Michael B Robinson

List of Publications by Year
in descending order

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109 papers	8,152 citations	44444 50 h-index	54771 88 g-index
109 all docs	109 docs citations	109 times ranked	7132 citing authors

#	Article	IF	Citations
1	Rapid Regulation of Glutamate Transport: Where Do We Go from Here?. Neurochemical Research, 2022, 47, 61-84.	1.6	4
2	Activation of Glutamate Transport Increases Arteriole Diameter in vivo: Implications for Neurovascular Coupling. Frontiers in Cellular Neuroscience, 2022, 16, 831061.	1.8	2
3	The brain in flux: Genetic, physiologic, and therapeutic perspectives on transporters in the CNS. Neurochemistry International, 2021, 144, 104980.	1.9	0
4	Reciprocal communication between astrocytes and endothelial cells is required for astrocytic glutamate transporter 1 (GLT-1) expression. Neurochemistry International, 2020, 139, 104787.	1.9	17
5	Glutamate Transporters and Mitochondria: Signaling, Co-compartmentalization, Functional Coupling, and Future Directions. Neurochemical Research, 2020, 45, 526-540.	1.6	25
6	Behavioral analyses of animal models of intellectual and developmental disabilities. Neurobiology of Learning and Memory, 2019, 165, 107087.	1.0	1
7	Intellectual and developmental disabilities research centers: Fifty years of scientific accomplishments. Annals of Neurology, 2019, 86, 332-343.	2.8	5
8	Molecularly defined cortical astroglia subpopulation modulates neurons via secretion of Norrin. Nature Neuroscience, 2019, 22, 741-752.	7.1	64
9	The brain in flux: Genetic, physiologic, and therapeutic perspectives on transporters in the CNS. Neurochemistry International, 2019, 123, 1-6.	1.9	4
10	Regulation of mitochondrial dynamics in astrocytes: Mechanisms, consequences, and unknowns. Glia, 2018, 66, 1213-1234.	2.5	103
11	Current technical approaches to brain energy metabolism. Glia, 2018, 66, 1138-1159.	2.5	40
12	Mice exposed to bisphenol A exhibit depressive-like behavior with neurotransmitter and neuroactive steroid dysfunction. Hormones and Behavior, 2018, 102, 93-104.	1.0	46
13	Role of Astrocytic Mitochondria in Limiting Ischemic Brain Injury?. Physiology, 2018, 33, 99-112.	1.6	15
14	Protocadherin 10 alters Î³ oscillations, amino acid levels, and their coupling; baclofen partially restores these oscillatory deficits. Neurobiology of Disease, 2017, 108, 324-338.	2.1	15
15	Brain endothelial cells induce astrocytic expression of the glutamate transporter <scp>GLT</scp>â€1 by a Notchâ€dependent mechanism. Journal of Neurochemistry, 2017, 143, 489-506.	2.1	27
16	Erratum. Advances in Neurobiology, 2017, 15, E1-E1.	1.3	1
17	Transient Oxygen/Glucose Deprivation Causes a Delayed Loss of Mitochondria and Increases Spontaneous Calcium Signaling in Astrocytic Processes. Journal of Neuroscience, 2016, 36, 7109-7127.	1.7	42
18	Tagging methyl-CpG-binding domain proteins reveals different spatiotemporal expression and supports distinct functions. Epigenomics, 2016, 8, 455-473.	1.0	25

