

Rebecca Jane Rylett

List of Publications by Year in descending order

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51
papers

1,996
citations

218677

26
h-index

243625

44
g-index

51
all docs

51
docs citations

51
times ranked

2327
citing authors

#	ARTICLE	IF	CITATIONS
1	β -Arrestins regulate a Ral-GDS-Ral effector pathway that mediates cytoskeletal reorganization. <i>Nature Cell Biology</i> , 2002, 4, 547-555.	10.3	129
2	Role of neurotrophins in cholinergic-neurone function in the adult and aged CNS. <i>Trends in Neurosciences</i> , 1994, 17, 486-490.	8.6	117
3	Identification of a Novel Zn ²⁺ -binding Domain in the Autosomal Recessive Juvenile Parkinson-related E3 Ligase Parkin. <i>Journal of Biological Chemistry</i> , 2009, 284, 14978-14986.	3.4	113
4	The Vesicular Acetylcholine Transporter Is Required for Neuromuscular Development and Function. <i>Molecular and Cellular Biology</i> , 2009, 29, 5238-5250.	2.3	105
5	Overexpression of Pyruvate Dehydrogenase Kinase 1 and Lactate Dehydrogenase A in Nerve Cells Confers Resistance to Amyloid β and Other Toxins by Decreasing Mitochondrial Respiration and Reactive Oxygen Species Production. <i>Journal of Biological Chemistry</i> , 2012, 287, 37245-37258.	3.4	95
6	Kinetic Data on the Inhibition of High-affinity Choline Transport into Rat Forebrain Synaptosomes by Choline-like Compounds and Nitrogen Mustard Analogues. <i>Journal of Neurochemistry</i> , 1980, 34, 713-719.	3.9	93
7	Exogenous Nerve Growth Factor Increases the Activity of High-Affinity Choline Uptake and Choline Acetyltransferase in Brain of Fisher 344 Male Rats. <i>Journal of Neurochemistry</i> , 1990, 55, 1042-1049.	3.9	92
8	Role of β 7 Nicotinic Acetylcholine Receptor in Calcium Signaling Induced by Prion Protein Interaction with Stress-inducible Protein 1. <i>Journal of Biological Chemistry</i> , 2010, 285, 36542-36550.	3.4	92
9	The "ins" and "outs" of the high-affinity choline transporter CHT1. <i>Journal of Neurochemistry</i> , 2006, 97, 1-12.	3.9	77
10	The hemicholinium-3 sensitive high affinity choline transporter is internalized by clathrin-mediated endocytosis and is present in endosomes and synaptic vesicles. <i>Journal of Neurochemistry</i> , 2003, 87, 136-146.	3.9	67
11	Constitutive high-affinity choline transporter endocytosis is determined by a carboxyl-terminal tail dileucine motif. <i>Journal of Neurochemistry</i> , 2005, 94, 86-96.	3.9	66
12	Amyloid-beta oligomers increase the localization of prion protein at the cell surface. <i>Journal of Neurochemistry</i> , 2011, 117, 538-553.	3.9	60
13	Substrate Binding and Catalytic Mechanism of Human Choline Acetyltransferase. <i>Biochemistry</i> , 2006, 45, 14621-14631.	2.5	47
14	Oligomeric aggregates of amyloid β peptide 1-42 activate ERK/MAPK in SH-SY5Y cells via the β 7 nicotinic receptor. <i>Neurochemistry International</i> , 2009, 55, 796-801.	3.8	47
15	Phosphorylation of Rat Brain Choline Acetyltransferase and Its Relationship to Enzyme Activity. <i>Journal of Neurochemistry</i> , 1993, 61, 1774-1781.	3.9	43
16	High field 1H MRS of the hippocampus after donepezil treatment in Alzheimer disease. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2008, 32, 786-793.	4.8	43
17	Nuclear Localization of the 82-kDa Form of Human Choline Acetyltransferase. <i>Journal of Biological Chemistry</i> , 1999, 274, 19417-19421.	3.4	42
18	82-kDa choline acetyltransferase is in nuclei of cholinergic neurons in human CNS and altered in aging and Alzheimer disease. <i>Neurobiology of Aging</i> , 2007, 28, 1028-1040.	3.1	39

