

Estimation of metabolite concentrations from localized

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Citation Report

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1	Advanced neuroimaging techniques in children with traumatic brain injury. , 2010, , 68-93.		5
2	Proton spectroscopy of human stroke: Assessment of transverse relaxation times and partial volume effects in single volume STEAM MRS. Magnetic Resonance Imaging, 1994, 12, 1227-1235.	1.0	26
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4	Localized proton magnetic resonance spectroscopy of cerebral abnormalities in children with carbohydrate-deficient glycoprotein syndrome. Acta Paediatrica, International Journal of Paediatrics, 1995, 84, 781-786.	0.7	24
5	Hemimegalencephaly: Localized Proton Magnetic Resonance Spectroscopy In Vivo. Epilepsia, 1995, 36, 1215-1224.	2.6	38
6	Relative Concentrations of Proton MR Visible Neurochemicals in Gray and White Matter in Human Brain. Magnetic Resonance in Medicine, 1995, 33, 755-759.	1.9	74
7	The use of a priori knowledge to quantify short echo in vivo 1H mr spectra. Magnetic Resonance in Medicine, 1995, 34, 17-24.	1.9	109
9	In vivo quantitation of metabolite concentrations in the brain by means of proton MRS. NMR in Biomedicine, 1995, 8, 139-148.	1.6	91
10	Dynamic monitoring of cerebral metabolites during and after transient global ischemia in rats by quantitative proton NMR spectroscopy in vivo. NMR in Biomedicine, 1995, 8, 265-270.	1.6	28
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18	Improvement of measurement precision in absorption spectra by apodization. Magnetic Resonance in Medicine, 1996, 35, 917-920.	1.9	0
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22	An In Vivo Proton Magnetic Resonance Spectroscopy Study of Schizophrenia Patients. <i>Schizophrenia Bulletin</i> , 1996, 22, 597-609.	2.3	97
23	Proton MR spectroscopy of the brain: clinically useful information obtained in assessing CNS diseases in children.. <i>American Journal of Roentgenology</i> , 1996, 167, 191-199.	1.0	54
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1841	Glutathione deficit impairs myelin maturation: relevance for white matter integrity in schizophrenia patients. <i>Molecular Psychiatry</i> , 2015, 20, 827-838.	4.1	95
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1846	Persistent modification of forebrain networks and metabolism in rats following adolescent exposure to a 5-HT7 receptor agonist. <i>Psychopharmacology</i> , 2015, 232, 75-89.	1.5	33
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1848	Predictive Value of 1 Month Postoperative MRSI and FDG-PET Evaluations of Glioblastomas. <i>OMICS Journal of Radiology</i> , 2016, 05, .	0.0	1
1849	Multi-voxel proton magnetic resonance spectroscopy changes in neuropsychiatric lupus patients. <i>South African Journal of Radiology</i> , 2016, 20, .	0.1	1
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1851	Positive Effect of Impairment-Oriented Training on N-Acetylaspartate Levels of Ipsilesional Motor Cortex in Subcortical Stroke: A Case Study. <i>International Journal of Physical Medicine &amp; Rehabilitation</i> , 2016, 04, .	0.5	1
1852	Reduced $^3\text{H}$ -Aminobutyric Acid and Glutamate+Glutamine Levels in Drug-Naïve Patients with First-Episode Schizophrenia but Not in Those at Ultrahigh Risk. <i>Neural Plasticity</i> , 2016, 2016, 1-9.	1.0	34
1853	Hitchhiker'S Guide to Voxel Segmentation for Partial Volume Correction of in Vivo Magnetic Resonance Spectroscopy. <i>Magnetic Resonance Insights</i> , 2016, 9, MRI.S32903.	2.5	57
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1856	Neurochemical and Neuroanatomical Plasticity Following Memory Training and Yoga Interventions in Older Adults with Mild Cognitive Impairment. <i>Frontiers in Aging Neuroscience</i> , 2016, 8, 277.	1.7	43
1857	An Exploratory Study of Spectroscopic Glutamatergic Correlates of Cortical Excitability in Depressed Adolescents. <i>Frontiers in Neural Circuits</i> , 2016, 10, 98.	1.4	11

