyskinesia in Parkinson's disease: mechanisms and current non-pharmacological interventions. *Journal of Neurochemistry*, **2014**, 130, 472-89	6	44
81	MPTP-induced parkinsonism in primates: pattern of striatal dopamine loss following acute and chronic administration. *Neuroscience Letters*, **1994**, 175, 121-5	3.3	44
80	Infiltrating CTLs in human glioblastoma establish immunological synapses with tumorigenic cells. *American Journal of Pathology*, **2009**, 175, 786-98	5.8	40
79	Autoradiographic localization and density of [125I]ferrotransferrin binding sites in the basal ganglia of control subjects, patients with Parkinson's disease and MPTP-lesioned monkeys. *Brain Research*, **1995**, 691, 115-24	3.7	38
78	Expression in the mammalian retina of parkin and UCH-L1, two components of the ubiquitin-proteasome system. *Brain Research*, **2010**, 1352, 70-82	3.7	37
77	Evidence for a dopaminergic innervation of the pedunculopontine nucleus in monkeys, and its drastic reduction after MPTP intoxication. *Journal of Neurochemistry*, **2009**, 110, 1321-9	6	37
76	Effects of L-DOPA-therapy on dopamine D2 receptor mRNA expression in the striatum of MPTP-intoxicated parkinsonian monkeys. *Molecular Brain Research*, **1996**, 42, 149-55		37
75	An Update on the Role of Nitric Oxide in the Neurodegenerative Processes of Parkinson's Disease. *Current Medicinal Chemistry*, **2016**, 23, 2666-2679	4.3	37
74	Circadian determinations of cortisol, prolactin and melatonin in chronic methyl-phenyl-tetrahydropyridine-treated monkeys. *Neuroendocrinology*, **2003**, 78, 118-28	5.6	36
73	CCL2-expressing astrocytes mediate the extravasation of T lymphocytes in the brain. Evidence from patients with glioma and experimental models in vivo. *PLoS ONE*, **2012**, 7, e30762	3.7	35
72	Persistent phagocytic characteristics of microglia in the substantia nigra of long-term Parkinsonian macaques. *Journal of Neuroimmunology*, **2013**, 261, 60-6	3.5	34
71	Blood vessels and parkinsonism. *Frontiers in Bioscience - Landmark*, **2004**, 9, 277-82	2.8	32
70	Changes in the neuronal activity in the pedunculopontine nucleus in chronic MPTP-treated primates: an in situ hybridization study of cytochrome oxidase subunit I, choline acetyl transferase and substance P mRNA expression. *Journal of Neural Transmission*, **2007**, 114, 319-26	4.3	31
69	Octodon degus: a model for the cognitive impairment associated with Alzheimer's disease. *CNS Neuroscience and Therapeutics*, **2013**, 19, 643-8	6.8	30
68	Alterations in energy metabolism, neuroprotection and visual signal transduction in the retina of Parkinsonian, MPTP-treated monkeys. *PLoS ONE*, **2013**, 8, e74439	3.7	28

67	The multifaceted role of metalloproteinases in physiological and pathological conditions in embryonic and adult brains. *Progress in Neurobiology*, **2017**, 155, 36-56	10.9	26
66	A New Perspective for the Training Assessment: Machine Learning-Based Neurometric for Augmented User's Evaluation. *Frontiers in Neuroscience*, **2017**, 11, 325	5.1	26
65	Cortically projecting cells in the periaqueductal gray matter of the rat. A retrograde fluorescent tracer study. *Brain Research*, **1991**, 543, 201-12	3.7	25
64	Neuromelanin accumulation with age in catecholaminergic neurons from Macaca fascicularis brainstem. *Developmental Neuroscience*, **1993**, 15, 37-48	2.2	24
63	7-Nitroindazole down-regulates dopamine/DARPP-32 signaling in neostriatal neurons in a rat model of Parkinson's disease. *Neuropharmacology*, **2012**, 63, 1258-67	5.5	23
62	Chronic MPTP treatment reduces substance P and met-enkephalin content in the basal ganglia of the marmoset. *Brain Research*, **1992**, 585, 156-60	3.7	22
61	Striatal expression of substance P and methionin-enkephalin in genes in patients with Parkinson's disease. *Neuroscience Letters*, **1995**, 199, 220-4	3.3	20
60	Behavioral tolerance to repeated apomorphine administration in parkinsonian monkeys. *Journal of the Neurological Sciences*, **1993**, 114, 40-4	3.2	20
59	Vision-based gait impairment analysis for aided diagnosis. *Medical and Biological Engineering and Computing*, **2018**, 56, 1553-1564	3.1	19
58	Chronic alcoholism decreases neuronal nuclear size in the human entorhinal cortex. *Neuroscience Letters*, **1995**, 183, 71-4	3.3	19
57	Differential vulnerability to 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine of dopaminergic and cholinergic neurons in the monkey mesopontine tegmentum. *Brain Research*, **1993**, 624, 281-5	3.7	19
