

Caroline D Rae

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127
papers

4,646
citations

39
h-index

65
g-index

142
ext. papers

5,316
ext. citations

5
avg, IF

5.72
L-index

#	Paper	IF	Citations
127	A guide to the metabolic pathways and function of metabolites observed in human brain 1H magnetic resonance spectra. <i>Neurochemical Research</i> , 2014 , 39, 1-36	4.6	268
126	Brain function in Duchenne muscular dystrophy. <i>Brain</i> , 2002 , 125, 4-13	11.2	218
125	Immunopathogenesis of cerebral malaria. <i>International Journal for Parasitology</i> , 2006 , 36, 569-82	4.3	191
124	Metabolic abnormalities in developmental dyslexia detected by 1H magnetic resonance spectroscopy. <i>Lancet, The</i> , 1998 , 351, 1849-52	4.0	159
123	Oral creatine monohydrate supplementation improves brain performance: a double-blind, placebo-controlled, cross-over trial. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2003 , 270, 2147-50	4.4	136
122	Hippocampal area metabolites relate to severity and cognitive function in obstructive sleep apnea. <i>Sleep Medicine</i> , 2004 , 5, 593-6	4.6	129
121	Inhibition of glutamine transport depletes glutamate and GABA neurotransmitter pools: further evidence for metabolic compartmentation. <i>Journal of Neurochemistry</i> , 2003 , 85, 503-14	6	127
120	Metabolic profiling of genetic disorders: a multitissue (1)H nuclear magnetic resonance spectroscopic and pattern recognition study into dystrophic tissue. <i>Analytical Biochemistry</i> , 2001 , 293, 16-21	3.1	127
119	β-Hydroxybutyrate in the Brain: One Molecule, Multiple Mechanisms. <i>Neurochemical Research</i> , 2017 , 42, 35-49	4.6	125
118	Chronic pain: lost inhibition?. <i>Journal of Neuroscience</i> , 2013 , 33, 7574-82	6.6	118
117	Cerebellar morphology in developmental dyslexia. <i>Neuropsychologia</i> , 2002 , 40, 1285-92	3.2	114
116	Resistance training improves cardiac output, exercise capacity and tolerance to positive airway pressure in Fontan physiology. <i>International Journal of Cardiology</i> , 2013 , 168, 780-8	3.2	109
115	Memory training alters hippocampal neurochemistry in healthy elderly. <i>NeuroReport</i> , 2003 , 14, 1333-7	1.7	100
114	The effects of large neutral amino acid supplements in PKU: an MRS and neuropsychological study. <i>Molecular Genetics and Metabolism</i> , 2007 , 91, 48-54	3.7	88
113	Metabolite profiling of the intraerythrocytic malaria parasite Plasmodium falciparum by (1)H NMR spectroscopy. <i>NMR in Biomedicine</i> , 2009 , 22, 292-302	4.4	84
112	HIV, vascular and aging injuries in the brain of clinically stable HIV-infected adults: a (1)H MRS study. <i>PLoS ONE</i> , 2013 , 8, e61738	3.7	82
111	Glutathione in the human brain: Review of its roles and measurement by magnetic resonance spectroscopy. <i>Analytical Biochemistry</i> , 2017 , 529, 127-143	3.1	81