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1859	On the Effect of Sex on Prefrontal and Cerebellar Neurometabolites in Healthy Adults: An MRS Study. <i>Frontiers in Human Neuroscience</i> , 2016, 10, 367.	1.0	11
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1861	Compound heterozygous variants in PGAP1 causing severe psychomotor retardation, brain atrophy, recurrent apneas and delayed myelination: a case report and literature review. <i>BMC Neurology</i> , 2016, 16, 74.	0.8	19
1862	Non-invasive detection of 2-hydroxyglutarate in IDH-mutated gliomas using two-dimensional localized correlation spectroscopy (2D L-COSY) at 7 Tesla. <i>Journal of Translational Medicine</i> , 2016, 14, 274.	1.8	35
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1867	Regional brain volumes, diffusivity, and metabolite changes after electroconvulsive therapy for severe depression. <i>Acta Psychiatrica Scandinavica</i> , 2016, 133, 154-164.	2.2	89
1868	Assessment of brain metabolite correlates of adeno-associated virus-mediated overexpression of human alpha-synuclein in cortical neurons by <i>in vivo</i> $^1\text{H}$ -MRS spectroscopy at 9.4 T. <i>Journal of Neurochemistry</i> , 2016, 137, 806-819.	2.1	3
1869	Proton spectroscopy study of the dorsolateral prefrontal cortex in youth with familial depression. <i>Psychiatry and Clinical Neurosciences</i> , 2016, 70, 269-277.	1.0	20
1870	Liver transplantation significantly improves global functioning and cerebral processing. <i>Liver Transplantation</i> , 2016, 22, 1379-1390.	1.3	35
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1874	Metabolite and macromolecule $T_1$ and $T_2$ relaxation times in the rat brain in vivo at 17.2T. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 503-514.	1.9	38
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1877	A semiadiabatic spectral-spatial spectroscopic imaging (SASSI) sequence for improved high-field MR spectroscopic imaging. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1071-1082.	1.9	8
1878	Hierarchical non-negative matrix factorization applied to three-dimensional 3T MRSI data for automatic tissue characterization of the prostate. <i>NMR in Biomedicine</i> , 2016, 29, 751-758.	1.6	12
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1881	Optimized PRESS sequence timings for measuring glycine at 9.4 T: demonstration <i>in vivo</i> in rat brain. <i>Biomedical Physics and Engineering Express</i> , 2016, 2, 027003.	0.6	0
1882	The age dependence of T <sub>2</sub> relaxation times of N-acetyl aspartate, creatine and choline in the human brain at 3 and 4T. <i>NMR in Biomedicine</i> , 2016, 29, 284-292.	1.6	14
1883	Hippocampal Neurometabolite Changes in Hypothyroidism: An <i>In Vivo</i> <sup>1</sup> H Magnetic Resonance Spectroscopy Study Before and After Thyroxine Treatment. <i>Journal of Neuroendocrinology</i> , 2016, 28, .	1.2	11
1885	MR spectroscopy for <i>in vivo</i> assessment of the oncometabolite 2-hydroxyglutarate and its effects on cellular metabolism in human brain gliomas at 9.4T. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 44, 823-833.	1.9	36
1886	Motion correction and frequency stabilization for MRS of the human spinal cord. <i>NMR in Biomedicine</i> , 2016, 29, 490-498.	1.6	8
1887	Brain <sup>3</sup> -aminobutyric acid (GABA) detection <i>in vivo</i> with the J-editing <sup>1</sup> H MRS technique: a comprehensive methodological evaluation of sensitivity enhancement, macromolecule contamination and test-retest reliability. <i>NMR in Biomedicine</i> , 2016, 29, 932-942.	1.6	65
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1893	Magnetic Resonance Spectroscopy discriminates the response to microglial stimulation of wild type and Alzheimer's disease models. <i>Scientific Reports</i> , 2016, 6, 19880.	1.6	32
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1897	Prefrontal NAA and Glx Levels in Different Stages of Psychotic Disorders: a 3T 1H-MRS Study. <i>Scientific Reports</i> , 2016, 6, 21873.	1.6	48
1898	Functional assessment of glioma pathogenesis by in vivo multi-parametric magnetic resonance imaging and in vitro analyses. <i>Scientific Reports</i> , 2016, 6, 26050.	1.6	9
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1902	Predicting motor outcomes with 3 month prone hip angles in premature infants. <i>Journal of Pediatric Rehabilitation Medicine</i> , 2016, 9, 231-236.	0.3	4
1903	Increased GABA concentrations in type 2 diabetes mellitus are related to lower cognitive functioning. <i>Medicine (United States)</i> , 2016, 95, e4803.	0.4	35
1904	DCE-MRI, DW-MRI, and MRS in Cancer. <i>Topics in Magnetic Resonance Imaging</i> , 2016, 25, 245-254.	0.7	36
1905	Systematic Evaluation of Amide Proton Chemical Exchange Saturation Transfer at 3 T. <i>Investigative Radiology</i> , 2016, 51, 635-646.	3.5	23
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1908	In Vivo Neurochemical Characterization of Developing Guinea Pigs and the Effect of Chronic Fetal Hypoxia. <i>Neurochemical Research</i> , 2016, 41, 1831-1843.	1.6	8
1909	Attenuated traumatic axonal injury and improved functional outcome after traumatic brain injury in mice lacking <i>Sarm1</i> . <i>Brain</i> , 2016, 139, 1094-1105.	3.7	155
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1911	A comprehensive analysis of metabolic changes in the salvaged penumbra. <i>Neuroradiology</i> , 2016, 58, 409-415.	1.1	12
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1914	Tryptophan Metabolism and White Matter Integrity in Schizophrenia. <i>Neuropsychopharmacology</i> , 2016, 41, 2587-2595.	2.8	60
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1918	Glutamate concentrations vary with antiepileptic drug use and mental slowing. <i>Epilepsy and Behavior</i> , 2016, 64, 200-205.	0.9	9
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1922	Methodology of Clinical MRS: Technical Challenges and Solutions. , 2016, , 31-54.		0
1924	Chronic psychosocial stress in mice leads to changes in brain functional connectivity and metabolite levels comparable to human depression. <i>NeuroImage</i> , 2016, 142, 544-552.	2.1	80
1925	Cortical and subcortical glutathione levels in adults with autism spectrum disorder. <i>Autism Research</i> , 2016, 9, 429-435.	2.1	19
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1928	Magnetic Resonance Spectroscopy of Degenerative Brain Diseases. <i>Contemporary Clinical Neuroscience</i> , 2016, , .	0.3	3
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1933	Diagnostic and prognostic value of in vivo proton MR spectroscopy for Zellweger syndrome spectrum patients. <i>Journal of Inherited Metabolic Disease</i> , 2016, 39, 869-876.	1.7	4
1934	Cortical thickness and metabolite concentration in chronic stroke and the relationship with motor function. <i>Restorative Neurology and Neuroscience</i> , 2016, 34, 733-746.	0.4	18
1935	Improving the diagnostic yield of magnetic resonance spectroscopy for pediatric brain tumors through mathematical optimization. <i>Journal of Mathematical Chemistry</i> , 2016, 54, 1461-1513.	0.7	18
1936	Main Effects of Diagnoses, Brain Regions, and their Interaction Effects for Cerebral Metabolites in Bipolar and Unipolar Depressive Disorders. <i>Scientific Reports</i> , 2016, 6, 37343.	1.6	9
1937	Antimanic Treatment With Tamoxifen Affects Brain Chemistry: A Double-Blind, Placebo-Controlled Proton Magnetic Resonance Spectroscopy Study. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 125-131.	1.1	10
1938	Early detection of human glioma sphere xenografts in mouse brain using diffusion MRI at 14.1%T. <i>NMR in Biomedicine</i> , 2016, 29, 1577-1589.	1.6	9
1940	Cortical network dysfunction caused by a subtle defect of myelination. <i>Glia</i> , 2016, 64, 2025-2040.	2.5	62
1941	Reduction of variance in measurements of average metabolite concentration in anatomically-defined brain regions. <i>Journal of Magnetic Resonance</i> , 2016, 272, 73-81.	1.2	8
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1943	Quantitative MRI in hypomyelinating disorders. <i>Neurology</i> , 2016, 87, 752-758.	1.5	16
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1948	Impaired Gut-Liver-Brain Axis in Patients with Cirrhosis. <i>Scientific Reports</i> , 2016, 6, 26800.	1.6	163
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1952	Characterization of the response of taurine protons to PRESS at 9.4ÅT for Resolving choline and Determining taurine $T_2$ . <i>NMR in Biomedicine</i> , 2016, 29, 1427-1435.	1.6	2
1954	Quantitative <i>in vivo</i> neurochemical profiling in humans: where are we now?. <i>International Journal of Epidemiology</i> , 2016, 45, 1339-1350.	0.9	14
1955	Central nervous system uptake of intranasal glutathione in Parkinson's disease. <i>Npj Parkinson's Disease</i> , 2016, 2, 16002.	2.5	43
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1957	Association of Anterior Cingulate Glutathione with Sleep Apnea in Older Adults At-Risk for Dementia. <i>Sleep</i> , 2016, 39, 899-906.	0.6	24
1958	Anterior Cingulate Glutamate Is Reduced by Acamprosate Treatment in Patients With Alcohol Dependence. <i>Journal of Clinical Psychopharmacology</i> , 2016, 36, 669-674.	0.7	24
1959	A fully automatic reference deconvolution strategy to increase the accuracy of in vivo lipid signal quantification. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 1391-1401.	1.9	0
1961	Dorsal Anterior Cingulate Lactate and Glutathione Levels in Euthymic Bipolar I Disorder: $^1\text{H}$ -MRS Study. <i>International Journal of Neuropsychopharmacology</i> , 2016, 19, pyw032.	1.0	52
1962	Reduced glutamate in white matter of male neonates exposed to alcohol in utero: a $^1\text{H}$ -magnetic resonance spectroscopy study. <i>Metabolic Brain Disease</i> , 2016, 31, 1105-1112.	1.4	11
1963	The 100 most-cited articles in neuroimaging: A bibliometric analysis. <i>NeuroImage</i> , 2016, 139, 149-156.	2.1	70
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1965	In vivo imaging of brain glutamate defects in a knock-in mouse model of Huntington's disease. <i>NeuroImage</i> , 2016, 139, 53-64.	2.1	68
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1967	Brain metabolites in ISIAH and Wistar rats. <i>Russian Journal of Genetics: Applied Research</i> , 2016, 6, 424-429.	0.4	0
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1972	Dissociable brain biomarkers of fluid intelligence. <i>NeuroImage</i> , 2016, 137, 201-211.	2.1	42
1973	Neurochemical correlates of internet game play in adolescents with attention deficit hyperactivity disorder: A proton magnetic resonance spectroscopy (MRS) study. <i>Psychiatry Research - Neuroimaging</i> , 2016, 254, 10-17.	0.9	19
1974	In vivo brain rosette spectroscopic imaging (RSI) with LASER excitation, constant gradient strength readout, and automated LCModel quantification for all voxels. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 380-390.	1.9	18
1975	Simultaneous quantification of glutamate and glutamine by J-modulated spectroscopy at 3 Tesla. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 725-732.	1.9	39
1976	Test-retest reproducibility of neurochemical profiles with short-echo, single-voxel MR spectroscopy at 3T and 7T. <i>Magnetic Resonance in Medicine</i> , 2016, 76, 1083-1091.	1.9	130
1977	Sensitivity and specificity of human brain glutathione concentrations measured using short-TE <sup>1</sup> H MRS at 7 T. <i>NMR in Biomedicine</i> , 2016, 29, 600-606.	1.6	33
1978	<sup>1</sup> H MRS in the human spinal cord at 7T using a dielectric waveguide transmitter, RF shimming and a high density receive array. <i>NMR in Biomedicine</i> , 2016, 29, 1231-1239.	1.6	14
1979	Mid-gestation brain Doppler and head biometry in fetuses with congenital heart disease predict abnormal brain development at birth. <i>Ultrasound in Obstetrics and Gynecology</i> , 2016, 47, 65-73.	0.9	68
1980	Prefrontal inositol levels and implicit decision-making in healthy individuals and depressed patients. <i>European Neuropsychopharmacology</i> , 2016, 26, 1255-1263.	0.3	13
1982	Biochemistry of the cingulate cortex in autism: An MR spectroscopy study. <i>Autism Research</i> , 2016, 9, 643-657.	2.1	19
1983	Alpha-mannosidosis: characterization of CNS pathology and correlation between CNS pathology and cognitive function. <i>Clinical Genetics</i> , 2016, 89, 489-494.	1.0	11
1984	Brain metabolism in minimal hepatic encephalopathy assessed by 3.0-Tesla magnetic resonance spectroscopy. <i>Hepatology Research</i> , 2016, 46, 269-276.	1.8	14
1985	Effects of paternal and peripubertal stress on aggression, anxiety, and metabolic alterations in the lateral septum. <i>European Neuropsychopharmacology</i> , 2016, 26, 357-367.	0.3	33
1986	Lorentzian sparsity based spectroscopic reconstruction for fast high-dimensional magnetic resonance spectroscopy. <i>Physics in Medicine and Biology</i> , 2016, 61, 215-226.	1.6	2
1987	Intramuscular adipose tissue determined by T1-weighted MRI at 3 T primarily reflects extramyocellular lipids. <i>Magnetic Resonance Imaging</i> , 2016, 34, 397-403.	1.0	120
1988	Conceptual convergence: increased inflammation is associated with increased basal ganglia glutamate in patients with major depression. <i>Molecular Psychiatry</i> , 2016, 21, 1351-1357.	4.1	201
1989	GABA concentration in superior temporal sulcus predicts gamma power and perception in the sound-induced flash illusion. <i>NeuroImage</i> , 2016, 125, 724-730.	2.1	78

