Rebecca Jane Rylett

List of Publications by Year
in descending order

51	1,996	218677	243625
papers	citations	26 h-index	44 g-index

51	51	51	2327
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Differential regulation of the highâ€affinity choline transporter by wildâ€type and Swedish mutant amyloid precursor protein. Journal of Neurochemistry, 2015, 134, 769-782.	3.9	9
2	Attenuation of Oxidative Stress in HEK 293 Cells by the TCM Constituents Schisanhenol, Baicalein, Resveratrol or Crocetin and Two Defined Mixtures. Journal of Pharmacy and Pharmaceutical Sciences, 2015, 18, 661.	2.1	10
3	Regulation of the highâ€affinity choline transporter activity and trafficking by its association with cholesterolâ€rich lipid rafts. Journal of Neurochemistry, 2014, 128, 725-740.	3.9	25
4	Overexpression of Pyruvate Dehydrogenase Kinase 1 and Lactate Dehydrogenase A in Nerve Cells Confers Resistance to Amyloid Î² and Other Toxins by Decreasing Mitochondrial Respiration and Reactive Oxygen Species Production. Journal of Biological Chemistry, 2012, 287, 37245-37258.	3.4	95
5	Amyloid-beta oligomers increase the localization of prion protein at the cell surface. Journal of Neurochemistry, 2011, 117, 538-553.	3.9	60
6	A Tribute to Dr. Anne Martin-Matthews: CIHR Institute of Aging Scientific Director, 2004â€“2011. Canadian Journal on Aging, 2011, 30, 299-300.	1.1	0
7	Role of Î±7 Nicotinic Acetylcholine Receptor in Calcium Signaling Induced by Prion Protein Interaction with Stress-inducible Protein 1. Journal of Biological Chemistry, 2010, 285, 36542-36550.	3.4	92
8	Rapid, transient effects of the protein kinase C activator phorbol 12-myristate 13-acetate on activity and trafficking of the rat high-affinity choline transporter. Neuroscience, 2010, 167, 765-773.	2.3	21
9	Assessing the Severity of Perinatal Hypoxia-Ischemia in Piglets Using Near-Infrared Spectroscopy to Measure the Cerebral Metabolic Rate of Oxygen. Pediatric Research, 2009, 65, 301-306.	2.3	17
10	The Vesicular Acetylcholine Transporter Is Required for Neuromuscular Development and Function. Molecular and Cellular Biology, 2009, 29, 5238-5250.	2.3	105
11	Identification of a Novel Zn2+-binding Domain in the Autosomal Recessive Juvenile Parkinson-related E3 Ligase Parkin. Journal of Biological Chemistry, 2009, 284, 14978-14986.	3.4	113
12	Oligomeric aggregates of amyloid Î² peptide 1â€“42 activate ERK/MAPK in SH-SY5Y cells via the Î±7 nicotinic receptor. Neurochemistry International, 2009, 55, 796-801.	3.8	47
13	High field 1H MRS of the hippocampus after donepezil treatment in Alzheimer disease. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2008, 32, 786-793.	4.8	43
14	Activity and Subcellular Trafficking of the Sodium-Coupled Choline Transporter CHT Is Regulated Acutely by Peroxynitrite. Molecular Pharmacology, 2008, 73, 801-812.	2.3	15
15	82-kDa choline acetyltransferase is in nuclei of cholinergic neurons in human CNS and altered in aging and Alzheimer disease. Neurobiology of Aging, 2007, 28, 1028-1040.	3.1	39
16	Substrate Binding and Catalytic Mechanism of Human Choline Acetyltransferaseâ€,â€¡. Biochemistry, 2006, 45, 14621-14631.	2.5	47
17	The "ins" and "outs" of the high-affinity choline transporter CHT1. Journal of Neurochemistry, 2006, 97, 1-12.	3.9	77
18	Exposure of nuclear antigens in formalin-fixed, paraffin-embedded necropsy human spinal cord tissue: Detection of NeuN. Journal of Neuroscience Methods, 2005, 148, 26-35.	2.5	26

