

# Tomas R Guilarte

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4969917/publications.pdf>

Version: 2024-02-01

53  
papers

5,183  
citations

159573

30  
h-index

214788

47  
g-index

54  
all docs

54  
docs citations

54  
times ranked

5819  
citing authors

#	ARTICLE	IF	CITATIONS
1	Translocator protein (18kDa): new nomenclature for the peripheral-type benzodiazepine receptor based on its structure and molecular function. Trends in Pharmacological Sciences, 2006, 27, 402-409.	8.7	1,237
2	Translocator protein 18kDa (TSPO): Molecular sensor of brain injury and repair. , 2008, 118, 1-17.		428
3	Manganese and Parkinson's Disease: A Critical Review and New Findings. Environmental Health Perspectives, 2010, 118, 1071-1080.	6.0	297
4	Neuroinflammation and brain atrophy in former NFL players: An in vivo multimodal imaging pilot study. Neurobiology of Disease, 2015, 74, 58-65.	4.4	208
5	Cellular and Subcellular Localization of Peripheral Benzodiazepine Receptors After Trimethyltin Neurotoxicity. Journal of Neurochemistry, 2000, 74, 1694-1704.	3.9	196
6	Environmental enrichment reverses cognitive and molecular deficits induced by developmental lead exposure. Annals of Neurology, 2003, 53, 50-56.	5.3	183
7	Nigrostriatal dopamine system dysfunction and subtle motor deficits in manganese-exposed non-human primates. Experimental Neurology, 2006, 202, 381-390.	4.1	170
8	Mechanisms of lead and manganese neurotoxicity. Toxicology Research, 2013, 2, 99.	2.1	160
9	Manganese neurotoxicity: new perspectives from behavioral, neuroimaging, and neuropathological studies in humans and non-human primates. Frontiers in Aging Neuroscience, 2013, 5, 23.	3.4	156
10	Impairment of nigrostriatal dopamine neurotransmission by manganese is mediated by pre-synaptic mechanism(s): implications to manganese-induced parkinsonism. Journal of Neurochemistry, 2008, 107, 1236-1247.	3.9	141
11	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.	9.0	134
12	Peripheral benzodiazepine receptor imaging in CNS demyelination: functional implications of anatomical and cellular localization. Brain, 2004, 127, 1379-1392.	7.6	124
13	TSPO in diverse CNS pathologies and psychiatric disease: A critical review and a way forward. , 2019, 194, 44-58.		119
14	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, 351-358.	3.1	110
15	Increased APLP1 expression and neurodegeneration in the frontal cortex of manganese-exposed non-human primates. Journal of Neurochemistry, 2008, 105, 1948-1959.	3.9	105
16	Translocator protein (18 kDa)/peripheral benzodiazepine receptor specific ligands induce microglia functions consistent with an activated state. Glia, 2011, 59, 219-230.	4.9	101
17	Manganese-Induced Parkinsonism Is Not Idiopathic Parkinson's Disease: Environmental and Genetic Evidence. Toxicological Sciences, 2015, 146, 204-212.	3.1	101
18	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.	4.2	101

#	ARTICLE	IF	CITATIONS
19	Effects of chronic manganese exposure on cognitive and motor functioning in non-human primates. <i>Brain Research</i> , 2006, 1118, 222-231.	2.2	87
20	Dysregulation of BDNF-TrkB Signaling in Developing Hippocampal Neurons by Pb <sup>2+</sup> : Implications for an Environmental Basis of Neurodevelopmental Disorders. <i>Toxicological Sciences</i> , 2012, 127, 277-295.	3.1	86
21	Is lead exposure in early life an environmental risk factor for Schizophrenia? Neurobiological connections and testable hypotheses. <i>NeuroToxicology</i> , 2012, 33, 560-574.	3.0	82
22	APLP1, Alzheimer's-like pathology and neurodegeneration in the frontal cortex of manganese-exposed non-human primates. <i>NeuroToxicology</i> , 2010, 31, 572-574.	3.0	78
23	Selective decrease in NR1 subunit splice variant mRNA in the hippocampus of Pb <sup>2+</sup> -exposed rats: implications for synaptic targeting and cell surface expression of NMDAR complexes. <i>Molecular Brain Research</i> , 2003, 113, 37-43.	2.3	68
24	Manganese inhibits NMDA receptor channel function: Implications to psychiatric and cognitive effects. <i>NeuroToxicology</i> , 2007, 28, 1147-1152.	3.0	66
25	Imaging the Peripheral Benzodiazepine Receptor Response in Central Nervous System Demyelination and Remyelination. <i>Toxicological Sciences</i> , 2006, 91, 532-539.	3.1	61
26	Manganese exposure induces $\alpha$ -synuclein aggregation in the frontal cortex of non-human primates. <i>Toxicology Letters</i> , 2013, 217, 177-183.	0.8	61
27	TSPO Finds NOX2 in Microglia for Redox Homeostasis. <i>Trends in Pharmacological Sciences</i> , 2016, 37, 334-343.	8.7	57
28	The peripheral benzodiazepine receptor is a sensitive indicator of domoic acid neurotoxicity. <i>Brain Research</i> , 1997, 751, 281-288.	2.2	56
29	An extended simplified reference tissue model for the quantification of dynamic PET with amphetamine challenge. <i>NeuroImage</i> , 2006, 33, 550-563.	4.2	42
30	Imaging neuroinflammation with TSPO: A new perspective on the cellular sources and subcellular localization. , 2022, 234, 108048.		42
31	Dysregulation of glutamate carboxypeptidase II in psychiatric disease. <i>Schizophrenia Research</i> , 2008, 99, 324-332.	2.0	40
32	Beyond the looking glass: recent advances in understanding the impact of environmental exposures on neuropsychiatric disease. <i>Neuropsychopharmacology</i> , 2020, 45, 1086-1096.	5.4	39
33	Awake delta and theta-rhythmic hippocampal network modes during intermittent locomotor behaviors in the rat.. <i>Behavioral Neuroscience</i> , 2020, 134, 529-546.	1.2	36
34	In Vivo Imaging of Peripheral Benzodiazepine Receptors in Mouse Lungs: A Biomarker of Inflammation. <i>Molecular Imaging</i> , 2005, 4, 7290.2005.05133.	1.4	33
35	Glutamate carboxypeptidase II levels in rodent brain using [ <sup>125</sup> I]DCIT quantitative autoradiography. <i>Neuroscience Letters</i> , 2005, 387, 141-144.	2.1	28
36	Manganese and Parkinson's disease: a critical review and new findings. <i>Ciencia E Saude Coletiva</i> , 2011, 16, 4519-4566.	0.5	26

