# Ursula Sonnewald

List of Publications by Year
in descending order



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|---|---|---|---|
| 138 papers | 7,387 citations | 47409 49 h-index | 87275 74 g-index |
| 139 all docs | 139 docs citations | 139 times ranked | 7065 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Deletion of Neuronal GLT-1 in Mice Reveals Its Role in Synaptic Glutamate Homeostasis and Mitochondrial Function. Journal of Neuroscience, 2019, 39, 4847-4863. | 1.7 | 42 |
| 2 | Astrocytic pyruvate carboxylation: Status after 35 years. Journal of Neuroscience Research, 2019, 97, 890-896. | 1.3 | 37 |
| 3 | Quantification of Metabolic Rearrangements During Neural Stem Cells Differentiation into Astrocytes by Metabolic Flux Analysis. Neurochemical Research, 2017, 42, 244-253. | 1.6 | 28 |
| 4 | Glucose and Intermediary Metabolism and Astrocyteâ€"Neuron Interactions Following Neonatal Hypoxiaâ€"Ischemia in Rat. Neurochemical Research, 2017, 42, 115-132. | 1.6 | 37 |
| 5 | Oligodendrocytes Do Not Export NAA-Derived Aspartate In Vitro. Neurochemical Research, 2017, 42, 827-837. | 1.6 | 15 |
| 6 | No improvement of neuronal metabolism in the reperfusion phase with melatonin treatment after hypoxicâ€ischemic brain injury in the neonatal rat. Journal of Neurochemistry, 2016, 136, 339-350. | 2.1 | 18 |
| 7 | System N transporters are critical for glutamine release and modulate metabolic fluxes of glucose and acetate in cultured cortical astrocytes: changes induced by ammonia. Journal of Neurochemistry, 2016, 136, 329-338. | 2.1 | 21 |
| 8 | Anaplerosis for Glutamate Synthesis in the Neonate and in Adulthood. Advances in Neurobiology, 2016, 13, 43-58. | 1.3 | 12 |
| 9 | Introduction to the Glutamateâ€"Glutamine Cycle. Advances in Neurobiology, 2016, 13, 1-7. | 1.3 | 35 |
| 10 | Characterization of glucoseâ€related metabolic pathways in differentiated rat oligodendrocyte lineage cells. Glia, 2016, 64, 21-34. | 2.5 | 71 |
| 11 | Oligodendrocytes: Development, Physiology and Glucose Metabolism. Advances in Neurobiology, 2016, 13, 275-294. | 1.3 | 17 |
| 12 | Glutamate oxidation in astrocytes: Roles of glutamate dehydrogenase and aminotransferases. Journal of Neuroscience Research, 2016, 94, 1561-1571. | 1.3 | 80 |
| 13 | Functional metabolic interactions of human neuron-astrocyte 3D in vitro networks. Scientific Reports, 2016, 6, 33285. | 1.6 | 16 |
| 14 | Carbon monoxide improves neuronal differentiation and yield by increasing the functioning and number of mitochondria. Journal of Neurochemistry, 2016, 138, 423-435. | 2.1 | 22 |
| 15 | Modification of Astrocyte Metabolism as an Approach to the Treatment of Epilepsy: Triheptanoin and Acetyl-l-Carnitine. Neurochemical Research, 2016, 41, 86-95. | 1.6 | 11 |
| 16 | Glucose metabolism and astrocyteâ€"neuron interactions in the neonatal brain. Neurochemistry International, 2015, 82, 33-41. | 1.9 | 74 |
| 17 | Glutamate neurotransmission is affected in prenatally stressed offspring. Neurochemistry International, 2015, 88, 73-87. | 1.9 | 32 |
| 18 | Astrocyteâ€neuronal interactions in epileptogenesis. Journal of Neuroscience Research, 2015, 93, 1157-1164. | 1.3 | 16 |

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| 19 | The anticonvulsant actions of carisbamate associate with alterations in astrocyte glutamine metabolism in the lithiumâ€“pilocarpine epilepsy model. Journal of Neurochemistry, 2015, 132, 532-545. | 2.1 | 11 |
| 20 | Acetyl-l-carnitine versus placebo for migraine prophylaxis: A randomized, triple-blind, crossover study. Cephalalgia, 2015, 35, 987-995. | 1.8 | 17 |
