Tomas R Guilarte

List of Publications by Citations

52 papers	4,298 citations	30 h-index	54 g-index
54 ext. papers	4,737 ext. citations	6 avg, IF	5.89 L-index

#	Paper	IF	Citations
52	Translocator protein (18kDa): new nomenclature for the peripheral-type benzodiazepine receptor based on its structure and molecular function. *Trends in Pharmacological Sciences*, **2006**, 27, 402-9	13.2	1097
51	Translocator protein 18 kDa (TSPO): molecular sensor of brain injury and repair **2008**, 118, 1-17		377
50	Manganese and Parkinson's disease: a critical review and new findings. *Environmental Health Perspectives*, **2010**, 118, 1071-80	8.4	243
49	Cellular and subcellular localization of peripheral benzodiazepine receptors after trimethyltin neurotoxicity. *Journal of Neurochemistry*, **2000**, 74, 1694-704	6	174
48	Environmental enrichment reverses cognitive and molecular deficits induced by developmental lead exposure. *Annals of Neurology*, **2003**, 53, 50-6	9.4	166
47	Neuroinflammation and brain atrophy in former NFL players: An in vivo multimodal imaging pilot study. *Neurobiology of Disease*, **2015**, 74, 58-65	7.5	160
46	Nigrostriatal dopamine system dysfunction and subtle motor deficits in manganese-exposed non-human primates. *Experimental Neurology*, **2006**, 202, 381-90	5.7	150
45	Manganese neurotoxicity: new perspectives from behavioral, neuroimaging, and neuropathological studies in humans and non-human primates. *Frontiers in Aging Neuroscience*, **2013**, 5, 23	5.3	121
44	Impairment of nigrostriatal dopamine neurotransmission by manganese is mediated by pre-synaptic mechanism(s): implications to manganese-induced parkinsonism. *Journal of Neurochemistry*, **2008**, 107, 1236-47	6	121
43	Peripheral benzodiazepine receptor imaging in CNS demyelination: functional implications of anatomical and cellular localization. *Brain*, **2004**, 127, 1379-92	11.2	119
42	Mechanisms of lead and manganese neurotoxicity. *Toxicology Research*, **2013**, 2, 99-114	2.6	109
41	Imaging of Glial Cell Activation and White Matter Integrity in Brains of Active and Recently Retired National Football League Players. *JAMA Neurology*, **2017**, 74, 67-74	17.2	101
40	Increased APLP1 expression and neurodegeneration in the frontal cortex of manganese-exposed non-human primates. *Journal of Neurochemistry*, **2008**, 105, 1948-59	6	96
39	Evidence for cortical dysfunction and widespread manganese accumulation in the nonhuman primate brain following chronic manganese exposure: a 1H-MRS and MRI study. *Toxicological Sciences*, **2006**, 94, 351-8	4.4	93
38	Translocator protein (18 kDa)/peripheral benzodiazepine receptor specific ligands induce microglia functions consistent with an activated state. *Glia*, **2011**, 59, 219-30	9	86
37	TSPO in diverse CNS pathologies and psychiatric disease: A critical review and a way forward. *Pharmacology & Therapeutics*, **2019**, 194, 44-58	13.9	84
36	Effects of chronic manganese exposure on cognitive and motor functioning in non-human primates. *Brain Research*, **2006**, 1118, 222-31	3.7	80

35	Sex and genetic differences in the effects of acute diesel exhaust exposure on inflammation and oxidative stress in mouse brain. *Toxicology*, **2016**, 374, 1-9	4.4	78
34	Dysregulation of BDNF-TrkB signaling in developing hippocampal neurons by Pb(2+): implications for an environmental basis of neurodevelopmental disorders. *Toxicological Sciences*, **2012**, 127, 277-95	4.4	69
33	Is lead exposure in early life an environmental risk factor for Schizophrenia? Neurobiological connections and testable hypotheses. *NeuroToxicology*, **2012**, 33, 560-74	4.4	68
32	Manganese-Induced Parkinsonism Is Not Idiopathic Parkinson's Disease: Environmental and Genetic Evidence. *Toxicological Sciences*, **2015**, 146, 204-12	4.4	66
31	Selective decrease in NR1 subunit splice variant mRNA in the hippocampus of Pb2+-exposed rats: implications for synaptic targeting and cell surface expression of NMDAR complexes. *Molecular Brain Research*, **2003**, 113, 37-43		64
30	APLP1, Alzheimer's-like pathology and neurodegeneration in the frontal cortex of manganese-exposed non-human primates. *NeuroToxicology*, **2010**, 31, 572-4	4.4	63
29	Manganese inhibits NMDA receptor channel function: implications to psychiatric and cognitive effects. *NeuroToxicology*, **2007**, 28, 1147-52	4.4	61
28	Imaging the peripheral benzodiazepine receptor response in central nervous system demyelination and remyelination. *Toxicological Sciences*, **2006**, 91, 532-9	4.4	55
27	The peripheral benzodiazepine receptor is a sensitive indicator of domoic acid neurotoxicity. *Brain Research*, **1997**, 751, 281-8	3.7	50
26	Manganese exposure induces -synuclein aggregation in the frontal cortex of non-human primates. *Toxicology Letters*, **2013**, 217, 177-83	4.4	49
25	TSPO Finds NOX2 in Microglia for Redox Homeostasis. *Trends in Pharmacological Sciences*, **2016**, 37, 334-343	13.2	45
24	An extended simplified reference tissue model for the quantification of dynamic PET with amphetamine challenge. *NeuroImage*, **2006**, 33, 550-63	7.9	37
23	Dysregulation of glutamate carboxypeptidase II in psychiatric disease. *Schizophrenia Research*, **2008** , 99, 324-32	3.6	35
22	Beyond the looking glass: recent advances in understanding the impact of environmental exposures on neuropsychiatric disease. *Neuropsychopharmacology*, **2020**, 45, 1086-1096	8.7	27
21	In Vivo Imaging of Peripheral Benzodiazepine Receptors in Mouse Lungs: A Biomarker of Inflammation. *Molecular Imaging*, **2005**, 4, 7290.2005.05133	3.7	26
20	Manganese and Parkinson's disease: a critical review and new findings. *Ciencia E Saude Coletiva*, **2011**, 16, 4549-66	2.2	24
19	Glutamate carboxypeptidase II levels in rodent brain using [125I]DCIT quantitative autoradiography. *Neuroscience Letters*, **2005**, 387, 141-4	3.3	23
18	Presynaptic mechanisms of lead neurotoxicity: effects on vesicular release, vesicle clustering and mitochondria number. *PLoS ONE*, **2015**, 10, e0127461	3.7	19