56	Memantine prevents reference and working memory impairment caused by sleep deprivation in both young and aged Octodon degus. *Neuropharmacology*, **2014**, 85, 206-14	5.5	18
55	Measurement of motor disability in MPTP-treated macaques using a telemetry system for estimating circadian motor activity. *Journal of Neuroscience Methods*, **2004**, 134, 59-64	3	18
54	EEG-based Approach-Withdrawal index for the pleasantness evaluation during taste experience in realistic settings. *Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference*, **2017**,	0.9	17
53	Effects of pharmacological agents, sleep deprivation, hypoxia and transcranial magnetic stimulation on electroencephalographic rhythms in rodents: towards translational challenge models for drug discovery in Alzheimer's disease. *Clinical Neurophysiology*, **2013**, 124, 437-51	4.3	17
52	Neuroprotective role of dopamine agonists: evidence from animal models and clinical studies. *Neurologist*, **2011**, 17, S54-66	1.6	17
51	Identification of distinct pathological signatures induced by patient-derived -synuclein structures in nonhuman primates. *Science Advances*, **2020**, 6, eaaz9165	14.3	16
50	CD20, CD3, and CD40 ligand microclusters segregate three-dimensionally in vivo at B-cell-T-cell immunological synapses after viral immunity in primate brain. *Journal of Virology*, **2008**, 82, 9978-93	6.6	16

49	EEG Frontal Asymmetry Related to Pleasantness of Olfactory Stimuli in Young Subjects. *Springer Proceedings in Business and Economics*, **2016**, 373-381	0.2	16
48	Combined 1-Deoxynojirimycin and Ibuprofen Treatment Decreases Microglial Activation, Phagocytosis and Dopaminergic Degeneration in MPTP-Treated Mice. *Journal of NeuroImmune Pharmacology*, **2021**, 16, 390-402	6.9	16
47	Evidence of oligodendrogliosis in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-induced Parkinsonism. *Neuropathology and Applied Neurobiology*, **2013**, 39, 132-43	5.2	15
46	Parkinson's disease and autophagy. *Parkinson's Disease*, **2012**, 2012, 429524	2.6	15
45	Cortical projections from the laterodorsal and dorsal tegmental nuclei. A fluorescent retrograde tracing study in the rat. *Neuroscience Letters*, **1991**, 123, 144-7	3.3	14
44	Visceral signals reach visual cortex during slow wave sleep: study in monkeys. *Acta Neurobiologiae Experimentalis*, **2006**, 66, 69-73	1	13
43	Cognitive Impairment After Sleep Deprivation Rescued by Transcranial Magnetic Stimulation Application in Octodon degus. *Neurotoxicity Research*, **2015**, 28, 361-71	4.3	12
42	Cavernomas in children with brain tumors: a late complication of radiotherapy. *Neurocirugia*, **2008**, 19, 50-4	0.6	12
41	In situ hybridization of GAD mRNA in monkey and human brain: quantification at both regional and cellular levels. *Neuroscience Letters*, **1993**, 157, 57-61	3.3	12
40	Alteration of the PAC1 Receptor Expression in the Basal Ganglia of MPTP-Induced Parkinsonian Macaque Monkeys. *Neurotoxicity Research*, **2018**, 33, 702-715	4.3	11
39	Functional role of Barrington's nucleus in the micturition reflex: relevance in the surgical treatment of Parkinson's disease. *Neuroscience*, **2014**, 266, 150-61	3.9	11
38	Critical evaluation of the anatomical location of the Barrington nucleus: relevance for deep brain stimulation surgery of pedunculopontine tegmental nucleus. *Neuroscience*, **2013**, 247, 351-63	3.9	11
37	Retinal aging in the diurnal Chilean rodent (Octodon degus): histological, ultrastructural and neurochemical alterations of the vertical information processing pathway. *Frontiers in Cellular Neuroscience*, **2015**, 9, 126	6.1	10
36	MPTP administration increases plasma levels of acute phase proteins in non-human primates (Macaca fascicularis). *Neuroscience Letters*, **2009**, 463, 37-9	3.3	10
35	Methods for prospectively incorporating gender into health sciences research. *Journal of Clinical Epidemiology*, **2021**, 129, 191-197	5.7	10
34	Role of Microgliosis and NLRP3 Inflammasome in Parkinson's Disease Pathogenesis and Therapy. *Cellular and Molecular Neurobiology*, **2021**, 1	4.6	9
33	Effect of NAC treatment and physical activity on neuroinflammation in subchronic Parkinsonism; is physical activity essential?. *Journal of Neuroinflammation*, **2018**, 15, 328	10.1	9
32	Local Gastrointestinal Injury Exacerbates Inflammation and Dopaminergic Cell Death in Parkinsonian Mice. *Neurotoxicity Research*, **2019**, 35, 918-930	4.3	8

31	Unexpected Exacerbation of Neuroinflammatory Response After a Combined Therapy in Old Parkinsonian Mice. *Frontiers in Cellular Neuroscience*, **2018**, 12, 451	6.1	8