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1991	GABA and Glutamate in Children with Primary Complex Motor Stereotypies: An <sup>1</sup> H-MRS Study at 7T. <i>American Journal of Neuroradiology</i> , 2016, 37, 552-557.	1.2	43
1992	Unmasking Latent Inhibitory Connections in Human Cortex to Reveal Dormant Cortical Memories. <i>Neuron</i> , 2016, 90, 191-203.	3.8	112
1993	Multimodal MRI can identify perfusion and metabolic changes in the invasive margin of glioblastomas. <i>Journal of Magnetic Resonance Imaging</i> , 2016, 43, 487-494.	1.9	41
1994	Brain Lactate Concentration Falls in Response to Hypoglycemia in Patients With Type 1 Diabetes and Impaired Awareness of Hypoglycemia. <i>Diabetes</i> , 2016, 65, 1601-1605.	0.3	38
1995	In vivo <sup>1</sup> H <sup>1</sup> H-MRS of glycine in brain tumors at 3T. <i>Magnetic Resonance in Medicine</i> , 2016, 75, 52-62.	1.9	16
1996	3D spatially encoded and accelerated TE <sub>averaged</sub> echo planar spectroscopic imaging in healthy human brain. <i>NMR in Biomedicine</i> , 2016, 29, 329-339.	1.6	13
1997	Severe, multimodal stress exposure induces PTSD-like characteristics in a mouse model of single prolonged stress. <i>Behavioural Brain Research</i> , 2016, 303, 228-237.	1.2	78
1998	Evaluating metabolites in patients with major depressive disorder who received mindfulness-based cognitive therapy and healthy controls using short-echo MRSI at 7 Tesla. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2016, 29, 523-533.	1.1	26
1999	Investigation of NAA and NAAG dynamics underlying visual stimulation using MEGA-PRESS in a functional MRS experiment. <i>Magnetic Resonance Imaging</i> , 2016, 34, 239-245.	1.0	28
2000	Perinatal choline deficiency delays brain development and alters metabolite concentrations in the young pig. <i>Nutritional Neuroscience</i> , 2016, 19, 425-433.	1.5	47
2001	Striatal Magnetic Resonance Spectroscopy Abnormalities in Young Adult Sapap3 Knockout Mice. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 39-48.	1.1	14
2002	Glial and axonal changes in systemic lupus erythematosus measured with diffusion of intracellular metabolites. <i>Brain</i> , 2016, 139, 1447-1457.	3.7	54
2003	Imaging increased glutamate in children with Sturge-Weber syndrome: Association with epilepsy severity. <i>Epilepsy Research</i> , 2016, 122, 66-72.	0.8	14
2004	Acute Modulation of Cortical Glutamate and GABA Content by Physical Activity. <i>Journal of Neuroscience</i> , 2016, 36, 2449-2457.	1.7	123
2005	Mechanisms of Action of Liraglutide in Patients With Type 2 Diabetes Treated With High-Dose Insulin. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2016, 101, 1798-1806.	1.8	40
2006	Lower Posterior Cingulate Cortex Glutathione Levels in Obsessive-Compulsive Disorder. <i>Biological Psychiatry: Cognitive Neuroscience and Neuroimaging</i> , 2016, 1, 116-124.	1.1	20
2007	Frontal Glutamate and <sup>13</sup> C-Aminobutyric Acid Levels and Their Associations With Mismatch Negativity and Digit Sequencing Task Performance in Schizophrenia. <i>JAMA Psychiatry</i> , 2016, 73, 166.	6.0	78

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2009	Differentiation between treatment-related changes and progressive disease in patients with high grade brain tumors using support vector machine classification based on DCE MRI. <i>Journal of Neuro-Oncology</i> , 2016, 127, 515-524.	1.4	30
2010	InÂvivo HMRS and lipidomic profiling reveals comprehensive changes of hippocampal metabolism during aging in mice. <i>Biochemical and Biophysical Research Communications</i> , 2016, 470, 9-14.	1.0	14
2011	Prevalence of Creatine Deficiency Syndromes in Children With Nonsyndromic Autism. <i>Pediatrics</i> , 2016, 137, .	1.0	13
2012	Can 1H MR Spectroscopy be Used to Assess the Success of Uterine Artery Embolisation?. <i>CardioVascular and Interventional Radiology</i> , 2016, 39, 376-384.	0.9	3
2013	Clinical Imaging of Tumor Metabolism with 1 H Magnetic Resonance Spectroscopy. <i>Magnetic Resonance Imaging Clinics of North America</i> , 2016, 24, 57-86.	0.6	36
2014	Proton MR Spectroscopy for Diagnosis and Evaluation of Treatment Efficacy in Parkinson Disease. <i>Radiology</i> , 2016, 278, 505-513.	3.6	35
2015	Contribution of Histopathologic Tissue Composition to Quantitative MR Spectroscopy and Diffusion-weighted Imaging of the Prostate. <i>Radiology</i> , 2016, 278, 801-811.	3.6	29
2016	Intramyocellular lipid content in subjects with impaired fasting glucose after telmisartan treatment, a randomised cross-over trial. <i>Magnetic Resonance Imaging</i> , 2016, 34, 353-358.	1.0	0
2017	Treatment Response Assessment in IDH-Mutant Glioma Patients by Noninvasive 3D Functional Spectroscopic Mapping of 2-Hydroxyglutarate. <i>Clinical Cancer Research</i> , 2016, 22, 1632-1641.	3.2	127
2018	Increased Cortical Gamma-Aminobutyric Acid Precedes Incomplete Extinction of Conditioned Fear and Increased Hippocampal Excitatory Tone in a Mouse Model of Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2016, 33, 1614-1624.	1.7	27
2019	Resistance training improves skeletal muscle insulin sensitivity in elderly offspring of overweight and obese mothers. <i>Diabetologia</i> , 2016, 59, 77-86.	2.9	30
2020	Volume, metabolites and neuroinflammation of the hippocampus in bipolar disorder â€“ A combined magnetic resonance imaging and positron emission tomography study. <i>Brain, Behavior, and Immunity</i> , 2016, 56, 21-33.	2.0	66
2021	Metabolic mapping reveals sex-dependent involvement of default mode and salience network in alexithymia. <i>Social Cognitive and Affective Neuroscience</i> , 2016, 11, 289-298.	1.5	9
2022	NMF in MR Spectroscopy. <i>Signals and Communication Technology</i> , 2016, , 161-177.	0.4	1
2023	Functional Connectivity Is Associated With Altered Brain Chemistry in Women With Endometriosis-Associated Chronic Pelvic Pain. <i>Journal of Pain</i> , 2016, 17, 1-13.	0.7	135
2024	Impulsivity and Aggression in Female BPD and ADHD Patients: Association with ACC Glutamate and GABA Concentrations. <i>Neuropsychopharmacology</i> , 2016, 41, 410-418.	2.8	107
2025	Neurotransmitter changes during interference task in anterior cingulate cortex: evidence from fMRI-guided functional MRS at 3AT. <i>Brain Structure and Function</i> , 2016, 221, 2541-2551.	1.2	43

