

# João M N Duarte

## List of Publications by Year in descending order

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Version: 2024-02-01

65  
papers

2,449  
citations

201674

27  
h-index

233421

45  
g-index

71  
all docs

71  
docs citations

71  
times ranked

3266  
citing authors

#	ARTICLE	IF	CITATIONS
1	The neurochemical profile quantified by in vivo 1H NMR spectroscopy. <i>NeuroImage</i> , 2012, 61, 342-362.	4.2	199
2	Caffeine consumption attenuates neurochemical modifications in the hippocampus of streptozotocin-induced diabetic rats. <i>Journal of Neurochemistry</i> , 2009, 111, 368-379.	3.9	133
3	Caffeine Consumption Prevents Diabetes-Induced Memory Impairment and Synaptotoxicity in the Hippocampus of NONcZNO10/LTJ Mice. <i>PLoS ONE</i> , 2012, 7, e21899.	2.5	119
4	Modification upon aging of the density of presynaptic modulation systems in the hippocampus. <i>Neurobiology of Aging</i> , 2009, 30, 1877-1884.	3.1	117
5	N-Acetylcysteine Normalizes Neurochemical Changes in the Glutathione-Deficient Schizophrenia Mouse Model During Development. <i>Biological Psychiatry</i> , 2012, 71, 1006-1014.	1.3	100
6	Longitudinal neurochemical modifications in the aging mouse brain measured in vivo by 1H magnetic resonance spectroscopy. <i>Neurobiology of Aging</i> , 2014, 35, 1660-1668.	3.1	90
7	Neurochemical Modifications in the Hippocampus, Cortex and Hypothalamus of Mice Exposed to Long-Term High-Fat Diet. <i>Frontiers in Neuroscience</i> , 2018, 12, 985.	2.8	88
8	Glutamatergic and GABAergic energy metabolism measured in the rat brain by <sup>13</sup> C NMR spectroscopy at 14.1 T. <i>Journal of Neurochemistry</i> , 2013, 126, 579-590.	3.9	71
9	Compartmentalized Cerebral Metabolism of [1,6- <sup>13</sup> C]Glucose Determined by in vivo <sup>13</sup> C NMR Spectroscopy at 14.1 T. <i>Frontiers in Neuroenergetics</i> , 2011, 3, 3.	5.3	70
10	Metabolic Alterations Associated to Brain Dysfunction in Diabetes. , 2015, 6, 304-21.		70
11	How Energy Metabolism Supports Cerebral Function: Insights from <sup>13</sup> C Magnetic Resonance Studies In vivo. <i>Frontiers in Neuroscience</i> , 2017, 11, 288.	2.8	64
12	In vivo enzymatic activity of acetylCoA synthetase in skeletal muscle revealed by <sup>13</sup> C turnover from hyperpolarized [1- <sup>13</sup> C]acetate to [1- <sup>13</sup> C]acetylcarnitine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2013, 1830, 4171-4178.	2.4	61
13	Modification of adenosine A1 and A2A receptor density in the hippocampus of streptozotocin-induced diabetic rats. <i>Neurochemistry International</i> , 2006, 48, 144-150.	3.8	60
14	Brain Metabolism Alterations in Type 2 Diabetes: What Did We Learn From Diet-Induced Diabetes Models?. <i>Frontiers in Neuroscience</i> , 2020, 14, 229.	2.8	54
15	Neurochemical profile of the developing mouse cortex determined by in vivo <sup>1</sup> H NMR spectroscopy at 14.1 T and the effect of recurrent anaesthesia. <i>Journal of Neurochemistry</i> , 2010, 115, 1466-1477.	3.9	51
16	The C57BL/6J Mouse Exhibits Sporadic Congenital Portosystemic Shunts. <i>PLoS ONE</i> , 2013, 8, e69782.	2.5	51
17	Metabolic Flux and Compartmentation Analysis in the Brain In vivo. <i>Frontiers in Endocrinology</i> , 2013, 4, 156.	3.5	47
18	Modification of purinergic signaling in the hippocampus of streptozotocin-induced diabetic rats. <i>Neuroscience</i> , 2007, 149, 382-391.	2.3	46

