

Cristina Cudalbu

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,759
citations

236925

25
h-index

197818

49
g-index

63
all docs

63
docs citations

63
times ranked

3509
citing authors

#	ARTICLE	IF	CITATIONS
1	Clinical Proton MR Spectroscopy in Central Nervous System Disorders. <i>Radiology</i> , 2014, 270, 658-679.	7.3	524
2	Methodological consensus on clinical proton MRS of the brain: Review and recommendations. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 527-550.	3.0	280
3	Ammonia toxicity to the brain. <i>Journal of Inherited Metabolic Disease</i> , 2013, 36, 595-612.	3.6	224
4	Minimum Reporting Standards for in vivo Magnetic Resonance Spectroscopy (MRSinMRS): Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4484.	2.8	144
5	¹ H NMR spectroscopy of rat brain in vivo at 14.1Tesla: Improvements in quantification of the neurochemical profile. <i>Journal of Magnetic Resonance</i> , 2008, 194, 163-168.	2.1	105
6	Feasibility of in vivo ¹⁵ N MRS detection of hyperpolarized ¹⁵ N labeled choline in rats. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 5818.	2.8	96
7	Contribution of macromolecules to brain ¹ H MR spectra: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4393.	2.8	92
8	Creatine in the central nervous system: From magnetic resonance spectroscopy to creatine deficiencies. <i>Analytical Biochemistry</i> , 2017, 529, 144-157.	2.4	88
9	Handling Macromolecule Signals in the Quantification of the Neurochemical Profile. <i>Journal of Alzheimer's Disease</i> , 2012, 31, S101-S115.	2.6	78
10	Terminology and concepts for the characterization of in vivo MR spectroscopy methods and MR spectra: Background and experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4347.	2.8	69
11	¹ H shimming for in vivo magnetic resonance spectroscopy: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4350.	2.8	60
12	Longitudinal neurometabolic changes in the hippocampus of a rat model of chronic hepatic encephalopathy. <i>Journal of Hepatology</i> , 2019, 71, 505-515.	3.7	55
13	Hyperpolarized lithium- ⁶ as a sensor of nanomolar contrast agents. <i>Magnetic Resonance in Medicine</i> , 2009, 61, 1489-1493.	3.0	53
14	The C57BL/6J Mouse Exhibits Sporadic Congenital Portosystemic Shunts. <i>PLoS ONE</i> , 2013, 8, e69782.	2.5	51
15	Comparison of ¹ T ₁ relaxation times of the neurochemical profile in rat brain at 9.4 tesla and 14.1 tesla. <i>Magnetic Resonance in Medicine</i> , 2009, 62, 862-867.	3.0	42
16	¹ H and ³¹ P magnetic resonance spectroscopy in a rat model of chronic hepatic encephalopathy: in vivo longitudinal measurements of brain energy metabolism. <i>Metabolic Brain Disease</i> , 2016, 31, 1303-1314.	2.9	42
17	Quantification of the neurochemical profile using simulated macromolecule resonances at 3 T. <i>NMR in Biomedicine</i> , 2013, 26, 593-599.	2.8	41
18	Cerebral Glutamine Metabolism under Hyperammonemia Determined <i>in vivo</i> by Localized ¹ H and ¹⁵ N NMR Spectroscopy. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012, 32, 696-708.	4.3	40