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2027	Effects of fish oil supplementation on prefrontal metabolite concentrations in adolescents with major depressive disorder: A preliminary 1H MRS study. <i>Nutritional Neuroscience</i> , 2016, 19, 145-155.	1.5	11
2028	Combined Cerebellar Proton MR Spectroscopy and DWI Study of Patients with Friedreich's Ataxia. <i>Cerebellum</i> , 2017, 16, 82-88.	1.4	12
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2030	Mechanisms of SNR and line shape improvement by $B_0$ correction in overdiscrete MRSI reconstruction. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 44-56.	1.9	19
2031	Flexible proton 3D MR spectroscopic imaging of the prostate with low-power adiabatic pulses for volume selection and spiral readout. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 928-935.	1.9	8
2032	In vivo detection of 2-hydroxyglutarate in brain tumors by optimized point-resolved spectroscopy (PRESS) at 7T. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 936-944.	1.9	40
2033	High-resolution $^1\text{H}$ -MRSI of the brain using short-TE SPICE. <i>Magnetic Resonance in Medicine</i> , 2017, 77, 467-479.	1.9	37
2034	Nutrient intake and cerebral metabolism in healthy middle-aged adults: Implications for cognitive aging. <i>Nutritional Neuroscience</i> , 2017, 20, 489-496.	1.5	12
2035	Feasibility and Success Rate of a Fetal MRI and MR Spectroscopy Research Protocol Performed at Term Using a 3.0-Tesla Scanner. <i>Fetal Diagnosis and Therapy</i> , 2017, 41, 127-135.	0.6	12
2036	1H-MRS technique and spectroscopic imaging LCMoel based adolescent obese metabolic syndrome research. <i>Multimedia Tools and Applications</i> , 2017, 76, 19491-19505.	2.6	3
2037	Impact of Single or Repeated Dose Intranasal Zinc-free Insulin in Young and Aged F344 Rats on Cognition, Signaling, and Brain Metabolism. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2017, 72, 189-197.	1.7	29
2038	No Effect of Anodal Transcranial Direct Current Stimulation on Gamma-Aminobutyric Acid Levels in Patients with Recurrent Mild Traumatic Brain Injury. <i>Journal of Neurotrauma</i> , 2017, 34, 281-290.	1.7	32
2039	Quality management in in vivo proton MRS. <i>Analytical Biochemistry</i> , 2017, 529, 98-116.	1.1	24
2040	Fronto-striatal glutamate in children with Tourette's disorder and attention-deficit/hyperactivity disorder. <i>NeuroImage: Clinical</i> , 2017, 13, 16-23.	1.4	35
2041	Changes in cerebral metabolism during ketogenic diet in patients with primary brain tumors: 1H-MRS study. <i>Journal of Neuro-Oncology</i> , 2017, 132, 267-275.	1.4	50
2042	Overlearning hyperstabilizes a skill by rapidly making neurochemical processing inhibitory-dominant. <i>Nature Neuroscience</i> , 2017, 20, 470-475.	7.1	146
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2045	Abnormalities in metabolite concentrations in touretteâ€™s disorder and obsessive-compulsive disorderâ€™: A proton magnetic resonance spectroscopy study. <i>Psychoneuroendocrinology</i> , 2017, 77, 211-217.	1.3	27
2046	Towards a neurochemical profile of the amygdala using shortâ€™E <sup>1</sup> H magnetic resonance spectroscopy at 3ÅT. <i>NMR in Biomedicine</i> , 2017, 30, e3685.	1.6	8
2047	Glutamate imaging (GluCEST) reveals lower brain GluCEST contrast in patients on the psychosis spectrum. <i>Molecular Psychiatry</i> , 2017, 22, 1298-1305.	4.1	74
2048	Effect of repetition time on metabolite quantification in the human brain in <sup>1</sup> H MR spectroscopy at 3 tesla. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 45, 710-721.	1.9	8
2049	Withinâ€™and betweenâ€™session reproducibility of GABA measurements with MR spectroscopy. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 421-430.	1.9	33
2050	Brain neurochemical and hemodynamic findings in the NY1DD mouse model of mild sickle cell disease. <i>NMR in Biomedicine</i> , 2017, 30, e3692.	1.6	10
2051	Stressâ€™sensitive arterial hypertension, haemodynamic changes and brain metabolites in hypertensive ISIAH rats: MRI investigation. <i>Experimental Physiology</i> , 2017, 102, 523-532.	0.9	16
2052	Diagnostic performance between contrast enhancement, proton MR spectroscopy, and amide proton transfer imaging in patients with brain tumors. <i>Journal of Magnetic Resonance Imaging</i> , 2017, 46, 732-739.	1.9	28
2053	MR Spectroscopy Findings in Retired Professional Rugby League Players. <i>International Journal of Sports Medicine</i> , 2017, 38, 241-252.	0.8	35
2054	Glutamatergic metabolites are associated with visual plasticity in humans. <i>Neuroscience Letters</i> , 2017, 644, 30-36.	1.0	19
2055	Hippocampus Glutamate and N-Acetyl Aspartate Markers of Excitotoxic Neuronal Compromise in Posttraumatic Stress Disorder. <i>Neuropsychopharmacology</i> , 2017, 42, 1698-1705.	2.8	62
2056	Classification of High-Grade Glioma into Tumor and Nontumor Components Using Support Vector Machine. <i>American Journal of Neuroradiology</i> , 2017, 38, 908-914.	1.2	35
2057	<sup>1</sup> ARALAR/ <sup>1</sup> AGC/ <sup>1</sup> deficiency, a neurodevelopmental disorder with severe impairment of neuronal mitochondrial respiration, does not produce a primary increase in brain lactate. <i>Journal of Neurochemistry</i> , 2017, 142, 132-139.	2.1	20
2058	Processing tracking in jMRUI software for magnetic resonance spectra quantitation reproducibility assurance. <i>BMC Bioinformatics</i> , 2017, 18, 56.	1.2	6
2059	Focal Brain Injury Associated with a Model of Severe Hypoxic-Ischemic Encephalopathy in Nonhuman Primates. <i>Developmental Neuroscience</i> , 2017, 39, 107-123.	1.0	18
2060	Accuracy of <sup>1</sup> H magnetic resonance spectroscopy for quantification of 2-hydroxyglutarate using linear combination and J-difference editing at 9.4 T. <i>Zeitschrift Fur Medizinische Physik</i> , 2017, 27, 300-309.	0.6	2
2061	Region-specific aging of the human brain as evidenced by neurochemical profiles measured noninvasively in the posterior cingulate cortex and the occipital lobe using <sup>1</sup> H magnetic resonance spectroscopy at 7 T. <i>Neuroscience</i> , 2017, 354, 168-177.	1.1	84