110	Thalamic activity and biochemical changes in individuals with neuropathic pain after spinal cord injury. <i>Pain</i> , 2014 , 155, 1027-1036	8	80
109	Skeletal muscle abnormalities and exercise capacity in adults with a Fontan circulation. <i>Heart</i> , 2013 , 99, 1530-4	5.1	72
108	Memory training alters hippocampal neurochemistry in healthy elderly. <i>NeuroReport</i> , 2003 , 14, 1333-1337	7	69
107	Combining MR elastography and diffusion tensor imaging for the assessment of anisotropic mechanical properties: a phantom study. <i>Journal of Magnetic Resonance Imaging</i> , 2013 , 37, 217-26	5.6	67
106	Hypo-osmotic swelling-activated release of organic osmolytes in brain slices: implications for brain oedema in vivo. <i>Journal of Neurochemistry</i> , 2001 , 77, 1632-40	6	63
105	Increased permeability of the malaria-infected erythrocyte to organic cations. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2000 , 1463, 88-98	3.8	59
104	Kinetic analysis of the human erythrocyte glyoxalase system using 1H NMR and a computer model. <i>FEBS Journal</i> , 1990 , 193, 83-90		58
103	Corpus callosum morphology and its relationship to cognitive function in neurofibromatosis type 1. <i>Journal of Child Neurology</i> , 2010 , 25, 834-41	2.5	57
102	Is ischemia involved in the pathogenesis of murine cerebral malaria?. <i>American Journal of Pathology</i> , 2001 , 159, 1105-12	5.8	57
101	Changes in hepatic glutathione metabolism in diabetes. <i>Diabetes</i> , 1991 , 40, 344-348	0.9	57
100	Creatine as a booster for human brain function. How might it work?. <i>Neurochemistry International</i> , 2015 , 89, 249-59	4.4	56
99	Metabolism, compartmentation, transport and production of acetate in the cortical brain tissue slice. <i>Neurochemical Research</i> , 2012 , 37, 2541-53	4.6	56
98	Metabolites from cerebrospinal fluid in aneurysmal subarachnoid haemorrhage correlate with vasospasm and clinical outcome: a pattern-recognition 1H NMR study. <i>NMR in Biomedicine</i> , 2005 , 18, 24-33	4.4	56
97	Reduced cytosolic acidification during exercise suggests defective glycolytic activity in skeletal muscle of patients with Becker muscular dystrophy. An in vivo 31P magnetic resonance spectroscopy study. <i>Brain</i> , 1999 , 122 (Pt 1), 121-30	11.2	53
96	Brain abnormalities in Duchenne muscular dystrophy: phosphorus-31 magnetic resonance spectroscopy and neuropsychological study. <i>Lancet, The</i> , 1995 , 345, 1260-4	4.0	53
95	Brain biochemistry in Duchenne muscular dystrophy: a 1H magnetic resonance and neuropsychological study. <i>Journal of the Neurological Sciences</i> , 1998 , 160, 148-57	3.2	49
94	Do maternal opioids reduce neonatal regional brain volumes? A pilot study. <i>Journal of Perinatology</i> , 2014 , 34, 909-13	3.1	47
93	Glutamate metabolism is impaired in transgenic mice with tau hyperphosphorylation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2013 , 33, 684-91	7.3	46

92	Brain gene expression, metabolism, and bioenergetics: interrelationships in murine models of cerebral and noncerebral malaria. <i>FASEB Journal</i> , 2004 , 18, 499-510	0.9	46
91	Strategies for studies of neurotoxic mechanisms involving deficient transport of L-glutamate: antisense knockout in rat brain in vivo and changes in the neurotransmitter metabolism following inhibition of glutamate transport in guinea pig brain slices. <i>Brain Research Bulletin</i> , 2000 , 53, 373-81	3.9	44
90	Enlarged temporal lobes in Turner syndrome: an X-chromosome effect?. <i>Cerebral Cortex</i> , 2004 , 14, 156-64	4.1	42
89	Brain bioenergetics and cognitive ability. <i>Developmental Neuroscience</i> , 2003 , 25, 324-31	2.2	40
88	Modulation of brain metabolism by very low concentrations of the commonly used drug delivery vehicle dimethyl sulfoxide (DMSO). <i>Journal of Neuroscience Research</i> , 2008 , 86, 208-14	4.4	38
87	Compartmentation of metabolism probed by [2-13C]alanine: improved 13C NMR sensitivity using a CryoProbe detects evidence of a glial metabolon. <i>Neurochemistry International</i> , 2003 , 42, 93-9	4.4	37
86	Neurobiological and Cognitive Profile of Young Binge Drinkers: a Systematic Review and Meta-Analysis. <i>Neuropsychology Review</i> , 2019 , 29, 357-385	7.7	36
85	Alanine metabolism, transport, and cycling in the brain. <i>Journal of Neurochemistry</i> , 2007 , 102, 1758-1770	6	36
84	Excitatory amino acid synthesis in hypoxic brain slices: does alanine act as a substrate for glutamate production in hypoxia?. <i>Journal of Neurochemistry</i> , 1998 , 71, 2477-86	6	33
83	̢-Hydroxybutyrate and the GABAergic footprint: a metabolomic approach to unpicking the actions of GHB. <i>Journal of Neurochemistry</i> , 2010 , 115, 58-67	6	29
82	Pyruvate carboxylation in different model systems studied by (13)C MRS. <i>Neurochemical Research</i> , 2010 , 35, 1916-21	4.6	29
81	Brain activity: connectivity, sparsity, and mutual information. <i>IEEE Transactions on Medical Imaging</i> , 2015 , 34, 846-60	11.7	28
80	Anodal transcranial direct current stimulation increases brain intracellular pH and modulates bioenergetics. <i>International Journal of Neuropsychopharmacology</i> , 2013 , 16, 1695-706	5.8	28
79	A metabolomic approach to ionotropic glutamate receptor subtype function: a nuclear magnetic resonance in vitro investigation. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2006 , 26, 1005-17	7.3	27
78	White matter measures are near normal in controlled HIV infection except in those with cognitive impairment and longer HIV duration. <i>Journal of NeuroVirology</i> , 2017 , 23, 539-547	3.9	26
77	Brain activity: Conditional dissimilarity and persistent homology 2015 ,		26
76	Statistical integration of 1H NMR and MRS data from different biofluids and tissues enhances recovery of biological information from individuals with HIV-1 infection. <i>Journal of Proteome Research</i> , 2011 , 10, 1737-45	5.6	26
75	Dynamic changes in brain bioenergetics during obstructive sleep apnea. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2009 , 29, 1421-8	7.3	26