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19	Compartmentalised energy metabolism supporting glutamatergic neurotransmission in response to increased activity in the rat cerebral cortex: A <sup>13</sup> C MRS study <i>in vivo</i> at 14.1 T. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2016, 36, 928-940.	4.3	46
20	Astrocytic and neuronal oxidative metabolism are coupled to the rate of glutamate-glutamine cycle in the tree shrew visual cortex. <i>Glia</i> , 2018, 66, 477-491.	4.9	45
21	Magnetic Resonance Spectroscopy in Schizophrenia: Evidence for Glutamatergic Dysfunction and Impaired Energy Metabolism. <i>Neurochemical Research</i> , 2019, 44, 102-116.	3.3	44
22	Mitochondria and the Brain: Bioenergetics and Beyond. <i>Neurotoxicity Research</i> , 2019, 36, 219-238.	2.7	41
23	Cerebral Glutamine Metabolism under Hyperammonemia Determined <i>in vivo</i> by Localized <sup>1</sup> H and <sup>15</sup> N NMR Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 696-708.	4.3	40
24	Glutathione Deficit Affects the Integrity and Function of the Fimbria/Fornix and Anterior Commissure in Mice: Relevance for Schizophrenia. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyv110.	2.1	40
25	Impact of Caffeine Consumption on Type 2 Diabetes-Induced Spatial Memory Impairment and Neurochemical Alterations in the Hippocampus. <i>Frontiers in Neuroscience</i> , 2018, 12, 1015.	2.8	40
26	High-fat diet consumption alters energy metabolism in the mouse hypothalamus. <i>International Journal of Obesity</i> , 2019, 43, 1295-1304.	3.4	37
27	Metabolic Disturbances in Diseases with Neurological Involvement. , 2014, 5, 238-55.		36
28	Characterization of cerebral glucose dynamics <i>in vivo</i> with a four-state conformational model of transport at the blood-brain barrier. <i>Journal of Neurochemistry</i> , 2012, 121, 396-406.	3.9	35
29	Brain metabolic alterations in mice subjected to postnatal traumatic stress and in their offspring. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2017, 37, 2423-2432.	4.3	35
30	Increase of cannabinoid CB1 receptor density in the hippocampus of streptozotocin-induced diabetic rats. <i>Experimental Neurology</i> , 2007, 204, 479-484.	4.1	34
31	Taurine Supplementation as a Neuroprotective Strategy upon Brain Dysfunction in Metabolic Syndrome and Diabetes. <i>Nutrients</i> , 2022, 14, 1292.	4.1	33
32	Alterations of Brain Energy Metabolism in Type 2 Diabetic Goto-Kakizaki Rats Measured In Vivo by <sup>13</sup> C Magnetic Resonance Spectroscopy. <i>Neurotoxicity Research</i> , 2019, 36, 268-278.	2.7	29
33	Different metabolism of glutamatergic and GABAergic compartments in superfused hippocampal slices characterized by nuclear magnetic resonance spectroscopy. <i>Neuroscience</i> , 2007, 144, 1305-1313.	2.3	28
34	CB1 receptor activation inhibits neuronal and astrocytic intermediary metabolism in the rat hippocampus. <i>Neurochemistry International</i> , 2012, 60, 1-8.	3.8	27
35	Cognitive Impairment and Metabolite Profile Alterations in the Hippocampus and Cortex of Male and Female Mice Exposed to a Fat and Sugar-Rich Diet are Normalized by Diet Reversal. , 2022, 13, 267.		27
36	Steady-state brain glucose transport kinetics re-evaluated with a four-state conformational model. <i>Frontiers in Neuroenergetics</i> , 2009, 1, 6.	5.3	26