| 21 | Glutamate: Where does it come from and where does it go?. Neurochemistry International, 2015, 88, 47-52. | 1.9 | 23 |
| 22 | The Glutamineâ€“Glutamate/GABA Cycle: Function, Regional Differences in Glutamate and GABA Production and Effects of Interference with GABA Metabolism. Neurochemical Research, 2015, 40, 402-409. | 1.6 | 177 |
| 23 | A Subconvulsive Dose of Kainate Selectively Compromises Astrocytic Metabolism in the Mouse Brain <i>In Vivo</i>. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1340-1346. | 2.4 | 15 |
| 24 | Altered Astrocyteâ€“Neuronal Interactions After Hypoxia-Ischemia in the Neonatal Brain in Female and Male Rats. Stroke, 2014, 45, 2777-2785. | 1.0 | 61 |
| 25 | Neuronâ€“Astrocyte Interactions, Pyruvate Carboxylation and the Pentose Phosphate Pathway in the Neonatal Rat Brain. Neurochemical Research, 2014, 39, 556-569. | 1.6 | 38 |
| 26 | The Pentose Phosphate Pathway and Pyruvate Carboxylation after Neonatal Hypoxic-Ischemic Brain Injury. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 724-734. | 2.4 | 43 |
| 27 | Triheptanoin partially restores levels of tricarboxylic acid cycle intermediates in the mouse pilocarpine model of epilepsy. Journal of Neurochemistry, 2014, 129, 107-119. | 2.1 | 49 |
| 28 | Neuronal and Astrocytic Metabolism in a Transgenic Rat Model of Alzheimer's Disease. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 906-914. | 2.4 | 58 |
| 29 | Glutamate synthesis has to be matched by its degradation â€“ where do all the carbons go?. Journal of Neurochemistry, 2014, 131, 399-406. | 2.1 | 133 |
| 30 | The <scp>GLT</scp>â€1 (<scp>EAAT</scp>2; slc1a2) glutamate transporter is essential for glutamate homeostasis in the neocortex of the mouse. Journal of Neurochemistry, 2014, 128, 641-649. | 2.1 | 45 |
| 31 | Metabolic Mapping of Astrocytes and Neurons in Culture Using Stable Isotopes and Gas Chromatography-Mass Spectrometry (GC-MS). Neuromethods, 2014, , 73-105. | 0.2 | 31 |
| 32 | Glutamate Metabolism is Impaired in Transgenic Mice with Tau Hyperphosphorylation. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 684-691. | 2.4 | 54 |
| 33 | Brain Mitochondrial Metabolic Dysfunction and Glutamate Level Reduction in the Pilocarpine Model of Temporal Lobe Epilepsy in Mice. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1090-1097. | 2.4 | 57 |
| 34 | Metabolic Aspects of Neuron-Oligodendrocyte-Astrocyte Interactions. Frontiers in Endocrinology, 2013, 4, 54. | 1.5 | 70 |
| 35 | Region- and Age-Dependent Alterations of Glial-Neuronal Metabolic Interactions Correlate with CNS Pathology in a Mouse Model of Globoid Cell Leukodystrophy. Journal of Cerebral Blood Flow and Metabolism, 2013, 33, 1127-1137. | 2.4 | 19 |
| 36 | Energy Metabolism of the Brain. , 2012, , 200-231. |  | 79 |

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|---|---|---|---|
| 37 | Quantitative Importance of the Pentose Phosphate Pathway Determined by Incorporation of <sup>13</sup>C from [2-<sup>13</sup>C]- and [3-<sup>13</sup>C]Glucose into TCA Cycle Intermediates and Neurotransmitter Amino Acids in Functionally Intact Neurons. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 1788-1799. | 2.4 | 54 |
| 38 | Chronic acetyl-l-carnitine alters brain energy metabolism and increases noradrenaline and serotonin content in healthy mice. Neurochemistry International, 2012, 61, 100-107. | 1.9 | 65 |
| 39 | Dietary supplementation with acetyl-l-carnitine in seizure treatment of pentylenetetrazole kindled mice. Neurochemistry International, 2012, 61, 444-454. | 1.9 | 14 |