74	Alterations of GABA and glutamate-glutamine levels in premenstrual dysphoric disorder: a 3T proton magnetic resonance spectroscopy study. <i>Psychiatry Research - Neuroimaging</i> , 2015 , 231, 64-70	2.9	25
73	Abnormalities in brain biochemistry associated with lack of dystrophin: studies of the mdx mouse. <i>Neuromuscular Disorders</i> , 2002 , 12, 121-9	2.9	24
72	Uncoupling N-acetylaspartate from brain pathology: implications for Canavan disease gene therapy. <i>Acta Neuropathologica</i> , 2018 , 135, 95-113	14.3	24
71	Glyoxalase 2 deficiency in the erythrocytes of a horse: 1H NMR studies of enzyme kinetics and transport of S-lactoylglutathione. <i>Archives of Biochemistry and Biophysics</i> , 1991 , 291, 291-9	4.1	22
70	Fine-Grained Mapping of Cortical Somatotopies in Chronic Complex Regional Pain Syndrome. <i>Journal of Neuroscience</i> , 2019 , 39, 9185-9196	6.6	21
69	Statistical total correlation spectroscopy scaling for enhancement of metabolic information recovery in biological NMR spectra. <i>Analytical Chemistry</i> , 2012 , 84, 1083-91	7.8	20
68	Inhibitors of glutamate transport modulate distinct patterns in brain metabolism. <i>Journal of Neuroscience Research</i> , 2007 , 85, 342-50	4.4	20
67	Group I and II metabotropic glutamate receptors alter brain cortical metabolic and glutamate/glutamine cycle activity: a 13C NMR spectroscopy and metabolomic study. <i>Journal of Neurochemistry</i> , 2005 , 92, 405-16	6	20
66	Stereospecificity of substrate usage by glyoxalase 1: nuclear magnetic resonance studies of kinetics and hemithioacetal substrate conformation. <i>Biochemistry</i> , 1994 , 33, 3548-59	3.2	20
65	Atrophic brain signatures of mild forms of neurocognitive impairment in virally suppressed HIV infection. <i>Aids</i> , 2019 , 33, 55-66	3.5	20
64	Effects of L-glutamate transport inhibition by a conformationally restricted glutamate analogue (2S,1R,2R)-2-(carboxycyclopropyl)glycine (L-CCG III) on metabolism in brain tissue in vitro analysed by NMR spectroscopy. <i>Neurochemical Research</i> , 2002 , 27, 27-35	4.6	19
63	The relationship between thalamic GABA content and resting cortical rhythm in neuropathic pain. <i>Human Brain Mapping</i> , 2018 , 39, 1945-1956	5.9	18
62	Toluene inhalation in adolescent rats reduces flexible behaviour in adulthood and alters glutamatergic and GABAergic signalling. <i>Journal of Neurochemistry</i> , 2016 , 139, 806-822	6	18
61	Effects of glutamate transport substrates and glutamate receptor ligands on the activity of Na-/K(+)-ATPase in brain tissue in vitro. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2004 , 31, 762-9	3	18
60	An investigation of neuronal integrity in severe paediatric traumatic brain injury. <i>Child Neuropsychology</i> , 2004 , 10, 248-61	2.7	18
59	Imaging correlates of the blood-brain barrier disruption in HIV-associated neurocognitive disorder and therapeutic implications. <i>Aids</i> , 2019 , 33, 1843-1852	3.5	18
58	β-Hydroxybutyrate Boosts Mitochondrial and Neuronal Metabolism but is not Preferred Over Glucose Under Activated Conditions. <i>Neurochemical Research</i> , 2017 , 42, 1710-1723	4.6	17
57	Silent information regulator 1 modulator resveratrol increases brain lactate production and inhibits mitochondrial metabolism, whereas SRT1720 increases oxidative metabolism. <i>Journal of Neuroscience Research</i> , 2015 , 93, 1147-56	4.4	17