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37	Deep thiopental anesthesia alters steady-state glucose homeostasis but not the neurochemical profile of rat cortex. <i>Journal of Neuroscience Research</i> , 2010, 88, 413-419.	2.9	24
38	Adenosine A <sub>1</sub> receptors control the metabolic recovery after hypoxia in rat hippocampal slices. <i>Journal of Neurochemistry</i> , 2016, 136, 947-957.	3.9	23
39	Brain energy metabolism measured by <sup>13</sup> C magnetic resonance spectroscopy in vivo upon infusion of [ <sup>3-<sup>13</sup>C</sup> ]lactate. <i>Journal of Neuroscience Research</i> , 2015, 93, 1009-1018.	2.9	21
40	Glycogen Supercompensation in the Rat Brain After Acute Hypoglycemia is Independent of Glucose Levels During Recovery. <i>Neurochemical Research</i> , 2017, 42, 1629-1635.	3.3	19
41	Direct <i>in vivo</i> measurement of glycine and the neurochemical profile in the rat medulla oblongata. <i>NMR in Biomedicine</i> , 2010, 23, 1097-1102.	2.8	18
42	Lactate and glutamate dynamics during prolonged stimulation of the rat barrel cortex suggest adaptation of cerebral glucose and oxygen metabolism. <i>Neuroscience</i> , 2017, 346, 337-348.	2.3	16
43	Glycogen metabolism is impaired in the brain of male type 2 diabetic Goto-Kakizaki rats. <i>Journal of Neuroscience Research</i> , 2019, 97, 1004-1017.	2.9	16
44	Imaging of prolonged BOLD response in the somatosensory cortex of the rat. <i>NMR in Biomedicine</i> , 2015, 28, 414-421.	2.8	15
45	Social isolation stress and chronic glutathione deficiency have a common effect on the glutamine-to-glutamate ratio and myo-inositol concentration in the mouse frontal cortex. <i>Journal of Neurochemistry</i> , 2017, 142, 767-775.	3.9	15
46	Increased hepatic fatty acid polyunsaturation precedes ectopic lipid deposition in the liver in adaptation to high-fat diets in mice. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2018, 31, 341-354.	2.0	15
47	Energy metabolism in the rat cortex under thiopental anaesthesia measured <i>In Vivo</i> by <sup>13</sup> C MRS. <i>Journal of Neuroscience Research</i> , 2017, 95, 2297-2306.	2.9	14
48	Refined Analysis of Brain Energy Metabolism Using In Vivo Dynamic Enrichment of <sup>13</sup> C Multiplets. <i>ASN Neuro</i> , 2016, 8, 175909141663234.	2.7	13
49	Evaluation of the Impact of Diabetes on Retinal Metabolites by NMR Spectroscopy. <i>Current Eye Research</i> , 2010, 35, 992-1001.	1.5	12
50	Which prior knowledge? Quantification of in vivo brain <sup>13</sup> C MR spectra following <sup>13</sup> C glucose infusion using AMARES. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1512-1522.	3.0	12
51	Brain Glucose Transport and Phosphorylation Under Acute Insulin-Induced Hypoglycemia in Mice: An <sup>18</sup> F-FDG PET Study. <i>Journal of Nuclear Medicine</i> , 2013, 54, 2153-2160.	5.0	11
52	Feasibility of in vivo measurement of glucose metabolism in the mouse hypothalamus by <sup>13</sup> C MRS at 14.1T. <i>Magnetic Resonance in Medicine</i> , 2018, 80, 874-884.	3.0	11
53	Metabolism in the Diabetic Brain: Neurochemical Profiling by <sup>1</sup> H Magnetic Resonance Spectroscopy. <i>Diabetes &amp; Metabolic Disorders</i> , 2016, 3, 1-6.	0.1	10
54	<sup>13</sup> C MRS glucose mapping and <sup>18</sup> F-PET joining forces: re-evaluation of the lumped constant in the rat brain under isoflurane anaesthesia. <i>Journal of Neurochemistry</i> , 2014, 129, 672-682.	3.9	9

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55	A glucose-stimulated BOLD fMRI study of hypothalamic dysfunction in mice fed a high-fat and high-sucrose diet. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 1734-1743.	4.3	9
56	Activatable MRI probes for the specific detection of bacteria. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7353-7362.	3.7	7
57	Hormone-sensitive lipase is localized at synapses and is necessary for normal memory functioning in mice. <i>Journal of Lipid Research</i> , 2022, 63, 100195.	4.2	7
58	Sphingosine 1-Phosphate Receptors are Located in Synapses and Control Spontaneous Activity of Mouse Neurons in Culture. <i>Neurochemical Research</i> , 2022, 47, 3114-3125.	3.3	5
59	Dynamic alterations in the central glutamatergic status following food and glucose intake: <i>in vivo</i> multimodal assessments in humans and animal models. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2021, 41, 2928-2943.	4.3	4
60	Cerebral Glucose Transport and Homeostasis. <i>Advances in Neurobiology</i> , 2012, , 655-673.	1.8	4
61	Transient gain of function of cannabinoid CB1 receptors in the control of frontocortical glucose consumption in a rat model of Type-1 diabetes. <i>Brain Research Bulletin</i> , 2020, 161, 106-115.	3.0	3
62	Loss of biliverdin reductase (BVR) impairs beneficial effects of CNS insulin on brain energy metabolism favoring the development of Alzheimer's disease (AD) neuropathology. <i>Alzheimer's and Dementia</i> , 2020, 16, e039511.	0.8	0
63	Hippocampal metabolism and memory impairment in diet-induced insulin-resistant mice are reversed by diet normalization. <i>Alzheimer's and Dementia</i> , 2020, 16, e041031.	0.8	0
64	Editorial: Mechanisms of Neuronal Recovery in the Central Nervous System. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 733066.	3.7	0
65	Taurine and N-acetylcysteine supplementation prevents memory impairment in high-fat diet-fed female mice. <i>Alzheimer's and Dementia</i> , 2021, 17, .	0.8	0