| 40 | Triheptanoinâ€"A medium chain triglyceride with odd chain fatty acids: A new anaplerotic anticonvulsant treatment?. Epilepsy Research, 2012, 100, 239-244. | 0.8 | 68 |
| 41 | Altered neurochemical profile in the <scp>M</scp>cGillâ€‹<scp>R</scp>â€‹<scp>T</scp>hy1â€‹<scp>APP</scp> rat model of <scp>A</scp>lzheimer's disease: a longitudinal <i>in vivo</i><sup>1</sup>H <scp>MRS</scp> study. Journal of Neurochemistry, 2012, 123, 532-541. | 2.1 | 34 |
| 42 | Direct measurement of backflux between oxaloacetate and fumarate following pyruvate carboxylation. Glia, 2012, 60, 147-158. | 2.5 | 20 |
| 43 | 13C NMR Spectroscopy as a Tool in Neurobiology. Advances in Neurobiology, 2012, , 221-253. | 1.3 | 2 |
| 44 | The role of glia in neuronal recovery following anoxia: In vitro evidence of neuronal adaptation. Neurochemistry International, 2011, 58, 665-675. | 1.9 | 18 |
| 45 | Î²-Hydroxybutyrate is the preferred substrate for GABA and glutamate synthesis while glucose is indispensable during depolarization in cultured GABAergic neurons. Neurochemistry International, 2011, 59, 309-318. | 1.9 | 18 |
| 46 | A comprehensive metabolic profile of cultured astrocytes using isotopic transient metabolic flux analysis and 13C-labeled glucose. Frontiers in Neuroenergetics, 2011, 3, 5. | 5.3 | 35 |
| 47 | Knockout of GAD65 has Major Impact on Synaptic GABA Synthesized from Astrocyte-Derived Glutamine. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 494-503. | 2.4 | 70 |
| 48 | Altered <sup>13</sup>C Glucose Metabolism in the Corticoâ€"Striatoâ€"Thalamoâ€"Cortical Loop in the MK-801 Rat Model of Schizophrenia. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 976-985. | 2.4 | 24 |
| 49 | Reduced Astrocytic Contribution to the Turnover of Glutamate, Glutamine, and GABA Characterizes the Latent Phase in the Kainate Model of Temporal Lobe Epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2011, 31, 1675-1686. | 2.4 | 30 |
| 50 | [2,4-13C]Î²-hydroxybutyrate Metabolism in Astrocytes and C6 Glioblastoma Cells. Neurochemical Research, 2011, 36, 1566-1573. | 1.6 | 15 |
| 51 | Tricarboxylic Acid Cycle Activity Measured by 13C Magnetic Resonance Spectroscopy in Rats Subjected to the Kaolin Model of Obstructed Hydrocephalus. Neurochemical Research, 2011, 36, 1801-1808. | 1.6 | 6 |
| 52 | Detoxification of Ammonia in Mouse Cortical GABAergic Cell Cultures Increases Neuronal Oxidative Metabolism and Reveals an Emerging Role for Release of Glucose-Derived Alanine. Neurotoxicity Research, 2011, 19, 496-510. | 1.3 | 43 |
| 53 | Estimation of intracellular fluxes in cerebellar neurons after hypoglycemia: Importance of the pyruvate recycling pathway and glutamine oxidation. Journal of Neuroscience Research, 2011, 89, 700-710. | 1.3 | 29 |
| 54 | Brain [Uâ€‹<sup>13</sup>C]glucose metabolism in mice with decreased Î±â€‹ketoglutarate dehydrogenase complex activity. Journal of Neuroscience Research, 2011, 89, 1997-2007. | 1.3 | 18 |

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| 55 | Pyruvate Carboxylation in Different Model Systems Studied by 13C MRS. Neurochemical Research, 2010, 35, 1916-1921. | 1.6 | 33 |
| 56 | Alteration of glialâ€neuronal metabolic interactions in a mouse model of Alexander disease. Glia, 2010, 58, 1228-1234. | 2.5 | 26 |
| 57 | Neuronal hyperexcitability and seizures are associated with changes in glialâ€“neuronal interactions in the hippocampus of a mouse model of epilepsy with mental retardation. Journal of Neurochemistry, 2010, 115, 1445-1454. | 2.1 | 17 |