56	Ethanol, not detectably metabolized in brain, significantly reduces brain metabolism, probably via action at specific GABA(A) receptors and has measureable metabolic effects at very low concentrations. <i>Journal of Neurochemistry</i> , 2014 , 129, 304-14	6	17
55	Bootstrap quantification of cardiac pulsation artifact in DTI. <i>NeuroImage</i> , 2010 , 49, 631-40	7.9	17
54	Metabolic effects of blocking lactate transport in brain cortical tissue slices using an inhibitor specific to MCT1 and MCT2. <i>Neurochemical Research</i> , 2009 , 34, 1783-91	4.6	17
53	Now I know my ABC. A systems neurochemistry and functional metabolomic approach to understanding the GABAergic system. <i>Journal of Neurochemistry</i> , 2009 , 109 Suppl 1, 109-16	6	17
52	Understanding your inhibitions: modulation of brain cortical metabolism by GABA(B) receptors. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2007 , 27, 1510-20	7.3	17
51	Brain metabolic markers reflect susceptibility status in cytokine gene knockout mice with murine cerebral malaria. <i>International Journal for Parasitology</i> , 2006 , 36, 1409-18	4.3	17
50	Metabolomics of Neurotransmitters and Related Metabolites in Post-Mortem Tissue from the Dorsal and Ventral Striatum of Alcoholic Human Brain. <i>Neurochemical Research</i> , 2016 , 41, 385-97	4.6	15
49	Covertly active and progressing neurochemical abnormalities in suppressed HIV infection. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2018 , 5, e430	9.1	15
48	An Objective Short Sleep Insomnia Disorder Subtype Is Associated With Reduced Brain Metabolite Concentrations In Vivo: A Preliminary Magnetic Resonance Spectroscopy Assessment. <i>Sleep</i> , 2017 , 40,	1.1	14
47	Acetate metabolism does not reflect astrocytic activity, contributes directly to GABA synthesis, and is increased by silent information regulator 1 activation. <i>Journal of Neurochemistry</i> , 2017 , 140, 903-918	6	13
46	Understanding your inhibitions: effects of GABA and GABAA receptor modulation on brain cortical metabolism. <i>Journal of Neurochemistry</i> , 2009 , 108, 57-71	6	13
45	Creatine supplementation affects glucose homeostasis but not insulin secretion in humans. <i>Annals of Nutrition and Metabolism</i> , 2003 , 47, 11-5	4.5	13
44	For want of a nail. ramifications of a single gene deletion, dystrophin, in the brain of the mouse. <i>Frontiers in Bioscience - Landmark</i> , 2004 , 9, 74-84	2.8	12
43	Delayed labelling of brain glutamate after an intra-arterial [¹³ C]glucose bolus: evidence for aerobic metabolism of guinea pig brain glycogen store. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1999 , 1450, 297-307	4.9	11
42	Activity-dependent GABA release controls brain cortical tissue slice metabolism. <i>Journal of Neuroscience Research</i> , 2011 , 89, 1935-45	4.4	10
41	On the Reliability of Individual Brain Activity Networks. <i>IEEE Transactions on Medical Imaging</i> , 2018 , 37, 649-662	11.7	9
40	A metabolomic study of inhibition of GABA uptake in the cerebral cortex. <i>Metabolomics</i> , 2010 , 6, 67-77	4.7	9
39	Lactate-induced inhibition of glucose catabolism in guinea pig cortical brain slices. <i>Neurochemistry International</i> , 1999 , 35, 405-9	4.4	9