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2063	Glutamatergic and neural dysfunction in postpartum depression using magnetic resonance spectroscopy. <i>Psychiatry Research - Neuroimaging</i> , 2017, 265, 18-25.	0.9	57
2064	Combined fMRI-MRS acquires simultaneous glutamate and BOLD-fMRI signals in the human brain. <i>NeuroImage</i> , 2017, 155, 113-119.	2.1	106
2065	Neuroprotective Treatments after Perinatal Hypoxic-Ischemic Brain Injury Evaluated with Magnetic Resonance Spectroscopy. <i>Developmental Neuroscience</i> , 2017, 39, 36-48.	1.0	5
2066	Translocator positron-emission tomography and magnetic resonance spectroscopic imaging of brain glial cell activation in multiple sclerosis. <i>Multiple Sclerosis Journal</i> , 2017, 23, 1469-1478.	1.4	23
2067	Defining a multimodal signature of remote sports concussions. <i>European Journal of Neuroscience</i> , 2017, 46, 1956-1967.	1.2	18
2068	Progressive Pathological Changes in Neurochemical Profile of the Hippocampus and Early Changes in the Olfactory Bulbs of Tau Transgenic Mice (rTg4510). <i>Neurochemical Research</i> , 2017, 42, 1649-1660.	1.6	12
2069	Covariance J-resolved spectroscopy: Theory and application in vivo. <i>NMR in Biomedicine</i> , 2017, 30, e3732.	1.6	4
2070	Ultra-High Field Proton MR Spectroscopy in Early-Stage Amyotrophic Lateral Sclerosis. <i>Neurochemical Research</i> , 2017, 42, 1833-1844.	1.6	44
2071	Human Brown Adipose Tissue Temperature and Fat Fraction Are Related to Its Metabolic Activity. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1200-1207.	1.8	51
2072	Exercise Training Reduces Intrathoracic Fat Regardless of Defective Glucose Tolerance. <i>Medicine and Science in Sports and Exercise</i> , 2017, 49, 1313-1322.	0.2	25
2073	High-Quality 3-Dimensional 1H Magnetic Resonance Spectroscopic Imaging of the Prostate Without Endorectal Receive Coil Using A Semi-LASER Sequence. <i>Investigative Radiology</i> , 2017, 52, 640-646.	3.5	11
2074	GABA spectra and remote distractor effect in progressive supranuclear palsy: A pilot study. <i>Revue Neurologique</i> , 2017, 173, 225-229.	0.6	2
2075	Increased Glutamate in Somatosensory Cortex in Functional Dyspepsia. <i>Scientific Reports</i> , 2017, 7, 3926.	1.6	11
2076	<sup>1</sup> H magnetic resonance spectroscopy evidence for occipital involvement in treatment-naive paediatric obsessive-compulsive disorder. <i>Acta Neuropsychiatrica</i> , 2017, 29, 179-190.	1.0	8
2077	Glutamate in dorsolateral prefrontal cortex and auditory verbal hallucinations in patients with schizophrenia: A 1 H MRS study. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2017, 78, 132-139.	2.5	31
2078	Measurement of glycine in healthy and tumorous brain by triple-refocusing MRS at 3T <i>in vivo</i> . <i>NMR in Biomedicine</i> , 2017, 30, e3747.	1.6	9
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2082	No Beneficial Effects of Resveratrol on the Metabolic Syndrome: A Randomized Placebo-Controlled Clinical Trial. <i>Journal of Clinical Endocrinology and Metabolism</i> , 2017, 102, 1642-1651.	1.8	94
2083	Functional dynamics of hippocampal glutamate during associative learning assessed with in vivo 1 H functional magnetic resonance spectroscopy. <i>NeuroImage</i> , 2017, 153, 189-197.	2.1	45
2085	Corticolimbic hyper-response to emotion and glutamatergic function in people with high schizotypy: a multimodal fMRI-MRS study. <i>Translational Psychiatry</i> , 2017, 7, e1083-e1083.	2.4	25
2086	Maturational decrease of glutamate in the human cerebral cortex from childhood to young adulthood: a 1H-MR spectroscopy study. <i>Pediatric Research</i> , 2017, 82, 749-752.	1.1	18
2087	Diagnosis and body mass index effects on hippocampal volumes and neurochemistry in bipolar disorder. <i>Translational Psychiatry</i> , 2017, 7, e1071-e1071.	2.4	13
2088	Acute stress effects on GABA and glutamate levels in the prefrontal cortex: A 7T 1H magnetic resonance spectroscopy study. <i>NeuroImage: Clinical</i> , 2017, 14, 195-200.	1.4	33
2089	Reliability of glutamate and GABA quantification using proton magnetic resonance spectroscopy. <i>Neuroscience Letters</i> , 2017, 643, 121-124.	1.0	27
2090	Comparing GABA-dependent physiological measures of inhibition with proton magnetic resonance spectroscopy measurement of GABA using ultra-high-field MRI. <i>NeuroImage</i> , 2017, 152, 360-370.	2.1	100
2091	Remote motor system metabolic profile and surgery outcome in cervical spondylotic myelopathy. <i>Journal of Neurosurgery: Spine</i> , 2017, 26, 668-678.	0.9	16
2092	Brain MRS glutamine as a biomarker to guide therapy of hyperammonemic coma. <i>Molecular Genetics and Metabolism</i> , 2017, 121, 9-15.	0.5	8
2093	tDCS-Induced Modulation of GABA Levels and Resting-State Functional Connectivity in Older Adults. <i>Journal of Neuroscience</i> , 2017, 37, 4065-4073.	1.7	109
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2095	Fast and efficient free induction decay MR spectroscopic imaging of the human brain at 9.4 Tesla. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 1281-1295.	1.9	14
2096	Pathological glutamatergic neurotransmission in Gilles de la Tourette syndrome. <i>Brain</i> , 2017, 140, 218-234.	3.7	68
2097	Detection of metabolite changes in response to a varying visual stimulation paradigm using short-TE <sup>1</sup>H MRS at 7ÅT. <i>NMR in Biomedicine</i> , 2017, 30, e3672.	1.6	36
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2100	Perisylvian GABA levels in schizophrenia and bipolar disorder. <i>Neuroscience Letters</i> , 2017, 637, 70-74.	1.0	23
2101	Parameterization of spectral baseline directly from short echo time full spectra in <sup>1</sup> H-MRS. <i>Magnetic Resonance in Medicine</i> , 2017, 78, 836-847.	1.9	11
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2103	Magnetic resonance spectroscopy and brain volumetry in mild cognitive impairment. A prospective study. <i>Magnetic Resonance Imaging</i> , 2017, 38, 27-32.	1.0	11
2104	Application of reiteration of Hankel singular value decomposition in quality control. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	0
2105	Noninvasive detection of focal brain hyperthermia related to continuous epileptic activities using proton MR spectroscopy. <i>Epilepsy Research</i> , 2017, 138, 1-4.	0.8	12
2106	Investigation of the contribution of total creatine to the CEST <sup>1</sup> H spectrum of brain using a knockout mouse model. <i>NMR in Biomedicine</i> , 2017, 30, e3834.	1.6	64
2107	GABA alterations in pediatric sport concussion. <i>Neurology</i> , 2017, 89, 2151-2156.	1.5	20
2108	<sup>1</sup> H-MRS processing parameters affect metabolite quantification: The urgent need for uniform and transparent standardization. <i>NMR in Biomedicine</i> , 2017, 30, e3804.	1.6	31
2109	Neurochemical dynamics of acute orofacial pain in the human trigeminal brainstem nuclear complex. <i>NeuroImage</i> , 2017, 162, 162-172.	2.1	12
2110	Quantification of Metabolites in Magnetic Resonance Spectroscopic Imaging Using Machine Learning. <i>Lecture Notes in Computer Science</i> , 2017, , 462-470.	1.0	14
2111	Decreased <sup>13</sup> C-aminobutyric acid levels in the brainstem in patients with possible sleep bruxism: A pilot study. <i>Journal of Oral Rehabilitation</i> , 2017, 44, 934-940.	1.3	12
2112	A Subspace Approach to Spectral Quantification for MR Spectroscopic Imaging. <i>IEEE Transactions on Biomedical Engineering</i> , 2017, 64, 2486-2489.	2.5	23
2113	Acute change in anterior cingulate cortex GABA, but not glutamine/glutamate, mediates antidepressant response to citalopram. <i>Psychiatry Research - Neuroimaging</i> , 2017, 269, 9-16.	0.9	40
2114	Effects of aerobic exercise on brain metabolism and grey matter volume in older adults: results of the randomised controlled SMART trial. <i>Translational Psychiatry</i> , 2017, 7, e1172-e1172.	2.4	62
2115	Altered metabolomic "genomic signature: A potential noninvasive biomarker of epilepsy. <i>Epilepsia</i> , 2017, 58, 1626-1636.	2.6	24
2116	Localized MRS reliability of <sup>1</sup> H in vivo glutamate at 3T in shortened scan times: a feasibility study. <i>NMR in Biomedicine</i> , 2017, 30, e3771.	1.6	13

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2119	Prior-knowledge Fitting of Accelerated Five-dimensional Echo Planar J-resolved Spectroscopic Imaging: Effect of Nonlinear Reconstruction on Quantitation. <i>Scientific Reports</i> , 2017, 7, 6262.	1.6	3
2120	Prefrontal Glx and GABA concentrations and impulsivity in cigarette smokers and smoking polysubstance users. <i>Drug and Alcohol Dependence</i> , 2017, 179, 117-123.	1.6	20
2121	Glutamatergic metabolites among adolescents at risk for psychosis. <i>Psychiatry Research</i> , 2017, 257, 179-185.	1.7	19
2122	Decreased Glutamate Levels in Patients with Amnesic Mild Cognitive Impairment: An sLASER Proton MR Spectroscopy and PiBâ€PET Study. <i>Journal of Neuroimaging</i> , 2017, 27, 630-636.	1.0	29
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2124	SyMRI of the Brain. <i>Investigative Radiology</i> , 2017, 52, 647-657.	3.5	154
2125	Novel insights into the neurometabolic homeostasis of cocaine addiction: aberrant glutamatergic mechanisms in the nucleus accumbens. <i>European Neuropsychopharmacology</i> , 2017, 27, S715-S716.	0.3	0
2126	White matter integrity correlates with choline level in dorsal anterior cingulate cortex of obsessive compulsive disorder patients: A combined DTI-MRS study. , 2017, 2017, 3521-3524.		5
2127	The aging effect on prostate metabolite concentrations measured by 1H MR spectroscopy. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 65-74.	1.1	1
2128	Fitting interrelated datasets: metabolite diffusion and general lineshapes. <i>Magnetic Resonance Materials in Physics, Biology, and Medicine</i> , 2017, 30, 429-448.	1.1	14
2129	Loss of SLC25A46 causes neurodegeneration by affecting mitochondrial dynamics and energy production in mice. <i>Human Molecular Genetics</i> , 2017, 26, 3776-3791.	1.4	39
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2275	Brain amyloid burden and cerebrovascular disease are synergistically associated with neurometabolism in cognitively unimpaired older adults. <i>Neurobiology of Aging</i> , 2018, 63, 152-161.	1.5	16
2276	Neuroanatomical changes in people with high schizotypy: relationship to glutamate levels. <i>Psychological Medicine</i> , 2018, 48, 1880-1889.	2.7	20
2277	Glutamate is down-regulated and tinnitus loudness-levels decreased following rTMS over auditory cortex of the left hemisphere: A prospective randomized single-blinded sham-controlled cross-over study. <i>Hearing Research</i> , 2018, 358, 59-73.	0.9	20
2278	Insights into brain microstructure from in vivo DW-MRS. <i>NeuroImage</i> , 2018, 182, 97-116.	2.1	62
2279	Association of exposure to manganese and iron with striatal and thalamic GABA and other neurometabolites <sup>1</sup> H Neuroimaging results from the WELDOX II study. <i>NeuroToxicology</i> , 2018, 64, 60-67.	1.4	23