| 58 | Mild reduction in the activity of the Î±â€ketoglutarate dehydrogenase complex elevates GABA shunt and glycolysis. Journal of Neurochemistry, 2009, 109, 214-221. | 2.1 | 46 |
| 59 | Availability of neurotransmitter glutamate is diminished when Î²â€hydroxybutyrate replaces glucose in cultured neurons. Journal of Neurochemistry, 2009, 110, 80-91. | 2.1 | 51 |
| 60 | Energy and Amino Acid Neurotransmitter Metabolism in Astrocytes. , 2009, , 177-200. | | 13 |
| 61 | Limbic Structures Show Altered Glialâ€“Neuronal Metabolism in the Chronic Phase of Kainate Induced Epilepsy. Neurochemical Research, 2008, 33, 257-266. | 1.6 | 50 |
| 62 | Expression of glutamine synthetase and glutamate dehydrogenase in the latent phase and chronic phase in the kainate model of temporal lobe epilepsy. Glia, 2008, 56, 856-868. | 2.5 | 77 |
| 63 | Brain metabolism in adult chronic hydrocephalus. Journal of Neurochemistry, 2008, 106, 1515-1524. | 2.1 | 74 |
| 64 | How do glialâ€“neuronal interactions fit into current neurotransmitter hypotheses of schizophrenia?. Neurochemistry International, 2007, 50, 291-301. | 1.9 | 73 |
| 65 | Long-term kainic acid exposure reveals compartmentation of glutamate and glutamine metabolism in cultured cerebellar neurons. Neurochemistry International, 2007, 50, 1004-1013. | 1.9 | 3 |
| 66 | Hypoglutamatergic activity in the STOP knockout mouse: A potential model for chronic untreated schizophrenia. Journal of Neuroscience Research, 2007, 85, 3487-3493. | 1.3 | 34 |
| 67 | Pyruvate recycling in cultured neurons from cerebellum. Journal of Neuroscience Research, 2007, 85, 3318-3325. | 1.3 | 58 |
| 68 | Glutamate is Preferred over Glutamine for Intermediary Metabolism in Cultured Cerebellar Neurons. Journal of Cerebral Blood Flow and Metabolism, 2007, 27, 811-820. | 2.4 | 40 |
| 69 | Astrocytes may play a role in the etiology of absence epilepsy: A comparison between immature GAERS not yet expressing seizures and adults. Neurobiology of Disease, 2007, 28, 227-235. | 2.1 | 24 |
| 70 | Energy substrates to support glutamatergic and GABAergic synaptic function: Role of glycogen, glucose and lactate. Neurotoxicity Research, 2007, 12, 263-268. | 1.3 | 47 |
| 71 | Complex Glutamate Labeling from [U-13C]glucose or [U-13C]lactate in Co-cultures of Cerebellar Neurons and Astrocytes. Neurochemical Research, 2007, 32, 671-680. | 1.6 | 21 |
| 72 | Glialâ€“Neuronal Interactions are Impaired in the Schizophrenia Model of Repeated MK801 Exposure. Neuropsychopharmacology, 2006, 31, 1880-1887. | 2.8 | 72 |

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| 73 | Repeated injection of MK801: An animal model of schizophrenia?. Neurochemistry International, 2006, 48, 541-546. | 1.9 | 63 |
| 74 | Neuronalâ€“glial interactions in rats fed a ketogenic diet. Neurochemistry International, 2006, 48, 498-507. | 1.9 | 130 |
| 75 | Demonstration of extensive GABA synthesis in the small population of GAD positive neurons in cerebellar cultures by the use of pharmacological tools. Neurochemistry International, 2006, 48, 572-578. | 1.9 | 23 |
| 76 | Glucose is Necessary to Maintain Neurotransmitter Homeostasis during Synaptic Activity in Cultured Glutamatergic Neurons. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1285-1297. | 2.4 | 153 |
| 77 | Cortical Glutamate Metabolism is Enhanced in a Genetic Model of Absence Epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2006, 26, 1496-1506. | 2.4 | 37 |