38	Brain amyloid in virally suppressed HIV-associated neurocognitive disorder. <i>Neurology: Neuroimmunology and NeuroInflammation</i> , 2020 , 7,	9.1	8
37	Reduced Glutamate in the Medial Prefrontal Cortex Is Associated With Emotional and Cognitive Dysregulation in People With Chronic Pain. <i>Frontiers in Neurology</i> , 2019 , 10, 1110	4.1	8
36	Rottlerin inhibits (Na ⁺ , K ⁺)-ATPase activity in brain tissue and alters D-aspartate dependent redistribution of glutamate transporter GLAST in cultured astrocytes. <i>Neurochemical Research</i> , 2009 , 34, 1767-74	4.6	8
35	Frequency drift in MR spectroscopy at 3T. <i>NeuroImage</i> , 2021 , 241, 118430	7.9	8
34	¹ H NMR spectroscopic survey of plasma and erythrocytes from selected marsupials and domestic animals of Australia. <i>Comparative Biochemistry and Physiology Part B: Comparative Biochemistry</i> , 1991 , 99, 575-97		7
33	Understanding autism spectrum disorder and social functioning in children with neurofibromatosis type 1: protocol for a cross-sectional multimodal study. <i>BMJ Open</i> , 2019 , 9, e030601	3	7
32	HIV brain latency as measured by CSF Bcl11b relates to disrupted brain cellular energy in virally suppressed HIV infection. <i>Aids</i> , 2019 , 33, 433-441	3.5	7
31	Metabolomic Approaches to Defining the Role(s) of GABA _A Receptors in the Brain. <i>Journal of NeuroImmune Pharmacology</i> , 2015 , 10, 445-56	6.9	6
30	Binge drinking in young people: protocol for a systematic review of neuropsychological, neurophysiological and neuroimaging studies. <i>BMJ Open</i> , 2018 , 8, e023629	3	6
29	A Novel Finger Illusion Reveals Reduced Weighting of Bimanual Hand Cortical Representations in People With Complex Regional Pain Syndrome. <i>Journal of Pain</i> , 2019 , 20, 171-180	5.2	6
28	Dichloroacetate (DCA) reduces brain lactate but increases brain glutamine in experimental cerebral malaria: a ¹ H-NMR study. <i>Redox Report</i> , 2000 , 5, 141-3	5.9	5
27	Stability and nonreactivity of ergothioneine in human erythrocytes studied by ¹ H NMR. <i>Magnetic Resonance in Medicine</i> , 1993 , 29, 826-9	4.4	5
26	L-Aspartate, L-Ornithine and L-Ornithine-L-Aspartate (LOLA) and Their Impact on Brain Energy Metabolism. <i>Neurochemical Research</i> , 2020 , 45, 1438-1450	4.6	4
25	Brain bioenergetics during resting wakefulness are related to neurobehavioral deficits in severe obstructive sleep apnea: a ³¹ P magnetic resonance spectroscopy study. <i>Sleep</i> , 2018 , 41,	1.1	4
24	¹ H NMR of compounds with low water solubility in the presence of erythrocytes: effects of emulsion phase separation. <i>European Biophysics Journal</i> , 2001 , 30, 69-74	1.9	4
23	Upper limb function is normal in patients with restless legs syndrome (Willis-Ekbom Disease). <i>Clinical Neurophysiology</i> , 2015 , 126, 736-42	4.3	3
22	Hand function is impaired in healthy older adults at risk of Parkinson's disease. <i>Journal of Neural Transmission</i> , 2014 , 121, 1377-86	4.3	3
21	Identifying fMRI model violations with Lagrange multiplier tests. <i>IEEE Transactions on Medical Imaging</i> , 2012 , 31, 1481-92	11.7	3