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19	Proton and Phosphorus Magnetic Resonance Spectroscopy of a Mouse Model of Alzheimer's Disease. <i>Journal of Alzheimer's Disease</i> , 2012, 31, S87-S99.	2.6	40
20	Brain Edema in Chronic Hepatic Encephalopathy. <i>Journal of Clinical and Experimental Hepatology</i> , 2019, 9, 362-382.	0.9	38
21	Influence of measured and simulated basis sets on metabolite concentration estimates. <i>NMR in Biomedicine</i> , 2008, 21, 627-636.	2.8	36
22	Diffusion-weighted spectroscopy: A novel approach to determine macromolecule resonances in short echo time ¹ H-MRS. <i>Magnetic Resonance in Medicine</i> , 2010, 64, 939-946.	3.0	36
23	Quantification of in vivo short echo-time proton magnetic resonance spectra at 14.1 T using two different approaches of modelling the macromolecule spectrum. <i>Measurement Science and Technology</i> , 2009, 20, 104034.	2.6	35
24	2021 ISHEN guidelines on animal models of hepatic encephalopathy. <i>Liver International</i> , 2021, 41, 1474-1488.	3.9	34
25	Brain edema: a valid endpoint for measuring hepatic encephalopathy?. <i>Metabolic Brain Disease</i> , 2016, 31, 1249-1258.	2.9	25
26	In vivo studies of brain metabolism in animal models of Hepatic Encephalopathy using ¹ H Magnetic Resonance Spectroscopy. <i>Metabolic Brain Disease</i> , 2013, 28, 167-174.	2.9	22
27	The first knock-in rat model for glutaric aciduria type I allows further insights into pathophysiology in brain and periphery. <i>Molecular Genetics and Metabolism</i> , 2021, 133, 157-181.	1.1	22
28	Effect of Manganese Chloride on the Neurochemical Profile of the Rat Hypothalamus. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 2324-2333.	4.3	21
29	MRS studies of neuroenergetics and glutamate/glutamine exchange in rats: Extensions to hyperammonemic models. <i>Analytical Biochemistry</i> , 2017, 529, 245-269.	2.4	20
30	Probiotics improve the neurometabolic profile of rats with chronic cholestatic liver disease. <i>Scientific Reports</i> , 2021, 11, 2269.	3.3	19
31	A new rat model of creatine transporter deficiency reveals behavioral disorder and altered brain metabolism. <i>Scientific Reports</i> , 2021, 11, 1636.	3.3	18
32	<i>In vivo</i> metabolic profiling of glioma-initiating cells using proton magnetic resonance spectroscopy at 14.1 Tesla. <i>NMR in Biomedicine</i> , 2012, 25, 506-513.	2.8	17
33	<i>In vivo</i> brain macromolecule signals in healthy and glioblastoma mouse models: ¹ H magnetic resonance spectroscopy, post-processing and metabolite quantification at 14.1 T. <i>Journal of Neurochemistry</i> , 2014, 129, 806-815.	3.9	17
34	In vivo macromolecule signals in rat brain ¹ H-MR spectra at 9.4T: Parametrization, spline baseline estimation, and T ₂ relaxation times. <i>Magnetic Resonance in Medicine</i> , 2021, 86, 2384-2401.	3.0	17
35	<i>In vivo</i> characterization of brain metabolism by ¹ H MRS, ¹³ C MRS and ¹⁸ F-FDG PET reveals significant glucose oxidation of invasively growing glioma cells. <i>International Journal of Cancer</i> , 2018, 143, 127-138.	5.1	16
36	<i>In vivo</i> ¹³ C MRS in the mouse brain at 14.1 Tesla and metabolic flux quantification under infusion of [1,6- ¹³ C] ₂ glucose. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2018, 38, 1701-1714.	4.3	16