| 78 | Neuronal and astrocytic shuttle mechanisms for cytosolic-mitochondrial transfer of reducing equivalents: Current evidence and pharmacological tools. Biochemical Pharmacology, 2006, 71, 399-407. | 2.0 | 278 |
| 79 | Inhibitors of the Î±-ketoglutarate dehydrogenase complex alter [1-13C]glucose and [U-13C]glutamate metabolism in cerebellar granule neurons. Journal of Neuroscience Research, 2006, 83, 450-458. | 1.3 | 50 |
| 80 | Impaired glutamine metabolism in NMDA receptor hypofunction induced by MK801. Journal of Neurochemistry, 2005, 94, 1594-1603. | 2.1 | 27 |
| 81 | Metabolism is Normal in Astrocytes in Chronically Epileptic Rats: A 13C NMR Study of Neuronalâ€"Glial Interactions in a Model of Temporal Lobe Epilepsy. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, 1254-1264. | 2.4 | 72 |
| 82 | Pentylenetetrazole affects metabolism of astrocytes in culture. Journal of Neuroscience Research, 2005, 79, 48-54. | 1.3 | 11 |
| 83 | Homeostasis of neuroactive amino acids in cultured cerebellar and neocortical neurons is influenced by environmental cues. Journal of Neuroscience Research, 2005, 79, 97-105. | 1.3 | 8 |
| 84 | Role of glutamine and neuronal glutamate uptake in glutamate homeostasis and synthesis during vesicular release in cultured glutamatergic neurons. Neurochemistry International, 2005, 47, 92-102. | 1.9 | 89 |
| 85 | First direct demonstration of extensive GABA synthesis in mouse cerebellar neuronal cultures. Journal of Neurochemistry, 2004, 91, 796-803. | 2.1 | 48 |
| 86 | Intracellular metabolic compartmentation assessed by 13C magnetic resonance spectroscopy. Neurochemistry International, 2004, 45, 305-310. | 1.9 | 42 |
| 87 | Changes of glial?neuronal interaction and metabolism after a subconvulsive dose of pentylenetetrazole. Neurochemistry International, 2004, 45, 739-745. | 1.9 | 22 |
| 88 | Neuronal glial interaction in different neurological diseases studied byex vivo13C NMR spectroscopy. NMR in Biomedicine, 2003, 16, 424-429. | 1.6 | 66 |
| 89 | Astrocyte metabolism is disturbed in the early development of experimental hydrocephalus. Journal of Neurochemistry, 2003, 85, 274-281. | 2.1 | 17 |
| 90 | Pentylenetetrazole decreases metabolic glutamate turnover in rat brain. Journal of Neurochemistry, 2003, 85, 1200-1207. | 2.1 | 36 |

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| 91 | Gliaâ€"neuronal interactions following kainate injection in rats. Neurochemistry International, 2003, 42, 101-106. | 1.9 | 30 |
| 92 | Differential roles of alanine in GABAergic and glutamatergic neurons. Neurochemistry International, 2003, 43, 311-315. | 1.9 | 54 |
| 93 | The Neuron-Glia Unit in Neuropathology: Is it a Double-Edged Sword?. No Junkan Taisha = Cerebral Blood Flow and Metabolism, 2003, 15, 95-100. | 0.1 | 0 |
| 94 | Pharmacology and Toxicology of Astrocyte-Neuron Glutamate Transport and Cycling. Journal of Pharmacology and Experimental Therapeutics, 2002, 301, 1-6. | 1.3 | 89 |
| 95 | Effects of pentylenetetrazole and glutamate on metabolism of [U-13C]glucose in cultured cerebellar granule neurons. Neurochemistry International, 2002, 40, 181-187. | 1.9 | 14 |
| 96 | Alterations in brain metabolism, CNS morphology and CSF dynamics in adult rats with kaolin-induced hydrocephalus. Brain Research, 2002, 927, 35-41. | 1.1 | 36 |
| 97 | A Possible Role of Alanine for Ammonia Transfer Between Astrocytes and Glutamatergic Neurons. Journal of Neurochemistry, 2002, 75, 471-479. | 2.1 | 173 |
