

Alexander G Mclellan

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6251143/publications.pdf>

Version: 2024-02-01

62
papers

1,732
citations

257357

24
h-index

315616

38
g-index

62
all docs

62
docs citations

62
times ranked

1257
citing authors

#	ARTICLE	IF	CITATIONS
1	Dinucleoside polyphosphates—friend or foe?. , 2000, 87, 73-89.		176
2	The Diadenosine Hexaphosphate Hydrolases from <i>Schizosaccharomyces pombe</i> and <i>Saccharomyces cerevisiae</i> Are Homologues of the Human Diphosphoinositol Polyphosphate Phosphohydrolase. <i>Journal of Biological Chemistry</i> , 1999, 274, 21735-21740.	1.6	125
3	The <i>lalA</i> Invasin Gene of <i>Bartonella bacilliformis</i> Encodes a (Di)Nucleoside Polyphosphate Hydrolase of the MutT Motif Family and Has Homologs in Other Invasive Bacteria. <i>Biochemical and Biophysical Research Communications</i> , 1999, 256, 474-479.	1.0	76
4	The <i>Saccharomyces cerevisiae</i> PCD1 Gene Encodes a Peroxisomal Nudix Hydrolase Active toward Coenzyme A and Its Derivatives. <i>Journal of Biological Chemistry</i> , 2000, 275, 32925-32930.	1.6	72
5	Mammalian NADH diphosphatases of the Nudix family: cloning and characterization of the human peroxisomal NUDT12 protein. <i>Biochemical Journal</i> , 2003, 374, 329-335.	1.7	71
6	Regulation of Dinucleoside Polyphosphate Pools by the YgdP and ApaH Hydrolases Is Essential for the Ability of <i>Salmonella enterica</i> serovar Typhimurium to Invade Cultured Mammalian Cells. <i>Journal of Biological Chemistry</i> , 2003, 278, 32602-32607.	1.6	70
7	The <i>Saccharomyces cerevisiae</i> YOR163w Gene Encodes a Diadenosine 5'-P ₁ , P ₆ -Hexaphosphate (Ap ₆ A) Hydrolase Member of the MutT Motif (Nudix Hydrolase) Family. <i>Journal of Biological Chemistry</i> , 1999, 274, 8604-8610.	1.6	58
8	Substrate ambiguity among the nudix hydrolases: biologically significant, evolutionary remnant, or both?. <i>Cellular and Molecular Life Sciences</i> , 2013, 70, 373-385.	2.4	58
9	The Crystal Structure of Diadenosine Tetraphosphate Hydrolase from <i>Caenorhabditis elegans</i> in Free and Binary Complex Forms. <i>Structure</i> , 2002, 10, 589-600.	1.6	57
10	Nudix Hydrolases That Degrade Dinucleoside and Diphosphoinositol Polyphosphates Also Have 5-Phosphoribosyl 1-Pyrophosphate (PRPP) Pyrophosphatase Activity That Generates the Glycolytic Activator Ribose 1,5-Bisphosphate. <i>Journal of Biological Chemistry</i> , 2002, 277, 47313-47317.	1.6	56
11	Cloning, expression and characterization of YSA1H, a human adenosine 5'-diphosphosugar pyrophosphatase possessing a MutT motif. <i>Biochemical Journal</i> , 1999, 344, 331-337.	1.7	54
12	Recognition of .beta..beta.'-substituted and .alpha..beta.,.alpha.'.beta.'-disubstituted phosphonate analogs of bis(5'-adenosyl) tetraphosphate by the bis(5'-nucleosidyl)-tetraphosphate pyrophosphohydrolases from <i>Artemia</i> embryos and <i>Escherichia coli</i> . <i>Biochemistry</i> , 1989, 28, 3868-3875.	1.2	47
13	Diadenosine 5',5'-P ₁ , P ₄ in developing embryos of <i>Artemia</i> . <i>Nucleic Acids Research</i> , 1984, 12, 1609-1619.	6.5	43
14	Ap ₄ A induces apoptosis in human cultured cells. <i>FEBS Letters</i> , 1999, 456, 175-180.	1.3	41
15	Cloning, expression and characterisation of a human Nudix hydrolase specific for adenosine 5'-diphosphoribose (ADP-ribose). <i>BBA - Proteins and Proteomics</i> , 2002, 1594, 127-135.	2.1	40
16	Adenine dinucleotide-mediated cytosolic free Ca ²⁺ oscillations in single hepatocytes. <i>FEBS Letters</i> , 1993, 322, 197-200.	1.3	39
17	The g5R (D250) Gene of African Swine Fever Virus Encodes a Nudix Hydrolase That Preferentially Degrades Diphosphoinositol Polyphosphates. <i>Journal of Virology</i> , 2002, 76, 1415-1421.	1.5	39
18	Cloning and characterisation of hAps1 and hAps2, human diadenosine polyphosphate-metabolising Nudix hydrolases. <i>BMC Biochemistry</i> , 2002, 3, 20.	4.4	39