20	RE: Magnetic resonance spectroscopy of the brain: review of metabolites and clinical applications. <i>Clinical Radiology</i> , 2009 , 64, 1042-3	2.9	3
19	Comparison of the ¹ H and ³¹ P NMR Spectra of Erythrocytes and Plasma from some Australian Native Animals: Bandicoot, Echidna, Koala, Little Penguin, Tammar Wallaby, Tasmanian Devil, Tree Kangaroo and Wombat. <i>Comparative Haematology International</i> , 1993 , 3, 71-80		3
18	Actions of Alcohol in Brain: Genetics, Metabolomics, GABA Receptors, Proteomics and Glutamate Transporter GLAST/EAAT1. <i>Current Molecular Pharmacology</i> , 2021 , 14, 138-149	3.7	3
17	Piece of mind; a full systems approach is required. <i>Behavioral and Brain Sciences</i> , 2007 , 30, 167-168	0.9	2
16	Sleep spindle activity correlates with implicit statistical learning consolidation in untreated obstructive sleep apnea patients. <i>Sleep Medicine</i> , 2021 , 86, 126-134	4.6	2
15	Network comparison with frequency domain persistent homology 2016 ,		1
14	Time-to-Onset latency in fMRI: Fast detection of delayed activation 2011 ,		1
13	Mind Meld: Collaborative Approaches to Understanding How We All Think. <i>Brain Imaging and Behavior</i> , 2008 , 2, 343-349	4.1	1
12	CRPS Is Not Associated with Altered Sensorimotor Cortex GABA or Glutamate. <i>ENeuro</i> , 2020 , 7,	3.9	1
11	A Chip Off the Old Block: The Brain Slice as a Model for Metabolic Studies of Brain Compartmentation and Neuropharmacology. <i>NeuroMethods</i> , 2014 , 217-241	0.4	1
10	Additive and Synergistic Cardiovascular Disease Risk Factors and HIV Disease Markers Effects on White Matter Microstructure in Virally Suppressed HIV. <i>Journal of Acquired Immune Deficiency Syndromes (1999)</i> , 2020 , 84, 543-551	3.1	1
9	Fine-grained mapping of cortical somatotopies in chronic Complex Regional Pain Syndrome		1
8	Metabolomics in neuroscience and disease 2014 , 162-180		0
7	Emerging Concepts in Vector Development for Glial Gene Therapy: Implications for Leukodystrophies. <i>Frontiers in Cellular Neuroscience</i> , 2021 , 15, 661857	6.1	0
6	Disruption to normal excitatory and inhibitory function within the medial prefrontal cortex in people with chronic pain. <i>European Journal of Pain</i> , 2021 , 25, 2242-2256	3.7	0
5	Astrocytes, Metabolism, Signaling and Brain Drains: Introduction to the Special Issue in Honor of Gerald Dienel. <i>Neurochemical Research</i> , 2015 , 40, 2383-5	4.6	
4	Validity and reliability of measurements of aponeurosis dimensions from magnetic resonance images. <i>Scandinavian Journal of Medicine and Science in Sports</i> , 2019 , 29, 808-815	4.6	
3	P4-157: NEURAL CORRELATES OF EARLY LIFE STRESS IN A POPULATION AT HIGHER RISK FOR DEMENTIA: A PILOT STUDY IN OLDER ABORIGINAL AUSTRALIANS 2018 , 14, P1499-P1499		

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| 2 | Diffusion Tensor Imaging in Sport-Related Concussion: A Systematic Review Using an Quality Rating System. <i>Journal of Neurotrauma</i> , 2021 , 38, 3032-3046 | 5.4 |
| 1 | Brain mitochondrial dysfunction and driving simulator performance in untreated obstructive sleep apnea. <i>Journal of Sleep Research</i> , 2021 , e13482 | 5.8 |