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37	Hyperpolarized ¹³ C-glucose magnetic resonance highlights reduced aerobic glycolysis in vivo in infiltrative glioblastoma. <i>Scientific Reports</i> , 2021, 11, 5771.	3.3	13
38	Longitudinal osmotic and neurometabolic changes in young rats with chronic cholestatic liver disease. <i>Scientific Reports</i> , 2020, 10, 7536.	3.3	13
39	Abnormal brain oxygen homeostasis in an animal model of liver disease. <i>JHEP Reports</i> , 2022, , 100509.	4.9	13
40	Which prior knowledge? Quantification of in vivo brain ¹³ C MR spectra following ¹³ C glucose infusion using AMARES. <i>Magnetic Resonance in Medicine</i> , 2013, 69, 1512-1522.	3.0	12
41	Estimation of metabolite concentrations of healthy mouse brain by magnetic resonance spectroscopy at 7ÅT. <i>Comptes Rendus Chimie</i> , 2006, 9, 534-538.	0.5	11
42	Single spin-echo T 2 relaxation times of cerebral metabolites at 14.1 T in the in vivo rat brain. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2013, 26, 549-554.	2.0	11
43	Probiotics combined with rifaximin influence the neurometabolic changes in a rat model of type C HE. <i>Scientific Reports</i> , 2021, 11, 17988.	3.3	10
44	Magnetic resonance spectroscopy in the rodent brain: Experts' consensus recommendations. <i>NMR in Biomedicine</i> , 2021, 34, e4325.	2.8	9
45	PET CMRglc mapping and 1H-MRS show altered glucose uptake and neurometabolic profiles in BDL rats. <i>Analytical Biochemistry</i> , 2022, 647, 114606.	2.4	9
46	Metabolic and transcriptomic profiles of glioblastoma invasion revealed by comparisons between patients and corresponding orthotopic xenografts in mice. <i>Acta Neuropathologica Communications</i> , 2021, 9, 133.	5.2	7
47	Creatine transporter-deficient rat model shows motor dysfunction, cerebellar alterations, and muscle creatine deficiency without muscle atrophy. <i>Journal of Inherited Metabolic Disease</i> , 2022, 45, 278-291.	3.6	7
48	In Vivo Longitudinal 1H MRS Study of Transgenic Mouse Models of Prion Disease in the Hippocampus and Cerebellum at 14.1ÅT. <i>Neurochemical Research</i> , 2015, 40, 2639-2646.	3.3	6
49	Rat brain metabolite relaxation time estimates using magnetic resonance spectroscopy at two different field strengths. <i>Comptes Rendus Chimie</i> , 2008, 11, 442-447.	0.5	5
50	P: ³³ P In Vivo Longitudinal 1H MRS Study of Hippocampal, Cerebral and Striatal Metabolic Changes in the Adult Brain Using an Animal Model of Chronic Hepatic Encephalopathy. <i>American Journal of Gastroenterology</i> , 2019, 114, S17-S17.	0.4	5
51	Late post-natal neurometabolic development in healthy male rats using 1 H and 31 P magnetic resonance spectroscopy. <i>Journal of Neurochemistry</i> , 2021, 157, 508-519.	3.9	4
52	Comparison of two approaches to model the macromolecule spectrum for the quantification of short TE ¹ H MRS spectra. , 2008, , .		3
53	Optimized MEGA-SPECIAL for in vivo glutamine detection in the rat brain at 14.1ÅT. <i>NMR in Biomedicine</i> , 2014, 27, 1151-1158.	2.8	2
54	Editorial for the special issue on introduction to in vivo Magnetic Resonance Spectroscopy (MRS): A method to non-invasively study metabolism. <i>Analytical Biochemistry</i> , 2017, 529, 1-3.	2.4	2

#	ARTICLE	IF	CITATIONS
55	Reply to: "Magnetic resonance spectroscopy: A surrogate marker of hepatic encephalopathy?" Journal of Hepatology, 2019, 71, 1057.	3.7	2
56	Brain metabolite concentration estimates using Magnetic Resonance Spectroscopy in a chronic model of temporal lobe epilepsy. Comptes Rendus Chimie, 2008, 11, 434-441.	0.5	1
57	P: 37 "Probiotics Combined With Rifaximin for the Treatment of Chronic Hepatic Encephalopathy: A Longitudinal In Vivo 1H-MRS Study of Brain Metabolism Using BDL Rats. American Journal of Gastroenterology, 2019, 114, S19-S19.	0.4	1
58	Methods Magnetic Resonance Spectroscopy for the Measurement of In Vivo Brain Metabolism. , 2021, , 701-711.		0