#	ARTICLE	IF	CITATIONS
19	Recent progress in the study of the intracellular functions of diadenosine polyphosphates. <i>Drug Development Research</i> , 2001, 52, 249-259.	1.4	34
20	Cloning, characterisation and crystallisation of a diadenosine 5â€™-P ₁ ,P ₄ -tetraphosphate pyrophosphohydrolase from <i>Caenorhabditis elegans</i> . <i>BBA - Proteins and Proteomics</i> , 2001, 1550, 27-36.	2.1	32
21	The complex enzymology of mRNA decapping: Enzymes of four classes cleave pyrophosphate bonds. <i>Wiley Interdisciplinary Reviews RNA</i> , 2019, 10, e1511.	3.2	31
22	Characterization of the HeLa Cell DNA Polymerase .alpha.-Associated Ap4A Binding Protein by Photoaffinity Labeling. <i>Biochemistry</i> , 1994, 33, 14601-14607.	1.2	28
23	Synthesis and applications of 8-azido photoaffinity analogs of P ₁ ,P ₃ -bis(5â€™-adenosyl)triphosphate and P ₁ ,P ₄ -bis(5â€™-adenosyl)tetraphosphate. <i>Analytical Biochemistry</i> , 1990, 184, 330-337.	1.1	27
24	Structure and Substrate-binding Mechanism of Human Ap4A Hydrolase. <i>Journal of Biological Chemistry</i> , 2005, 280, 8471-8481.	1.6	27
25	NUDT2 Disruption Elevates Diadenosine Tetraphosphate (Ap4A) and Down-Regulates Immune Response and Cancer Promotion Genes. <i>PLoS ONE</i> , 2016, 11, e0154674.	1.1	27
26	Diadenosine polyphosphate-stimulated gluconeogenesis in isolated rat proximal tubules. <i>Biochemical Journal</i> , 1997, 323, 451-456.	1.7	24
27	The hydrolytic activity of bovine adrenal medullary plasma membranes towards diadenosine polyphosphates is due to alkaline phosphodiesterase-I. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1405, 121-127.	1.9	24
28	Characterization of the binding of diadenosine 5â€™-P ₁ ,P ₄ -tetraphosphate (Ap4A) to rat liver cell membranes. <i>Biochemical Journal</i> , 1996, 314, 687-693.	1.7	23
29	Cloning, expression and characterization of YSA1H, a human adenosine 5â€™-diphosphosugar pyrophosphatase possessing a MutT motif. <i>Biochemical Journal</i> , 1999, 344, 331.	1.7	23
30	Characterization of a nudix hydrolase from <i>Deinococcus radiodurans</i> with a marked specificity for (deoxy)ribonucleoside 5'-diphosphates. <i>BMC Biochemistry</i> , 2004, 5, 7.	4.4	23
31	Correlation of intracellular diadenosine triphosphate (Ap3A) with apoptosis in Fhit-positive HEK293 cells. <i>Cancer Letters</i> , 2008, 259, 186-191.	3.2	23
32	Re-evaluation of Diadenosine Tetraphosphate (Ap4A) From a Stress Metabolite to Bona Fide Secondary Messenger. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 606807.	1.6	23
33	Mouse Nudt13 is a Mitochondrial Nudix Hydrolase with NAD(P)H Pyrophosphohydrolase Activity. <i>Protein Journal</i> , 2017, 36, 425-432.	0.7	21
34	Adenine dinucleotide-mediated activation of glycogen phosphorylase in isolated liver cells. <i>Cellular Signalling</i> , 1993, 5, 89-96.	1.7	20
35	Neutrophil apoptosis is delayed by the diadenosine polyphosphates, Ap 5 A and Ap 6 A: synergism with granulocyteâ€‘macrophage colonyâ€‘stimulating factor. <i>British Journal of Haematology</i> , 1996, 95, 637-639.	1.2	18
36	Decapitation: poxvirus makes RNA lose its head. <i>Trends in Biochemical Sciences</i> , 2007, 32, 297-299.	3.7	18