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19	Transcriptional Regulation of Glutamate Transporters. Advances in Pharmacology, 2016, 76, 103-145.	1.2	52
20	The transcription factor Pax6 contributes to the induction of GLTâ€1 expression in astrocytes through an interaction with a distal enhancer element. Journal of Neurochemistry, 2016, 136, 262-275.	2.1	28
21	Astroglial glutamate transporters coordinate excitatory signaling and brain energetics. Neurochemistry International, 2016, 98, 56-71.	1.9	129
22	The circadian gene Rev-erbÎ± improves cellular bioenergetics and provides preconditioning for protection against oxidative stress. Free Radical Biology and Medicine, 2016, 93, 177-189.	1.3	41
23	Displacing hexokinase from mitochondrial voltageâ€dependent anion channel impairs GLTâ€1â€mediated glutamate uptake but does not disrupt interactions between GLTâ€1 and mitochondrial proteins. Journal of Neuroscience Research, 2015, 93, 999-1008.	1.3	27
24	Regulation of brain glutamate metabolism by nitric oxide and S-nitrosylation. Science Signaling, 2015, 8, ra68.	1.6	108
25	Reciprocal Regulation of Mitochondrial Dynamics and Calcium Signaling in Astrocyte Processes. Journal of Neuroscience, 2015, 35, 15199-15213.	1.7	84
26	Neuronal Activity and Glutamate Uptake Decrease Mitochondrial Mobility in Astrocytes and Position Mitochondria Near Glutamate Transporters. Journal of Neuroscience, 2014, 34, 1613-1624.	1.7	126
27	The brain in flux: Genetic, physiologic, and therapeutic perspectives on transporters in the CNS. Neurochemistry International, 2014, 73, 1-3.	1.9	2
28	Behavioral Changes and Dopaminergic Dysregulation in Mice Lacking the Nuclear Receptor Rev-erbÎ±. Molecular Endocrinology, 2014, 28, 490-498.	3.7	64
29	Genetic deletion of the neuronal glutamate transporter, EAAC1, results in decreased neuronal death after pilocarpine-induced status epilepticus. Neurochemistry International, 2014, 73, 152-158.	1.9	11
30	Inhibitors of Glutamate Dehydrogenase Block Sodium-Dependent Glutamate Uptake in Rat Brain Membranes. Frontiers in Endocrinology, 2013, 4, 123.	1.5	56
31	The glutamate transporter, GLAST, participates in a macromolecular complex that supports glutamate metabolism. Neurochemistry International, 2012, 61, 566-574.	1.9	106
32	Co-compartmentalization of the Astroglial Glutamate Transporter, GLT-1, with Glycolytic Enzymes and Mitochondria. Journal of Neuroscience, 2011, 31, 18275-18288.	1.7	175
33	Nuclear Factor-ÂB Contributes to Neuron-Dependent Induction of Glutamate Transporter-1 Expression in Astrocytes. Journal of Neuroscience, 2011, 31, 9159-9169.	1.7	79
34	Epigenetic regulation of neuronâ€dependent induction of astroglial synaptic protein GLT1. Glia, 2010, 58, 277-286.	2.5	74
35	Intracerebral microdialysis during deep brain stimulation surgery. Journal of Neuroscience Methods, 2010, 190, 106-111.	1.3	29
36	Presynaptic Regulation of Astroglial Excitatory Neurotransmitter Transporter GLT1. Neuron, 2009, 61, 880-894.	3.8	215

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37	Degradation of Glial Glutamate Transporter mRNAs Is Selectively Blockedby Inhibition of Cellular Transcription. Journal of Neurochemistry, 2008, 75, 2252-2258.	2.1	25
38	Internalization and degradation of the glutamate transporter GLT-1 in response to phorbol ester. Neurochemistry International, 2008, 52, 709-722.	1.9	50
39	Ubiquitination-mediated internalization and degradation of the astroglial glutamate transporter, GLT-1. Neurochemistry International, 2008, 53, 296-308.	1.9	59
40	The Endoplasmic Reticulum Exit of Glutamate Transporter Is Regulated by the Inducible Mammalian Yip6b/GTRAP3-18 Protein. Journal of Biological Chemistry, 2008, 283, 6175-6183.	1.6	65
41	N-Methyl-d-aspartate Receptor-dependent Regulation of the Glutamate Transporter Excitatory Amino Acid Carrier 1. Journal of Biological Chemistry, 2007, 282, 17594-17607.	1.6	31
42	Caveolin-1 Regulates the Delivery and Endocytosis of the Glutamate Transporter, Excitatory Amino Acid Carrier 1. Journal of Biological Chemistry, 2007, 282, 29855-29865.	1.6	50
43	The role of glutamate transporters in neurodegenerative diseases and potential opportunities for intervention. Neurochemistry International, 2007, 51, 333-355.	1.9	521
44	Constitutive endocytosis and recycling of the neuronal glutamate transporter, excitatory amino acid carrier 1. Journal of Neurochemistry, 2007, 103, 1917-1931.	2.1	56
45	A dominant-negative variant of SNAP-23 decreases the cell surface expression of the neuronal glutamate transporter EAAC1 by slowing constitutive delivery. Neurochemistry International, 2006, 48, 596-603.	1.9	28
46	Regulation of astrocytic glutamate transporter expression by Akt: evidence for a selective transcriptional effect on the GLT-1/EAAT2 subtype. Journal of Neurochemistry, 2006, 97, 759-771.	2.1	127
47	Behavioral and Neurochemical Alterations in Mice Lacking the RNA-Binding Protein Translin. Journal of Neuroscience, 2006, 26, 2184-2196.	1.7	65
48	A Carboxyl-terminal Determinant of the Neuronal Glutamate Transporter, EAAC1, Is Required for Platelet-derived Growth Factor-dependent Trafficking. Journal of Biological Chemistry, 2006, 281, 4876-4886.	1.6	41
49	Impaired Glutamate Transport in a Mouse Model of Tau Pathology in Astrocytes. Journal of Neuroscience, 2006, 26, 644-654.	1.7	109
50	Evidence that protein kinase CÎ± interacts with and regulates the glial glutamate transporter GLT-1. Journal of Neurochemistry, 2005, 94, 1180-1188.	2.1	57
51	Evidence that Akt mediates platelet-derived growth factor-dependent increases in activity and surface expression of the neuronal glutamate transporter, EAAC1. Neuropharmacology, 2005, 49, 872-882.	2.0	34
52	Identification of Motifs Involved in Endoplasmic Reticulum Retention-Forward Trafficking of the GLT-1 Subtype of Glutamate Transporter. Journal of Neuroscience, 2004, 24, 5183-5192.	1.7	43
53	Differential regulation of GLAST immunoreactivity and activity by protein kinase C: evidence for modification of amino and carboxyl termini. Journal of Neurochemistry, 2004, 91, 1151-1163.	2.1	47
54	Neurotransmitter transporters: why dance with so many partners?. Current Opinion in Pharmacology, 2004, 4, 30-35.	1.7	49