30	Transcranial magnetic stimulation and aging: Effects on spatial learning and memory after sleep deprivation in Octodon degus. *Neurobiology of Learning and Memory*, **2015**, 125, 274-81	3.1	7
29	Increase of secondary processes of microglial and astroglial cells after MPTP-induced degeneration in substantia nigra pars compacta of non human primates. *Journal of Neural Transmission Supplementum*, **2009**, 253-8		7
28	[125I]EGF binding in basal ganglia of patients with Parkinson's disease and progressive supranuclear palsy and in MPTP-treated monkeys. *Experimental Neurology*, **1998**, 154, 146-56	5.7	7
27	A role for DJ-1 against oxidative stress in the mammalian retina. *Neuroscience Letters*, **2019**, 708, 134361	3.3	6
26	Inflammatory response in Parkinsonism. *Journal of Neural Transmission Supplementum*, **2009**, 245-52		6
25	Increased mRNA expression of cytochrome oxidase in dorsal raphe nucleus of depressive suicide victims. *Neuropsychiatric Disease and Treatment*, **2008**, 4, 413-6	3.1	6
24	Alpha-theta effects associated with ageing during the Stroop test. *PLoS ONE*, **2014**, 9, e95657	3.7	6
23	Transcranial Magnetic Stimulation on Rodent Models. *CNS and Neurological Disorders - Drug Targets* , **2016**, 15, 756-64	2.6	6
22	Cardiac Noradrenaline Turnover and Heat Shock Protein 27 Phosphorylation in Dyskinetic Monkeys. *Movement Disorders*, **2020**, 35, 698-703	7	6
21	Electrical stimulation or MK-801 in the inferior colliculus improve motor deficits in MPTP-treated mice. *NeuroToxicology*, **2018**, 65, 38-43	4.4	5
20	Identification of differentially expressed genes profiles in a combined mouse model of Parkinsonism and colitis. *Scientific Reports*, **2020**, 10, 13147	4.9	5
19	Octodon degus: a natural model of multimorbidity for ageing research. *Ageing Research Reviews*, **2020**, 64, 101204	12	4
18	Determinants of perceived health and unmet healthcare needs in universal healthcare systems with high gender equality. *BMC Public Health*, **2021**, 21, 1488	4.1	4
17	Dopamine modulation affects the performance of parkinsonian patients in a precision motor task measured by an antropomorphic device. *Human Movement Science*, **2012**, 31, 730-42	2.4	3
16	Identification and inclusion of gender factors in retrospective cohort studies: the GOING-FWD framework. *BMJ Global Health*, **2021**, 6,	6.6	3
15	Could Small Heat Shock Protein HSP27 Be a First-Line Target for Preventing Protein Aggregation in Parkinson's Disease?. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
14	Voluntary exercise reduces plasma cortisol levels and improves transitory memory impairment in young and aged Octodon degus. *Behavioural Brain Research*, **2019**, 373, 112066	3.4	2

13	Blood Vessels And Neurodegeneration In Parkinson's Disease. *Advances in Behavioral Biology*, **2002**, 341-347		2
12	A Causal Role for the Right Dorsolateral Prefrontal Cortex in Avoidance of Risky Choices and Making Advantageous Selections. *Neuroscience*, **2021**, 458, 166-179	3.9	2
11	Heart Matters: Cardiac Dysfunction and Other Autonomic Changes in Parkinson's Disease. *Neuroscientist*, **2021**, 1073858421990000	7.6	2
10	Sex, Gender, and Cardiovascular Health in Canadian and Austrian Populations. *Canadian Journal of Cardiology*, **2021**, 37, 1240-1247	3.8	2
9	Role of GDF-15, YKL-40 and MMP 9 in patients with end-stage kidney disease: focus on sex-specific associations with vascular outcomes and all-cause mortality. *Biology of Sex Differences*, **2021**, 12, 50	9.3	2
8	Cardiac Changes in Parkinson's Disease: Lessons from Clinical and Experimental Evidence.. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	2
7	Aminochrome Induces Neuroinflammation and Dopaminergic Neuronal Loss: A New Preclinical Model to Find Anti-inflammatory and Neuroprotective Drugs for Parkinson's Disease.. *Cellular and Molecular Neurobiology*, **2022**, 1	4.6	1
6	Brain injections of glial cytoplasmic inclusions induce a multiple system atrophy-like pathology.. *Brain*, **2022**,	11.2	1
5	Cardiac tyrosine hydroxylase activation and MB-COMT in dyskinetic monkeys. *Scientific Reports*, **2021**, 11, 19871	4.9	1
4	Study of the Link Between Neuronal Death, Glial Response, and MAPK Pathway in Old Parkinsonian Mice. *Frontiers in Aging Neuroscience*, **2020**, 12, 214	5.3	1
3	Anatomo-Chemical Organization of the Basal Ganglia Circuitry in the Normal and Parkinsonian States. *Advances in Behavioral Biology*, **2002**, 521-530		
2	Modulatory Role of NK1 Receptors in the Basal Ganglia. Studies in NK1-/- Mice **2005**, 151-159		
1	MPTP: Advances from an Evergreen Neurotoxin **2022**, 1-32		