#	ARTICLE	IF	CITATIONS
37	Presynaptic Mechanisms of Lead Neurotoxicity: Effects on Vesicular Release, Vesicle Clustering and Mitochondria Number. <i>PLoS ONE</i> , 2015, 10, e0127461.	2.5	24
38	A Novel Interaction of Translocator Protein 18kDa (TSPO) with NADPH Oxidase in Microglia. <i>Molecular Neurobiology</i> , 2020, 57, 4467-4487.	4.0	17
39	Novel BAC Mouse Model of Huntington's Disease with 225 CAG Repeats Exhibits an Early Widespread and Stable Degenerative Phenotype. <i>Journal of Huntington's Disease</i> , 2015, 4, 17-36.	1.9	15
40	TSPO in a murine model of Sandhoff disease: presymptomatic marker of neurodegeneration and disease pathophysiology. <i>Neurobiology of Disease</i> , 2016, 85, 174-186.	4.4	14
41	PET imaging of dopamine release in the frontal cortex of manganese-exposed non-human primates. <i>Journal of Neurochemistry</i> , 2019, 150, 188-201.	3.9	9
42	Chronic developmental lead exposure increases $\mu$ -opioid receptor levels in the adolescent rat brain. <i>NeuroToxicology</i> , 2021, 82, 119-129.	3.0	8
43	Behavioral and neurochemical studies of inherited manganese-induced dystonia-parkinsonism in Slc39a14-knockout mice. <i>Neurobiology of Disease</i> , 2021, 158, 105467.	4.4	8
44	Surface translocator protein 18 kDa (TSPO) localization on immune cells upon stimulation with LPS and in ART-treated HIV+ subjects. <i>Journal of Leukocyte Biology</i> , 2021, 110, 123-140.	3.3	6
45	Chronic early life lead (Pb2+) exposure alters presynaptic vesicle pools in hippocampal synapses. <i>BMC Pharmacology &amp; Toxicology</i> , 2016, 17, 56.	2.4	5
46	Neurochemistry of lead and manganese. <i>Metallomics</i> , 2016, 8, 561-562.	2.4	5
47	From the Cover: 7,8-Dihydroxyflavone Rescues Lead-Induced Impairment of Vesicular Release: A Novel Therapeutic Approach for Lead Intoxicated Children. <i>Toxicological Sciences</i> , 2018, 161, 186-195.	3.1	5
48	The Translocator Protein (TSPO) Genetic Polymorphism A147T Is Associated with Worse Survival in Male Glioblastoma Patients. <i>Cancers</i> , 2021, 13, 4525.	3.7	4
49	Clinical Utility of Functional Precision Medicine in the Management of Recurrent/Relapsed Childhood Rhabdomyosarcoma. <i>JCO Precision Oncology</i> , 2021, 5, 1659-1665.	3.0	3
50	Residential Lead-Hazard Interventions, Childhood Anxiety, and Cognitive Impairment. <i>JAMA Pediatrics</i> , 2019, 173, 198.	6.2	1
51	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. <i>NeuroToxicology</i> , 2018, 69, 187.	3.0	0
52	A generalized reference tissue model for quantification of dynamic PET with bolus plus continuous infusion tracer administration and pharmacological challenge. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2005, 25, S645-S645.	4.3	0
53	Race as a moderator of the association between ethnicity, preeclampsia and neonatal respiratory distress syndrome. <i>World Journal of Pediatrics</i> , 0, , .	1.8	0