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55	Rapid Trafficking of the Neuronal Glutamate Transporter, EAAC1. Journal of Biological Chemistry, 2004, 279, 34505-34513.	1.6	125
56	Protein KINASE C-Dependent Remodeling of Glutamate Transporter Function. Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics, 2004, 4, 48-58.	3.4	44
57	Rottlerin, an inhibitor of protein kinase CÎ´ (PKCÎ´), inhibits astrocytic glutamate transport activity and reduces GLAST immunoreactivity by a mechanism that appears to be PKCÎ´-independent. Journal of Neurochemistry, 2003, 86, 635-645.	2.1	60
58	Signaling Pathways Take Aim at Neurotransmitter Transporters. Science Signaling, 2003, 2003, pe50-pe50.	1.6	8
59	Phorbol Myristate Acetate-Dependent Interaction of Protein Kinase CÎ± and the Neuronal Glutamate Transporter EAAC1. Journal of Neuroscience, 2003, 23, 5589-5593.	1.7	71
60	A Pilot Study ofIn VivoLiver-Directed Gene Transfer with an Adenoviral Vector in Partial Ornithine Transcarbamylase Deficiency. Human Gene Therapy, 2002, 13, 163-175.	1.4	337
61	Protein Kinase C Activation Decreases Cell Surface Expression of the GLT-1 Subtype of Glutamate Transporter. Journal of Biological Chemistry, 2002, 277, 45741-45750.	1.6	131
62	Regulation of the Neuronal Glutamate Transporter Excitatory Amino Acid Carrier-1 (EAAC1) by Different Protein Kinase C Subtypes. Molecular Pharmacology, 2002, 62, 901-910.	1.0	96
63	Cerebrospinal fluid glutamine, tryptophan, and tryptophan metabolite concentrations in dogs with portosystemic shunts. American Journal of Veterinary Research, 2002, 63, 1167-1171.	0.3	27
64	Increased Expression of the Neuronal Glutamate Transporter (EAAT3/EAAC1) in Hippocampal and Neocortical Epilepsy. Epilepsia, 2002, 43, 211-218.	2.6	131
65	The Effects of l-Glutamate and trans-(Â±)-1-Amino-1,3-Cyclopentanedicarboxylate on Phosphoinositide Hydrolysis Can Be Pharmacologically Differentiated. Journal of Neurochemistry, 2002, 63, 1291-1302.	2.1	17
66	Dibutyryl-cAMP (dbcAMP) up-regulates astrocytic chloride-dependent l-[3H]glutamate transport and expression of both system xcâ˜ subunits. Journal of Neurochemistry, 2001, 78, 276-286.	2.1	65
67	Regulated trafficking of neurotransmitter transporters: common notes but different melodies. Journal of Neurochemistry, 2001, 80, 1-11.	2.1	184
68	Differences in the Human and Mouse Amino-Terminal Leader Peptides of Ornithine Transcarbamylase Affect Mitochondrial Import and Efficacy of Adenoviral Vectors. Human Gene Therapy, 2001, 12, 1035-1046.	1.4	10
69	Regulation of glutamate transporters in health and disease. Progress in Brain Research, 2001, 132, 267-286.	0.9	115
70	Epidermal Growth Factor Receptor Agonists Increase Expression of Glutamate Transporter GLT-1 in Astrocytes through Pathways Dependent on Phosphatidylinositol 3-Kinase and Transcription Factor NF-Îº B. Molecular Pharmacology, 2000, 57, 667-678.	1.0	215
71	Platelet-derived Growth Factor Rapidly Increases Activity and Cell Surface Expression of the EAAC1 Subtype of Glutamate Transporter through Activation of Phosphatidylinositol 3-Kinase. Journal of Biological Chemistry, 2000, 275, 5228-5237.	1.6	116
72	Substrate-induced up-regulation of Na+-dependent glutamate transport activity. Neurochemistry International, 2000, 37, 147-162.	1.9	88