17	TSPO in a murine model of Sandhoff disease: presymptomatic marker of neurodegeneration and disease pathophysiology. *Neurobiology of Disease*, **2016**, 85, 174-186	7.5	12
16	Awake delta and theta-rhythmic hippocampal network modes during intermittent locomotor behaviors in the rat. *Behavioral Neuroscience*, **2020**, 134, 529-546	2.1	11
15	A Novel Interaction of Translocator Protein 18 kDa (TSPO) with NADPH Oxidase in Microglia. *Molecular Neurobiology*, **2020**, 57, 4467-4487	6.2	11
14	Novel BAC Mouse Model of Huntington's Disease with 225 CAG Repeats Exhibits an Early Widespread and Stable Degenerative Phenotype. *Journal of Huntington's Disease*, **2015**, 4, 17-36	1.9	8
13	PET imaging of dopamine release in the frontal cortex of manganese-exposed non-human primates. *Journal of Neurochemistry*, **2019**, 150, 188-201	6	6
12	Chronic early life lead (Pb) exposure alters presynaptic vesicle pools in hippocampal synapses. *BMC Pharmacology & Toxicology*, **2016**, 17, 56	2.6	4
11	From the Cover: 7,8-Dihydroxyflavone Rescues Lead-Induced Impairment of Vesicular Release: A Novel Therapeutic Approach for Lead Intoxicated Children. *Toxicological Sciences*, **2018**, 161, 186-195	4.4	3
10	Imaging neuroinflammation with TSPO: A new perspective on the cellular sources and subcellular localization. *Pharmacology & Therapeutics*, **2021**, 108048	13.9	1
9	Surface translocator protein 18 kDa (TSPO) localization on immune cells upon stimulation with LPS and in ART-treated HIV subjects. *Journal of Leukocyte Biology*, **2021**, 110, 123-140	6.5	1
8	Residential Lead-Hazard Interventions, Childhood Anxiety, and Cognitive Impairment. *JAMA Pediatrics*, **2019**, 173, 198-199	8.3	1
7	Chronic developmental lead exposure increases opiate receptor levels in the adolescent rat brain. *NeuroToxicology*, **2021**, 82, 119-129	4.4	1
6	The Translocator Protein () Genetic Polymorphism A147T Is Associated with Worse Survival in Male Glioblastoma Patients. *Cancers*, **2021**, 13,	6.6	1
5	Clinical Utility of Functional Precision Medicine in the Management of Recurrent/Relapsed Childhood Rhabdomyosarcoma. *JCO Precision Oncology*, **2021**, 5,	3.6	0
4	Behavioral and neurochemical studies of inherited manganese-induced dystonia-parkinsonism in Slc39a14-knockout mice. *Neurobiology of Disease*, **2021**, 158, 105467	7.5	0
3	Letter to the Editor: Regarding Foster et al., Neonatal C57BL/6J and parkin mice respond differently following developmental manganese exposure: Result of a high dose pilot study. *NeuroToxicology*, **2018**, 69, 187	4.4	
2	A generalized reference tissue model for quantification of dynamic PET with bolus plus continuous infusion tracer administration and pharmacological challenge. *Journal of Cerebral Blood Flow and Metabolism*, **2005**, 25, S645-S645	7.3	
1	Race as a moderator of the association between ethnicity, preeclampsia and neonatal respiratory distress syndrome. *World Journal of Pediatrics*,	4.6	