| 98 | Î±-Ketoisocaproate Alters the Production of Both Lactate and Aspartate from [U-13C]Glutamate in Astrocytes: A 13C NMR Study. Journal of Neurochemistry, 2002, 70, 1001-1008. | 2.1 | 23 |
| 99 | The GABA Paradox. Journal of Neurochemistry, 2002, 73, 1335-1342. | 2.1 | 140 |
| 100 | Citrate, beneficial or deleterious in the CNS?. Neurochemical Research, 2002, 27, 155-159. | 1.6 | 4 |
| 101 | Effects of potassium and glutamine on metabolism of glucose in astrocytes. Neurochemical Research, 2002, 27, 167-171. | 1.6 | 9 |
| 102 | Metabolic compartmentation in cortical synaptosomes: influence of glucose and preferential incorporation of endogenous glutamate into GABA. Neurochemical Research, 2002, 27, 43-50. | 1.6 | 47 |
| 103 | Demonstration of pyruvate recycling in primary cultures of neocortical astrocytes but not in neurons. Neurochemical Research, 2002, 27, 1431-1437. | 1.6 | 80 |
| 104 | Glutamate decreases pyruvate carboxylase activity and spares glucose as energy substrate in cultured cerebellar astrocytes. Journal of Neuroscience Research, 2001, 66, 1127-1132. | 1.3 | 42 |
| 105 | Effect of glutamine and GABA on [U-13C]glutamate metabolism in cerebellar astrocytes and granule neurons. Journal of Neuroscience Research, 2001, 66, 885-890. | 1.3 | 14 |
| 106 | Differential expression of glutamate dehydrogenase in cultured neurons and astrocytes from mouse cerebellum and cerebral cortex. Journal of Neuroscience Research, 2001, 66, 909-913. | 1.3 | 55 |
| 107 | Elucidation of the quantitative significance of pyruvate carboxylation in cultured cerebellar neurons and astrocytes. Journal of Neuroscience Research, 2001, 66, 763-770. | 1.3 | 71 |
| 108 | Metabolic distinction between vesicular and cytosolic GABA in cultured GABAergic neurons using13C magnetic resonance spectroscopy. Journal of Neuroscience Research, 2001, 63, 347-355. | 1.3 | 73 |

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| 109 | Multiple compartments with different metabolic characteristics are involved in biosynthesis of intracellular and released glutamine and citrate in astrocytes. Glia, 2001, 35, 246-252. | 2.5 | 80 |
| 110 | Differences in Neurotransmitter Synthesis and Intermediary Metabolism between Glutamatergic and GABAergic Neurons during 4 Hours of Middle Cerebral Artery Occlusion in the Rat: The Role of Astrocytes in Neuronal Survival. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 1451-1463. | 2.4 | 72 |
| 111 | <sup>13</sup>C MR Spectroscopy Study of Lactate as Substrate for Rat Brain. Developmental Neuroscience, 2000, 22, 429-436. | 1.0 | 119 |
| 112 | Proton magnetic resonance spectroscopy of cerebrospinal fluid in neurodegenerative disease: Indication of glial energy impairment in Huntington chorea, but not Parkinson disease. Journal of Neuroscience Research, 2000, 60, 779-782. | 1.3 | 34 |
| 113 | Metabolism of 3-<sup>13</sup>C-Malate in Primary Cultures of Mouse Astrocytes. Developmental Neuroscience, 2000, 22, 456-462. | 1.0 | 19 |
| 114 | Amino acid neurotransmitter metabolism in neurones and glia following kainate injection in rats. Neuroscience Letters, 2000, 279, 169-172. | 1.0 | 20 |
| 115 | Mitochondrial Compartmentation at the Cellular Level: Astrocytes and Neurons. Annals of the New York Academy of Sciences, 1999, 893, 421-426. | 1.8 | 16 |
| 116 | Decreased glutamate metabolism in cultured astrocytes in the presence of thiopental. Biochemical Pharmacology, 1999, 58, 1075-1080. | 2.0 | 29 |
| 117 | Synthesis of vesicular GABA from glutamine involves TCA cycle metabolism in neocortical neurons. Journal of Neuroscience Research, 1999, 57, 342-349. | 1.3 | 61 |