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73	Recombinant Adenovirus Gene Transfer in Adults with Partial Ornithine Transcarbamylase Deficiency (OTCD). Human Gene Therapy, 1999, 10, 2419-2437.	1.4	42
74	Selective inhibition of NAALADase, which converts NAAG to glutamate, reduces ischemic brain injury. Nature Medicine, 1999, 5, 1396-1402.	15.2	281
75	Correction of Ureagenesis after Gene Transfer in an Animal Model and after Liver Transplantation in Humans with Ornithine Transcarbamylase Deficiency. Pediatric Research, 1999, 46, 588-588.	1.1	19
76	Expression Patterns and Regulation of Glutamate Transporters in the Developing and Adult Nervous System. Critical Reviews in Neurobiology, 1999, 13, 169-197.	3.3	152
77	Dihydrokainate-sensitive neuronal glutamate transport is required for protection of rat cortical neurons in culture against synaptically released glutamate. European Journal of Neuroscience, 1998, 10, 2523-2531.	1.2	39
78	Rapid Communication The glutamate transporter, GLT-1, is expressed in cultured hippocampal neurons. Neurochemistry International, 1998, 33, 95-100.	1.9	54
79	[13] Examination of glutamate transporter heterogeneity using synaptosomal preparations. Methods in Enzymology, 1998, 296, 189-202.	0.4	21
80	Multiple Signaling Pathways Regulate Cell Surface Expression and Activity of the Excitatory Amino Acid Carrier 1 Subtype of Glu Transporter in C6 Glioma. Journal of Neuroscience, 1998, 18, 2475-2485.	1.7	279
81	Regulation of the Glial Na⁺-Dependent Glutamate Transporters by Cyclic AMP Analogs and Neurons. Molecular Pharmacology, 1998, 53, 355-369.	1.0	292
82	Adenovirus-Mediated in Vivo Gene Transfer Rapidly Protects Ornithine Transcarbamylase-Deficient Mice from an Ammonium Challenge. Pediatric Research, 1997, 41, 527-534.	1.1	30
83	Heterogeneity and Functional Properties of Subtypes of Sodium-Dependent Glutamate Transporters in the Mammalian Central Nervous System. Advances in Pharmacology, 1996, 37, 69-115.	1.2	170
84	The Glutamate Transport Inhibitor L-trans-pyrrolidine-2,4-dicarboxylate Indirectly Evokes NMDA Receptor Mediated Neurotoxicity in Rat Cortical Cultures. European Journal of Neuroscience, 1996, 8, 1840-1852.	1.2	65
85	Prolonged Metabolic Correction in Adult Ornithine Transcarbamylase-deficient Mice with Adenoviral Vectors. Journal of Biological Chemistry, 1996, 271, 3639-3646.	1.6	146
86	Rapid Stimulation of EAAC1â€Mediated Na⁺â€Dependent <scp>l</scp>â€Glutamate Transport Activity in C6 Glioma Cells by Phorbol Ester. Journal of Neurochemistry, 1996, 67, 508-516.	2.1	125
87	Prospects for gene therapy in ornithine carbamoyltransferase deficiency and other urea cycle disorders. Mental Retardation and Developmental Disabilities Research Reviews, 1995, 1, 62-70.	3.5	4
88	Neurotransmitter alterations in congenital hyperammonemia. Mental Retardation and Developmental Disabilities Research Reviews, 1995, 1, 201-207.	3.5	4
89	Intrastriatal injections of the succinate dehydrogenase inhibitor, malonate, cause a rise in extracellular amino acids that is blocked by MK-801. Brain Research, 1995, 684, 221-224.	1.1	29
90	Evidence of excitotoxicity in the brain of the ornithine carbamoyltransferase deficient sparse fur mouse. Developmental Brain Research, 1995, 90, 35-44.	2.1	43