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2281	In-vitro validation of MR-based fat quantification at 1.5 T. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 067004.	0.6	0
2282	Translating In Vivo Metabolomic Analysis of Succinate Dehydrogenase-Deficient Tumors Into Clinical Utility. <i>JCO Precision Oncology</i> , 2018, 2, 1-12.	1.5	22
2284	A Longitudinal, Observational Study of the Effect of Dimethyl Fumarate on Hippocampal Metabolites in RRMS using 1H-MR Spectroscopy. <i>Journal of Biomedical Sciences</i> , 2018, 7, .	0.3	2
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2289	Pilot trial of inosine to elevate urate levels in amyotrophic lateral sclerosis. <i>Annals of Clinical and Translational Neurology</i> , 2018, 5, 1522-1533.	1.7	31
2290	Characterization of Brain Metabolism by Nuclear Magnetic Resonance. <i>ChemPhysChem</i> , 2018, 20, 216-230.	1.0	13
2291	Repetitive neonatal pain and reduced maternal care alter brain neurochemistry. <i>Developmental Psychobiology</i> , 2018, 60, 963-974.	0.9	27
2292	Integrative metabolic and transcriptomic profiling of prostate cancer tissue containing reactive stroma. <i>Scientific Reports</i> , 2018, 8, 14269.	1.6	52
2293	Two-Dimensional Proton Magnetic Resonance Spectroscopy versus J-Editing for GABA Quantification in Human Brain: Insights from a GABA-Aminotransferase Inhibitor Study. <i>Scientific Reports</i> , 2018, 8, 13200.	1.6	4
2294	Increased Absolute Glutamate Concentrations and Glutamate-to-Creatine Ratios in Patients With Methamphetamine Use Disorders. <i>Frontiers in Psychiatry</i> , 2018, 9, 368.	1.3	17
2295	Neurotransmitter alterations in the anterior cingulate cortex in Crohn's disease patients with abdominal pain: A preliminary MR spectroscopy study. <i>NeuroImage: Clinical</i> , 2018, 20, 793-799.	1.4	25
2296	Opposite Dynamics of GABA and Glutamate Levels in the Occipital Cortex during Visual Processing. <i>Journal of Neuroscience</i> , 2018, 38, 9967-9976.	1.7	59
2297	Neuro-Metabolite Changes in a Single Season of University Ice Hockey Using Magnetic Resonance Spectroscopy. <i>Frontiers in Neurology</i> , 2018, 9, 616.	1.1	19
2298	Implications of the magnetic susceptibility difference between grey and white matter for single-voxel proton spectroscopy at 7T. <i>Journal of Magnetic Resonance</i> , 2018, 297, 51-60.	1.2	2

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2300	Glutamate, Glutamine and GABA Levels in Rat Brain Measured Using MRS, HPLC and NMR Methods in Study of Two Models of Autism. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 418.	1.4	48
2301	Clinical applications of in vivo magnetic resonance spectroscopy in oncology. <i>Physics in Medicine and Biology</i> , 2018, 63, 21TR02.	1.6	6
2302	Beyond Dopamine: GABA, Glutamate, and the Axial Symptoms of Parkinson Disease. <i>Frontiers in Neurology</i> , 2018, 9, 806.	1.1	71
2303	Mitochondrial pathophysiology beyond the retinal ganglion cell: occipital GABA is decreased in autosomal dominant optic neuropathy. <i>Graefes Archive for Clinical and Experimental Ophthalmology</i> , 2018, 256, 2341-2348.	1.0	3
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2305	Overlapped discretized SENSE reconstruction and $B_0$ correction for accelerated non- $^1\text{H}$ lipid-suppressed $^1\text{H}$ FID MRSI of the human brain at 9.4 T. <i>NMR in Biomedicine</i> , 2018, 31, e4014.	1.6	10
2306	Changes in intra- and extramyocellular lipids in morbidly obese patients after non-surgical weight loss—a pilot study using magnetic resonance spectroscopy. <i>Clinical Nutrition ESPEN</i> , 2018, 28, 121-126.	0.5	2
2307	Combined diffusion tensor imaging and magnetic resonance spectroscopy to predict neurological outcome before transjugular intrahepatic portosystemic shunt. <i>Alimentary Pharmacology and Therapeutics</i> , 2018, 48, 863-874.	1.9	8
2308	Decreased GABA levels in the symptomatic hemisphere in patients with transient ischemic attack. <i>Heliyon</i> , 2018, 4, e00790.	1.4	8
2309	Non-invasive quantification of hepatic fat content in healthy dogs by using proton magnetic resonance spectroscopy and dual gradient echo magnetic resonance imaging. <i>Journal of Veterinary Science</i> , 2018, 19, 570.	0.5	2
2310	Comparison of MRI-derived vs. traditional estimations of fatty acid composition from MR spectroscopy signals. <i>NMR in Biomedicine</i> , 2018, 31, e3991.	1.6	14
2311	NMR-Based Prostate Cancer Metabolomics. <i>Methods in Molecular Biology</i> , 2018, 1786, 237-257.	0.4	9
2312	Quantitation Error in $^1\text{H}$ MRS Caused by $B_1$ Inhomogeneity and Chemical Shift Displacement. <i>Magnetic Resonance in Medical Sciences</i> , 2018, 17, 244-250.	1.1	1
2313	Hippocampal metabolites in asthma and their implications for cognitive function. <i>NeuroImage: Clinical</i> , 2018, 19, 213-221.	1.4	37
2314	Cerebellar-Stimulation Evoked Prefrontal Electrical Synchrony Is Modulated by GABA. <i>Cerebellum</i> , 2018, 17, 550-563.	1.4	25
2315	Anterior thalamic radiation structural and metabolic changes in obsessive-compulsive disorder: A combined DTI-MRS study. <i>Psychiatry Research - Neuroimaging</i> , 2018, 277, 39-44.	0.9	12
2317	A Mild Traumatic Brain Injury in Mice Produces Lasting Deficits in Brain Metabolism. <i>Journal of Neurotrauma</i> , 2018, 35, 2435-2447.	1.7	36