| 118 | Synthesis of vesicular GABA from glutamine involves TCA cycle metabolism in neocortical neurons. Journal of Neuroscience Research, 1999, 57, 342-349. | 1.3 | 1 |
| 119 | In Vivo Injection of [1-13C]Glucose and [1,2-13C]Acetate Combined with Ex Vivo13C Nuclear Magnetic Resonance Spectroscopy: A Novel Approach to the Study of Middle Cerebral Artery Occlusion in the Rat. Journal of Cerebral Blood Flow and Metabolism, 1998, 18, 1223-1232. | 2.4 | 73 |
| 120 | Effect of orotic acid on the metabolism of cerebral cortical astrocytes during hypoxia and reoxygenation: an NMR spectroscopy study. , 1998, 51, 103. | | 9 |
| 121 | [U-13C]glutamate metabolism in astrocytes during hypoglycemia and hypoxia. Journal of Neuroscience Research, 1998, 51, 636-645. | 1.3 | 57 |
| 122 | [U-13C]aspartate metabolism in cultured cortical astrocytes and cerebellar granule neurons studied by NMR spectroscopy. , 1998, 23, 271-277. | | 36 |
| 123 | Quantification of the GABA Shunt and the Importance of the GABA Shunt Versus the 2â€Oxoglutarate Dehydrogenase Pathway in GABAergic Neurons. Journal of Neurochemistry, 1998, 71, 1511-1518. | 2.1 | 66 |
| 124 | [U-13C]Glutamate metabolism in rat brain mitochondria reveals malic enzyme activity. NeuroReport, 1997, 8, 1567-1570. | 0.6 | 23 |
| 125 | Lactate formation from [U-13C]aspartate in cultured astrocytes: compartmentation of pyruvate metabolism. Neuroscience Letters, 1997, 237, 117-120. | 1.0 | 40 |
| 126 | Trafficking of Amino Acids between Neurons and Glia In Vivo. Effects of Inhibition of Glial Metabolism by Fluoroacetate. Journal of Cerebral Blood Flow and Metabolism, 1997, 17, 1230-1238. | 2.4 | 162 |

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|---|---|---|---|
| 127 | Glutamate transport and metabolism in astrocytes. , 1997, 21, 56-63. | | 235 |
| 128 | Trafficking between glia and neurons of TCA cycle intermediates and related metabolites. , 1997, 21, 99-105. | | 180 |
| 129 | NMR spectroscopy study of the effect of 3-nitropropionic acid on glutamate metabolism in cultured astrocytes. , 1997, 47, 642-649. | | 15 |
| 130 | Role of Astrocytes in Glutamate Homeostasis. Advances in Experimental Medicine and Biology, 1997, 429, 195-206. | 0.8 | 34 |
| 131 | MRS study of glutamate metabolism in cultured neurons/glia. Neurochemical Research, 1996, 21, 987-993. | 1.6 | 57 |
| 132 | Evaluation of the importance of transamination versus deamination in astrocytic metabolism of [U-13C] glutamate. , 1996, 17, 160-168. | | 99 |
| 133 | Exogenous Glutamate Concentration Regulates the Metabolic Fate of Glutamate in Astrocytes. Journal of Neurochemistry, 1996, 66, 386-393. | 2.1 | 332 |
| 134 | Lactate metabolism in mouse brain astrocytes studied by [13C]NMR spectroscopy. NeuroReport, 1995, 6, 2201-2204. | 0.6 | 27 |
| 135 | Glialâ€Neuronal Interactions as Studied by Cerebral Metabolism of [2â€‹<sup>13</sup>C]Acetate and [1â€‹<sup>13</sup>C]Glucose: An Ex Vivo <sup>13</sup>C NMR Spectroscopic Study. Journal of Neurochemistry, 1995, 64, 2773-2782. | 2.1 | 147 |
| 136 | Glial Formation of Pyruvate and Lactate from TCA Cycle Intermediates: Implications for the Inactivation of Transmitter Amino Acids?. Journal of Neurochemistry, 1995, 65, 2227-2234. | 2.1 | 82 |
| 137 | Uptake, Release, and Metabolism of Citrate in Neurons and Astrocytes in Primary Cultures. Journal of Neurochemistry, 1994, 62, 1727-1733. | 2.1 | 85 |
| 138 | Glutamate and Glutamine Metabolism and Compartmentation in Astrocytes. Developmental Neuroscience, 1993, 15, 359-366. | 1.0 | 165 |