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91	Pharmacology of Sodiumâ€Dependent Highâ€Affinity <scp>l</scp>â€[³H]Glutamate Transport in Glial Cultures. Journal of Neurochemistry, 1995, 64, 2572-2580.	2.1	73
92	Quinolinic acid in children with congenital hyperammonemia. Annals of Neurology, 1993, 34, 676-681.	2.8	48
93	Subtypes of Sodium-Dependent High-Affinity L-[3H]Glutamate Transport Activity: Pharmacologic Specificity and Regulation by Sodium and Potassium. Journal of Neurochemistry, 1993, 60, 167-179.	2.1	129
94	Inhibition of Glutamate Uptake withl-trans-Pyrrolidine-2,4-Dicarboxylate Potentiates Glutamate Toxicity in Primary Hippocampal Cultures. Journal of Neurochemistry, 1993, 61, 2099-2103.	2.1	90
95	Repeated exposure to hyperbaric oxygen sensitizes rats to oxygen-induced seizures. Brain Research, 1993, 632, 143-149.	1.1	27
96	Multiple Subtypes of Excitatory Amino Acid Receptors Coupled to the Hydrolysis of Phosphoinositides in Rat Brain. Journal of Neurochemistry, 1993, 61, 586-593.	2.1	15
97	Brain Serotonin2and Serotonin1AReceptors Are Altered in the Congenitally Hyperammonemic Sparse Fur Mouse. Journal of Neurochemistry, 1992, 58, 1016-1022.	2.1	39
98	Multiple Mechanisms for Inhibition of Excitatory Amino Acid Receptors Coupled to Phosphoinositide Hydrolysis. Journal of Neurochemistry, 1992, 59, 1893-1904.	2.1	32
99	Pharmacologically distinct sodium-dependentl-[3H]glutamate transport processes in rat brain. Brain Research, 1991, 544, 196-202.	1.1	155
100	Seizures decrease regional enzymatic hydrolysis of N-acetyl-aspartylglutamate in rat brain. Brain Research, 1989, 505, 130-134.	1.1	20
101	The effects of N-acetylated alpha-linked acidic dipeptidase (NAALADase) inhibitors on [3H]NAAG catabolism in vivo. Neuroscience Letters, 1989, 100, 295-300.	1.0	48
102	Calcium-Dependent Evoked Release of N[3H]Acetylaspartylglutamate from the Optic Pathway. Journal of Neurochemistry, 1988, 51, 1956-1959.	2.1	67
103	Hydrolysis of the Brain Dipeptide N-Acetyl-l-Aspartyl-l-Glutamate: Subcellular and Regional Distribution, Ontogeny, and the Effect of Lesions on N-Acetylated-?-Linked Acidic Dipeptidase Activity. Journal of Neurochemistry, 1988, 50, 1200-1209.	2.1	78
104	Effect of Sodium Benzoate and Sodium Phenylacetate on Brain Serotonin Turnover in the Ornithine Transcarbamylase-Deficient Sparse-Fur Mouse. Pediatric Research, 1988, 23, 368-374.	1.1	34
105	Glutamate and related acidic excitatory neurotransmitters: from basic science to clinical application. FASEB Journal, 1987, 1, 446-455.	0.2	188
106	Cyclic analogs of 2-amino-4-phosphonobutanoic acid (APB) and their inhibition of hippocampal excitatory transmission and displacement of [3H]APB binding. Journal of Medicinal Chemistry, 1986, 29, 1988-1995.	2.9	37
107	Exposure of hippocampal slices to quisqualate sensitizes synaptic responses to phosphonate-containing analogues of glutamate. Brain Research, 1986, 381, 187-190.	1.1	46
108	Kynurenic acid as an antagonist of hippocampal excitatory transmission. Brain Research, 1984, 309, 119-126.	1.1	61

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109	Structure - function relationships for gamma-substituted glutamate analogues on dentate granule cells. Brain Research, 1983, 272, 299-309.	1.1	31