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2319	Characterisation of tissue-type metabolic content in secondary progressive multiple sclerosis: a magnetic resonance spectroscopic imaging study. <i>Journal of Neurology</i> , 2018, 265, 1795-1802.	1.8	7
2320	Glutamate and GABA concentrations following mild traumatic brain injury: a pilot study. <i>Journal of Neurophysiology</i> , 2018, 120, 1318-1322.	0.9	28
2321	Glutamate Concentration in the Superior Temporal Sulcus Relates to Neuroticism in Schizophrenia. <i>Frontiers in Psychology</i> , 2018, 9, 578.	1.1	1
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2323	Functional Magnetic Resonance Spectroscopy: The "New" MRS for Cognitive Neuroscience and Psychiatry Research. <i>Frontiers in Psychiatry</i> , 2018, 9, 76.	1.3	85
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2325	Regulation of glucose metabolism in nondiabetic, metabolically obese normal-weight Asians. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2018, 314, E494-E502.	1.8	23
2326	High-resolution echo-planar spectroscopic imaging at ultra-high field. <i>NMR in Biomedicine</i> , 2018, 31, e3950.	1.6	11
2327	Visceral adipose tissue tracks more closely with metabolic dysfunction than intrahepatic triglyceride in lean Asians without diabetes. <i>Journal of Applied Physiology</i> , 2018, 125, 909-915.	1.2	10
2328	Correlations between changes in the hypothalamic-pituitary-adrenal axis and neurochemistry of the anterior cingulate gyrus in postpartum depression. <i>Journal of Affective Disorders</i> , 2018, 239, 274-281.	2.0	12
2329	Nutritional Ketosis Increases NAD <sup>+</sup> /NADH Ratio in Healthy Human Brain: An in Vivo Study by 31P-MRS. <i>Frontiers in Nutrition</i> , 2018, 5, 62.	1.6	62
2330	Altered hippocampal GABA and glutamate levels and uncoupling from functional connectivity in multiple sclerosis. <i>Hippocampus</i> , 2018, 28, 813-823.	0.9	33
2331	Prospective multicentre evaluation and refinement of an analysis tool for magnetic resonance spectroscopy of childhood cerebellar tumours. <i>Pediatric Radiology</i> , 2018, 48, 1630-1641.	1.1	7
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2333	Brain Metabolism Alterations Induced by Pregnancy Swimming Decreases Neurological Impairments Following Neonatal Hypoxia-Ischemia in Very Immature Rats. <i>Frontiers in Neurology</i> , 2018, 9, 480.	1.1	15
2334	Consolidation and reconsolidation share behavioural and neurochemical mechanisms. <i>Nature Human Behaviour</i> , 2018, 2, 507-513.	6.2	50
2335	Investigating the Synthesis and Characterization of a Novel "Green"-H <sub>2</sub> O <sub>2</sub> -Assisted, Water-Soluble Chitosan/Polyvinyl Alcohol Nanofiber for Environmental End Uses. <i>Nanomaterials</i> , 2018, 8, 395.	1.9	59

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2337	Magnetic resonance markers of tissue damage related to connectivity disruption in multiple sclerosis. <i>NeuroImage: Clinical</i> , 2018, 20, 161-168.	1.4	22
2338	A randomized placebo-controlled clinical trial of nicotinamide riboside in obese men: safety, insulin-sensitivity, and lipid-mobilizing effects. <i>American Journal of Clinical Nutrition</i> , 2018, 108, 343-353.	2.2	195
2339	Temporal/compartamental changes in viral RNA and neuronal injury in a primate model of NeuroAIDS. <i>PLoS ONE</i> , 2018, 13, e0196949.	1.1	8
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2341	Salivary kynurenic acid response to psychological stress: inverse relationship to cortical glutamate in schizophrenia. <i>Neuropsychopharmacology</i> , 2018, 43, 1706-1711.	2.8	24
2342	Longitudinal Study of Irradiation-Induced Brain Microstructural Alterations With S-Index, a Diffusion MRI Biomarker, and MR Spectroscopy. <i>International Journal of Radiation Oncology Biology Physics</i> , 2018, 102, 1244-1254.	0.4	14
2343	Abnormal metabolite concentrations and amygdala volume in patients with recent-onset posttraumatic stress disorder. <i>Journal of Affective Disorders</i> , 2018, 241, 539-545.	2.0	12
2344	MultiNet PyGRAPPA: Multiple neural networks for reconstructing variable density GRAPPA (a $^1\text{H}$ FID) Tj ETQqO O O rgBT /Overlock 10 Tf 5	2.1	17
2345	Systematic review of in-vivo neuro magnetic resonance spectroscopy for the assessment of posttraumatic stress disorder. <i>Psychiatry Research - Neuroimaging</i> , 2018, 282, 110-125.	0.9	10
2346	Effects of N-acetylcysteine on brain glutamate levels and resting perfusion in schizophrenia. <i>Psychopharmacology</i> , 2018, 235, 3045-3054.	1.5	20
2348	Miniature pig magnetic resonance spectroscopy model of normal adolescent brain development. <i>Journal of Neuroscience Methods</i> , 2018, 308, 173-182.	1.3	10
2349	Estimating glutamate and Glx from GABA-optimized MEGA-PRESS: Off-resonance but not difference spectra values correspond to PRESS values. <i>Psychiatry Research - Neuroimaging</i> , 2018, 279, 22-30.	0.9	25
2350	Studying neurons and glia non-invasively via anomalous subdiffusion of intracellular metabolites. <i>Brain Structure and Function</i> , 2018, 223, 3841-3854.	1.2	17
2351	Spatially Resolved Bioenergetic and Genetic Reprogramming Through the Brain of Rats Bearing Implanted C6 Gliomas As Detected by Multinuclear High-Resolution Magic Angle Spinning and Genomic Analysis. <i>Journal of Proteome Research</i> , 2018, 17, 2953-2962.	1.8	5
2352	Neurometabolite Levels in Alcohol Use Disorder Patients During Baclofen Treatment and Prediction of Relapse to Heavy Drinking. <i>Frontiers in Psychiatry</i> , 2018, 9, 412.	1.3	9
2353	Lithium-associated anterior cingulate neurometabolic profile in euthymic Bipolar I disorder: A $^1\text{H}$ -MRS study. <i>Journal of Affective Disorders</i> , 2018, 241, 192-199.	2.0	18
2354	MASEs-LASER, a short-TE, matched chemical shift displacement error sequence for single-voxel spectroscopy at ultrahigh field. <i>NMR in Biomedicine</i> , 2018, 31, e3940.	1.6	1

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2356	Effect of lactate administration on brain lactate levels during hypoglycemia in patients with type 1 diabetes. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 1974-1982.	2.4	14
2357	Anterior Cingulate Glutamate and GABA Associations on Functional Connectivity in Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 647-658.	2.3	45
2358	7T Proton Magnetic Resonance Spectroscopy of the Anterior Cingulate Cortex in First-Episode Schizophrenia. <i>Schizophrenia Bulletin</i> , 2019, 45, 180-189.	2.3	94
2359	Dynamic metabolic changes in human visual cortex in regions with positive and negative blood oxygenation level-dependent response. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2019, 39, 2295-2307.	2.4	20
2360	Reversibility of Neuroimaging Markers Influenced by Lifetime Occupational Manganese Exposure. <i>Toxicological Sciences</i> , 2019, 172, 181-190.	1.4	10
2361	How can methylprednisolone work on epileptic spasms with malformation of cortical development?. <i>European Journal of Neuroscience</i> , 2019, 50, 4018-4027.	1.2	2
2362	Profiles of brain oxidative damage, ventricular alterations, and neurochemical metabolites in the striatum of PINK1 knockout rats as functions of age and gender: Relevance to Parkinson disease. <i>Free Radical Biology and Medicine</i> , 2019, 143, 146-152.	1.3	16
2363	Optimizing acquisition and fitting conditions for <sup>1</sup> H MR spectroscopy investigations in global brain pathology. <i>NMR in Biomedicine</i> , 2019, 32, e4161.	1.6	11
2364	Hyperbaric Oxygenation Effects on Human Brain In Vivo: 1H MRS and Resting-State fMRI Study. <i>Applied Magnetic Resonance</i> , 2019, 50, 1191-1203.	0.6	4
2365	Strength of resting state functional connectivity and local GABA concentrations predict oral reading of real and pseudo-words. <i>Scientific Reports</i> , 2019, 9, 11385.	1.6	7
2366	Remission from antipsychotic treatment in first episode psychosis related to longitudinal changes in brain glutamate. <i>NPJ Schizophrenia</i> , 2019, 5, 12.	2.0	28
2367	Biallelic mutation of human <i>SLC6A6</i> encoding the taurine transporter TAUT is linked to early retinal degeneration. <i>FASEB Journal</i> , 2019, 33, 11507-11527.	0.2	36
2368	Comparison of Neurochemical and BOLD Signal Contrast Response Functions in the Human Visual Cortex. <i>Journal of Neuroscience</i> , 2019, 39, 7968-7975.	1.7	37
2369	Dynamic changes in cerebral and peripheral markers of glutamatergic signaling across the human sleep-wake cycle. <i>Sleep</i> , 2019, 42, .	0.6	20
2370	Biomedical Visualisation. <i>Advances in Experimental Medicine and Biology</i> , 2019, , .	0.8	4
2371	Validation of a Psychosocial Chronic Stress Model in the Pig Using a Multidisciplinary Approach at the Gut-Brain and Behavior Levels. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 161.	1.0	16
2372	N-Acetyl-Cysteine Supplementation Improves Functional Connectivity Within the Cingulate Cortex in Early Psychosis: A Pilot Study. <i>International Journal of Neuropsychopharmacology</i> , 2019, 22, 478-487.	1.0	25