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19	Constitutive high-affinity choline transporter endocytosis is determined by a carboxyl-terminal tail dileucine motif. Journal of Neurochemistry, 2005, 94, 86-96.	3.9	66
20	A model for dynamic regulation of choline acetyltransferase by phosphorylation. Journal of Neurochemistry, 2005, 95, 305-313.	3.9	38
21	Surface-entropy reduction used in the crystallization of human choline acetyltransferase. Acta Crystallographica Section D: Biological Crystallography, 2005, 61, 1306-1310.	2.5	12
22	Two methods for large-scale purification of recombinant human choline acetyltransferase. Protein Expression and Purification, 2005, 40, 107-117.	1.3	8
23	Protein Kinase C Isoforms Differentially Phosphorylate Human Choline Acetyltransferase Regulating Its Catalytic Activity. Journal of Biological Chemistry, 2004, 279, 52059-52068.	3.4	23
24	Functional regulation of choline acetyltransferase by phosphorylation. Neurochemical Research, 2003, 28, 537-542.	3.3	29
25	Phosphorylation of 69-kDa Choline Acetyltransferase at Threonine 456 in Response to Amyloid-Î² Peptide 1â€“42. Journal of Biological Chemistry, 2003, 278, 5883-5893.	3.4	31
26	The hemicholinium-3 sensitive high affinity choline transporter is internalized by clathrin-mediated endocytosis and is present in endosomes and synaptic vesicles. Journal of Neurochemistry, 2003, 87, 136-146.	3.9	67
27	Identification of a Novel Nuclear Localization Signal Common to 69- and 82-kDa Human Choline Acetyltransferase. Journal of Biological Chemistry, 2003, 278, 20217-20224.	3.4	25
28	PC12nnr5 cells expressing TrkA receptors undergo morphological but not cholinergic phenotypic differentiation in response to nerve growth factor. Journal of Neurochemistry, 2002, 80, 501-511.	3.9	19
29	Inhibitors of nitric oxide synthase attenuate nerve growth factor-mediated increases in choline acetyltransferase expression in PC12 cells. Journal of Neurochemistry, 2002, 81, 624-635.	3.9	21
30	Î²-Arrestins regulate a Ral-GDSâ€“Ral effector pathway that mediates cytoskeletal reorganization. Nature Cell Biology, 2002, 4, 547-555.	10.3	129
31	Functional Characterization of Phosphorylation of 69-kDa Human Choline Acetyltransferase at Serine 440 by Protein Kinase C. Journal of Biological Chemistry, 2001, 276, 22244-22250.	3.4	37
32	Expression, purification and characterization of recombinant human choline acetyltransferase: phosphorylation of the enzyme regulates catalytic activity. Biochemical Journal, 2000, 349, 141.	3.7	33
33	Absence of p75NTR expression reduces nerve growth factor immunolocalization in cholinergic septal neurons. Journal of Comparative Neurology, 2000, 427, 54-66.	1.6	9
34	Nuclear Localization of the 82-kDa Form of Human Choline Acetyltransferase. Journal of Biological Chemistry, 1999, 274, 19417-19421.	3.4	42
35	Optimization of serum-free culture conditions for growth of embryonic rat cholinergic basal forebrain neurons. Journal of Neuroscience Methods, 1998, 84, 69-76.	2.5	13
36	NGF-induction of the expression of ChAT mRNA in PC12 cells and primary cultures of embryonic rat basal forebrain. Molecular Brain Research, 1998, 62, 25-34.	2.3	34

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37	A new twist in an old story: The role for crosstalk of neuronal and trophic activity. Neurochemistry International, 1997, 31, 659-676.	3.8	25
38	Inhibitors of serine/threonine phosphatases increase membrane-bound choline acetyltransferase activity and enhance acetylcholine synthesis. Brain Research, 1997, 751, 232-238.	2.2	21
39	Identification and partial characterization of the high-affinity choline carrier from rat brain striatum. Molecular Brain Research, 1996, 35, 354-358.	2.3	5
40	Effect of cellular differentiation on nucleoside transport in human neuroblastoma cells. Brain Research, 1994, 660, 104-112.	2.2	16
41	Role of neurotrophins in cholinergic-neurone function in the adult and aged CNS. Trends in Neurosciences, 1994, 17, 486-490.	8.6	117
42	Modulation of high-affinity choline carrier activity following incubation of rat hippocampal synaptosomes with hemicholinium-3. Brain Research, 1993, 626, 184-189.	2.2	6
43	Phosphorylation of Rat Brain Choline Acetyltransferase and Its Relationship to Enzyme Activity. Journal of Neurochemistry, 1993, 61, 1774-1781.	3.9	43
44	Basal synthesis of acetylcholine in hippocampal synaptosomes is not dependent upon membrane-bound choline acetyltransferase activity. Neuroscience, 1993, 54, 649-656.	2.3	17
45	Exogenous Nerve Growth Factor Increases the Activity of High-Affinity Choline Uptake and Choline Acetyltransferase in Brain of Fisher 344 Male Rats. Journal of Neurochemistry, 1990, 55, 1042-1049.	3.9	92
46	Solubilization and partial characterization of [3H]choline mustard-labeled high-affinity choline carrier from presynaptic plasma membrane ofTorpedo electric organ. Journal of Molecular Neuroscience, 1990, 2, 85-90.	2.3	4
47	Cholinergic but not GABAergic neuronal markers are decreased in primary neuronal cultures treated with choline mustard. Brain Research, 1990, 519, 209-216.	2.2	5
48	Kinetic Data on the Inhibition of High-affinity Choline Transport into Rat Forebrain Synaptosomes by Choline-like Compounds and Nitrogen Mustard Analogues. Journal of Neurochemistry, 1980, 34, 713-719.	3.9	93
49	Carrier-mediated inhibition of choline acetyltransferase. Life Sciences, 1980, 26, 909-914.	4.3	20
50	THE INTERACTIONS OF CHOLINE MUSTARD AZIRIDINIUM ION WITH CHOLINE ACETYLTRANSFERASE (EC) Tj ETQq0 0 0 rgBT /Overlock 1	3.9	36
51	Effects of acetylcholine mustard aziridinium ion and its choline analogue on choline transport into synaptosomes. Canadian Journal of Physiology and Pharmacology, 1977, 55, 769-772.	1.4	19