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19	A model for dynamic regulation of choline acetyltransferase by phosphorylation. <i>Journal of Neurochemistry</i> , 2005, 95, 305-313.	3.9	38
20	Functional Characterization of Phosphorylation of 69-kDa Human Choline Acetyltransferase at Serine 440 by Protein Kinase C. <i>Journal of Biological Chemistry</i> , 2001, 276, 22244-22250.	3.4	37
21	THE INTERACTIONS OF CHOLINE MUSTARD AZIRIDIUM ION WITH CHOLINE ACETYLTRANSFERASE (EC Tj ETQq1_1_0.784314 rgBT /00	3.9	36
22	NGF-induction of the expression of ChAT mRNA in PC12 cells and primary cultures of embryonic rat basal forebrain. <i>Molecular Brain Research</i> , 1998, 62, 25-34.	2.3	34
23	Expression, purification and characterization of recombinant human choline acetyltransferase: phosphorylation of the enzyme regulates catalytic activity. <i>Biochemical Journal</i> , 2000, 349, 141.	3.7	33
24	Phosphorylation of 69-kDa Choline Acetyltransferase at Threonine 456 in Response to Amyloid- β Peptide 1-42. <i>Journal of Biological Chemistry</i> , 2003, 278, 5883-5893.	3.4	31
25	Functional regulation of choline acetyltransferase by phosphorylation. <i>Neurochemical Research</i> , 2003, 28, 537-542.	3.3	29
26	Exposure of nuclear antigens in formalin-fixed, paraffin-embedded necropsy human spinal cord tissue: Detection of NeuN. <i>Journal of Neuroscience Methods</i> , 2005, 148, 26-35.	2.5	26
27	A new twist in an old story: The role for crosstalk of neuronal and trophic activity. <i>Neurochemistry International</i> , 1997, 31, 659-676.	3.8	25
28	Identification of a Novel Nuclear Localization Signal Common to 69- and 82-kDa Human Choline Acetyltransferase. <i>Journal of Biological Chemistry</i> , 2003, 278, 20217-20224.	3.4	25
29	Regulation of the high-affinity choline transporter activity and trafficking by its association with cholesterol-rich lipid rafts. <i>Journal of Neurochemistry</i> , 2014, 128, 725-740.	3.9	25
30	Protein Kinase C Isoforms Differentially Phosphorylate Human Choline Acetyltransferase Regulating Its Catalytic Activity. <i>Journal of Biological Chemistry</i> , 2004, 279, 52059-52068.	3.4	23
31	Inhibitors of serine/threonine phosphatases increase membrane-bound choline acetyltransferase activity and enhance acetylcholine synthesis. <i>Brain Research</i> , 1997, 751, 232-238.	2.2	21
32	Inhibitors of nitric oxide synthase attenuate nerve growth factor-mediated increases in choline acetyltransferase expression in PC12 cells. <i>Journal of Neurochemistry</i> , 2002, 81, 624-635.	3.9	21
33	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. <i>Neuroscience</i> , 2010, 167, 765-773.	2.3	21
34	Carrier-mediated inhibition of choline acetyltransferase. <i>Life Sciences</i> , 1980, 26, 909-914.	4.3	20
35	Effects of acetylcholine mustard aziridinium ion and its choline analogue on choline transport into synaptosomes. <i>Canadian Journal of Physiology and Pharmacology</i> , 1977, 55, 769-772.	1.4	19
36	PC12nr5 cells expressing TrkA receptors undergo morphological but not cholinergic phenotypic differentiation in response to nerve growth factor. <i>Journal of Neurochemistry</i> , 2002, 80, 501-511.	3.9	19

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37	Basal synthesis of acetylcholine in hippocampal synaptosomes is not dependent upon membrane-bound choline acetyltransferase activity. <i>Neuroscience</i> , 1993, 54, 649-656.	2.3	17
38	Assessing the Severity of Perinatal Hypoxia-Ischemia in Piglets Using Near-Infrared Spectroscopy to Measure the Cerebral Metabolic Rate of Oxygen. <i>Pediatric Research</i> , 2009, 65, 301-306.	2.3	17
39	Effect of cellular differentiation on nucleoside transport in human neuroblastoma cells. <i>Brain Research</i> , 1994, 660, 104-112.	2.2	16
40	Activity and Subcellular Trafficking of the Sodium-Coupled Choline Transporter CHT Is Regulated Acutely by Peroxynitrite. <i>Molecular Pharmacology</i> , 2008, 73, 801-812.	2.3	15
41	Optimization of serum-free culture conditions for growth of embryonic rat cholinergic basal forebrain neurons. <i>Journal of Neuroscience Methods</i> , 1998, 84, 69-76.	2.5	13
42	Surface-entropy reduction used in the crystallization of human choline acetyltransferase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 1306-1310.	2.5	12
43	Attenuation of Oxidative Stress in HEK 293 Cells by the TCM Constituents Schisanhenol, Baicalein, Resveratrol or Crocetin and Two Defined Mixtures. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2015, 18, 661.	2.1	10
44	Absence of p75NTR expression reduces nerve growth factor immunolocalization in cholinergic septal neurons. <i>Journal of Comparative Neurology</i> , 2000, 427, 54-66.	1.6	9
45	Differential regulation of the high-affinity choline transporter by wild-type and Swedish mutant amyloid precursor protein. <i>Journal of Neurochemistry</i> , 2015, 134, 769-782.	3.9	9
46	Two methods for large-scale purification of recombinant human choline acetyltransferase. <i>Protein Expression and Purification</i> , 2005, 40, 107-117.	1.3	8
47	Modulation of high-affinity choline carrier activity following incubation of rat hippocampal synaptosomes with hemicholinium-3. <i>Brain Research</i> , 1993, 626, 184-189.	2.2	6
48	Cholinergic but not GABAergic neuronal markers are decreased in primary neuronal cultures treated with choline mustard. <i>Brain Research</i> , 1990, 519, 209-216.	2.2	5
49	Identification and partial characterization of the high-affinity choline carrier from rat brain striatum. <i>Molecular Brain Research</i> , 1996, 35, 354-358.	2.3	5
50	Solubilization and partial characterization of [3H]choline mustard-labeled high-affinity choline carrier from presynaptic plasma membrane of Torpedo electric organ. <i>Journal of Molecular Neuroscience</i> , 1990, 2, 85-90.	2.3	4
51	A Tribute to Dr. Anne Martin-Matthews: CIHR Institute of Aging Scientific Director, 2004-2011. <i>Canadian Journal on Aging</i> , 2011, 30, 299-300.	1.1	0