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2374	PI3K/mTOR inhibition of IDH1 mutant glioma leads to reduced 2HG production that is associated with increased survival. <i>Scientific Reports</i> , 2019, 9, 10521.	1.6	36
2375	Cerebral Metabolites on the Descending Limb of Acute Alcohol: A Preliminary 1H MRS Study. <i>Alcohol and Alcoholism</i> , 2019, 54, 487-496.	0.9	9
2376	Association between Brain and Plasma Glutamine Levels in Healthy Young Subjects Investigated by MRS and LC/MS. <i>Nutrients</i> , 2019, 11, 1649.	1.7	21
2377	A Visual Analytics Approach for Comparing Cohorts in Single-Voxel Magnetic Resonance Spectroscopy Data. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1138, 115-136.	0.8	2
2378	&lt;p&gt;Smoking results in accumulation of ectopic fat in the liver&lt;/p&gt;. <i>Diabetes, Metabolic Syndrome and Obesity: Targets and Therapy</i> , 2019, Volume 12, 1075-1080.	1.1	8
2379	Magnetic resonance spectroscopy of rat kidney in vivo at 9.4 T. <i>Biomedical Physics and Engineering Express</i> , 2019, 5, 045035.	0.6	1
2380	Assessing therapeutic response non-invasively in a neonatal rat model of acute inflammatory white matter injury using high-field MRI. <i>Brain, Behavior, and Immunity</i> , 2019, 81, 348-360.	2.0	12
2381	Children with orthostatic intolerance exhibit elevated markers of inflammation in the dorsal medulla. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H323-H329.	1.5	8
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2383	An MRI Study of the Metabolic and Structural Abnormalities in Obsessive-Compulsive Disorder. <i>Frontiers in Human Neuroscience</i> , 2019, 13, 186.	1.0	25
2384	A comparison of sLASER and MEGA-sLASER using simultaneous interleaved acquisition for measuring GABA in the human brain at 7T. <i>PLoS ONE</i> , 2019, 14, e0223702.	1.1	21
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2386	Metabolic Changes in Focal Brain Ischemia in Rats Treated With Human Induced Pluripotent Stem Cell-Derived Neural Precursors Confirm the Beneficial Effect of Transplanted Cells. <i>Frontiers in Neurology</i> , 2019, 10, 1074.	1.1	4
2387	Neurochemical sex differences in adult ADHD patients: an MRS study. <i>Biology of Sex Differences</i> , 2019, 10, 50.	1.8	12
2388	High-resolution creatine mapping of mouse brain at 11.7 T using non-steady-state chemical exchange saturation transfer. <i>NMR in Biomedicine</i> , 2019, 32, e4168.	1.6	29
2389	PRESS timings for resolving <sup>13</sup> C <sub>4</sub> -glutamate <sup>1</sup> H signal at 9.4 T: Demonstration in rat with uniformly labelled <sup>13</sup> C-glucose. <i>NMR in Biomedicine</i> , 2019, 32, e4180.	1.6	1
2390	Glutamate in Salience Network Predicts BOLD Response in Default Mode Network During Salience Processing. <i>Frontiers in Behavioral Neuroscience</i> , 2019, 13, 232.	1.0	6



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2392	Feasibility of neurochemically profiling mouse embryonic brain and its development in utero using $^1\text{H}$ MRS at 14.1ÅT. <i>NMR in Biomedicine</i> , 2019, 32, e4163.	1.6	1
2393	Determination of Acrolein-Associated T1 and T2 Relaxation Times and Noninvasive Detection Using Nuclear Magnetic Resonance and Magnetic Resonance Spectroscopy. <i>Applied Magnetic Resonance</i> , 2019, 50, 1291-1303.	0.6	0
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2395	Cingulate glutamate levels associate with pain in chronic pancreatitis patients. <i>NeuroImage: Clinical</i> , 2019, 23, 101925.	1.4	10
2396	Converging evidence points towards a role of insulin signaling in regulating compulsive behavior. <i>Translational Psychiatry</i> , 2019, 9, 225.	2.4	20
2397	Validation of <i>in vivo</i> MRS measures of metabolite concentrations in the human brain. <i>NMR in Biomedicine</i> , 2019, 32, e4058.	1.6	40
2398	MR Spectroscopy of the Cervical Spinal Cord in Chronic Spinal Cord Injury. <i>Radiology</i> , 2019, 291, 131-138.	3.6	13
2399	Impairment of Motor Function Correlates with Neurometabolite and Brain Iron Alterations in Parkinson's Disease. <i>Cells</i> , 2019, 8, 96.	1.8	28
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2402	Multimodal MRI characteristics of the glioblastoma infiltration beyond contrast enhancement. <i>Therapeutic Advances in Neurological Disorders</i> , 2019, 12, 175628641984466.	1.5	23
2403	Changes in metabolites in the brain of patients with fibromyalgia after treatment with an NMDA receptor antagonist. <i>Neuroradiology Journal</i> , 2019, 32, 408-419.	0.6	11
2404	Sensitivity of Volumetric Magnetic Resonance Imaging and Magnetic Resonance Spectroscopy to Progression of Spinocerebellar Ataxia Type 1. <i>Movement Disorders Clinical Practice</i> , 2019, 6, 549-558.	0.8	25
2405	Probing activation-induced neurochemical changes using optogenetics combined with functional magnetic resonance spectroscopy: a feasibility study in the rat primary somatosensory cortex. <i>Journal of Neurochemistry</i> , 2019, 150, 402-419.	2.1	19
2406	Diabetes and the link between neuroplasticity and glutamate in the aging human motor cortex. <i>Clinical Neurophysiology</i> , 2019, 130, 1502-1510.	0.7	23
2407	Considerations of Ultrasound Scanning Approaches in Non-alcoholic Fatty Liver Disease Assessment through Acoustic Structure Quantification. <i>Ultrasound in Medicine and Biology</i> , 2019, 45, 1955-1969.	0.7	17
2408	Revisiting the excitation/inhibition imbalance hypothesis of ASD through a clinical lens. <i>British Journal of Radiology</i> , 2019, 92, 20180944.	1.0	36

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2410	In vivo <sup>1</sup> H MRS detection of cystathionine in human brain tumors. <i>Magnetic Resonance in Medicine</i> , 2019, 82, 1259-1265.	1.9	8
2411	Characterizing Fatigue-Related White Matter Changes in MS: A Proton Magnetic Resonance Spectroscopy Study. <i>Brain Sciences</i> , 2019, 9, 122.	1.1	9
2412	Cerebral degeneration in amyotrophic lateral sclerosis. <i>Neurology: Clinical Practice</i> , 2019, 9, 400-407.	0.8	13
2413	Neuronal loss or dysfunction in patients with early Lyme neuroborreliosis: a proton magnetic resonance spectroscopy study of the brain. <i>Journal of Neurology</i> , 2019, 266, 1937-1943.	1.8	6
2414	Myo-inositol mediates the effects of traffic-related air pollution on generalized anxiety symptoms at age 12 years. <i>Environmental Research</i> , 2019, 175, 71-78.	3.7	32
2415	Effect of linewidth on estimation of metabolic concentration when using water lineshape spectral model fitting for single voxel proton spectroscopy at 7 T. <i>Journal of Magnetic Resonance</i> , 2019, 304, 53-61.	1.2	5
2416	Elevated brain glutamate levels in type 1 diabetes: correlations with glycaemic control and age of disease onset but not with hypoglycaemia awareness status. <i>Diabetologia</i> , 2019, 62, 1065-1073.	2.9	15
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2538	Effect of single dose N-acetylcysteine administration on resting state functional connectivity in schizophrenia. <i>Psychopharmacology</i> , 2020, 237, 443-451.	1.5	9
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2688	Accumulation of Macromolecules in Idiopathic Normal Pressure Hydrocephalus. <i>Neurologia Medico-Chirurgica</i> , 2021, 61, 211-218.	1.0	9
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2692	Dysfunctional energy metabolisms in fibromyalgia compared with healthy subjects. <i>Molecular Pain</i> , 2021, 17, 174480692110128.	1.0	7
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2695	Branched-Chain Amino Acid Supplementation Does Not Preserve Lean Mass or Affect Metabolic Profile in Adults with Overweight or Obesity in a Randomized Controlled Weight Loss Intervention. <i>Journal of Nutrition</i> , 2021, 151, 911-920.	1.3	5
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2698	Reduced Thalamic Volume and Metabolites in Type 1 Diabetes with Polyneuropathy. <i>Experimental and Clinical Endocrinology and Diabetes</i> , 2022, 130, 327-334.	0.6	10
2699	Comparison of different linear combination modeling algorithms for short TE proton spectra. <i>NMR in Biomedicine</i> , 2021, 34, e4482.	1.6	53
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