#	ARTICLE	IF	CITATIONS
37	Analysis of the Catalytic and Binding Residues of the Diadenosine Tetraphosphate Pyrophosphohydrolase from <i>Caenorhabditis elegans</i> by Site-directed Mutagenesis. <i>Journal of Biological Chemistry</i> , 2003, 278, 4435-4439.	1.6	16
38	Diadenosine 5'-P ₁ P ₄ -tetraphosphate (Ap ₄ A) is synthesized in response to DNA damage and inhibits the initiation of DNA replication. <i>DNA Repair</i> , 2015, 33, 90-100.	1.3	15
39	The Human NUDT Family of Nucleotide Hydrolases. , 2000, 486, 115-118.		14
40	Adenosine-5'-O-phosphorylated and adenosine-5'-O-phosphorothioylated polyols as strong inhibitors of (symmetrical) and (asymmetrical) dinucleoside tetraphosphatases. <i>Biochemical Journal</i> , 2003, 373, 635-640.	1.7	11
41	Oxidation of the diphosphoinositol polyphosphate phosphohydrolase-like Nudix hydrolase Aps from <i>Drosophila melanogaster</i> induces thermolability—A possible regulatory switch?. <i>International Journal of Biochemistry and Cell Biology</i> , 2010, 42, 1174-1181.	1.2	9
42	DNA Polymerases α and γ during Pre-emergence and Early Larval Development of <i>Artemia</i> . <i>FEBS Journal</i> , 1982, 129, 415-421.	0.2	8
43	Characterization of the Mn ²⁺ -stimulated (di)adenosine polyphosphate hydrolase encoded by the <i>Deinococcus radiodurans</i> DR2356 nudix gene. <i>Archives of Microbiology</i> , 2006, 186, 415-424.	1.0	8
44	Ametabolic embryos of <i>Artemia franciscana</i> accumulate DNA damage during prolonged anoxia. <i>Journal of Experimental Biology</i> , 2009, 212, 785-789.	0.8	7
45	Chromosomal Localization of the Human Diadenosine 5'-P ₁ P ₄ -Tetraphosphate Pyrophosphohydrolase (Ap ₄ A Hydrolase) Gene (APAH1) to 9p13. <i>Genomics</i> , 1998, 47, 307-309.	1.3	6
46	Characterisation of a bis(5'-nucleosyl)-tetraphosphate (asymmetrical) from <i>Drosophila melanogaster</i> . <i>International Journal of Biochemistry and Cell Biology</i> , 2007, 39, 943-954.	1.2	5
47	The major P ₁ P ₄ -bis-(5'-adenosyl)-tetraphosphate-binding protein in <i>Artemia</i> is a protein kinase. <i>Biochemical Society Transactions</i> , 1985, 13, 753-754.	1.6	4
48	The bis(adenosin-N ₆ -yl)alkanes, a family of potential dinucleoside-polyphosphate analogue precursors. Cytotoxicity, adenosine-receptor binding and metabolism. <i>FEBS Journal</i> , 1993, 214, 935-944.	0.2	3
49	The cyanobacterium <i>Anabaena flos-aquae</i> possesses diadenosine 5'-P ₁ P ₄ -tetraphosphate (Ap ₄ A) phosphorylase activity. <i>Biochemical Society Transactions</i> , 1996, 24, 417S-417S.	1.6	3
50	Molecular cloning of diadenosine 5'-P ₁ P ₄ -tetraphosphate pyrophosphohydrolase (Ap ₄ A) Tj ETQqO 0 0 rgBT /C <i>Biochemical Society Transactions</i> , 1996, 24, 418S-418S.	1.6	3
51	Uracil-DNA glycosylase in developing embryos of the brine shrimp (<i>Artemia salina</i>). <i>Biochemical Society Transactions</i> , 1980, 8, 730-731.	1.6	2
52	Properties of the diadenosine tetraphosphate nucleoside analogue, bis(N ₆ -adenosyl)dodecane, and its possible use in the treatment of disorders of purine metabolism. <i>Biochemical Society Transactions</i> , 1991, 19, 123S-123S.	1.6	2
53	Regulation of neutrophil apoptosis by diadenosine pentaphosphate and GM-CSF. <i>Biochemical Society Transactions</i> , 1996, 24, 491S-491S.	1.6	2
54	Diadenosine Polyphosphate-Mediated Activation of Phospholipase D in Isolated Rat Liver Cells. <i>Cellular Signalling</i> , 1998, 10, 505-509.	1.7	2

#	ARTICLE	IF	CITATIONS
55	Excision repair of u.v.-light-induced DNA damage in the wild carrot (<i>Daucus carota</i>). <i>Biochemical Society Transactions</i> , 1983, 11, 368-369.	1.6	1
56	Enzymes of diadenosine tetraphosphate (Ap ₄ A) catabolism in the green alga <i>Scenedesmus obliquus</i> . <i>Biochemical Society Transactions</i> , 1994, 22, 231S-231S.	1.6	1
57	Human diadenosine 5',5'-P ₁ ,P ₄ -tetraphosphate pyrophosphohydrolase (Ap ₄ A hydrolase) possesses a MutT motif. <i>Biochemical Society Transactions</i> , 1996, 24, 209S-209S.	1.6	1
58	GTP:GTP guanylyltransferase activity from encysted embryos of the brine shrimp <i>Artemia</i> is associated with a single 110 kDa polypeptide. <i>Biochemical Society Transactions</i> , 1996, 24, 419S-419S.	1.6	1
59	Folate Synthesis: An Old Enzyme Identified. <i>Structure</i> , 2007, 15, 891-892.	1.6	1
60	The heterogeneity of DNA polymerase- β from mouse embryos and embryonal carcinoma cells. <i>Biochemical Society Transactions</i> , 1982, 10, 348-348.	1.6	0
61	Enhanced re-activation of u.v.-light-irradiated adenovirus 2 in HeLa cells after heat shock. <i>Biochemical Society Transactions</i> , 1983, 11, 369-370.	1.6	0
62	The bis(adenosin-N ₆ -yl) alkanes, a family of potential dinucleoside polyphosphate analogue precursors. Mechanism of growth inhibition and suppression of adenosine toxicity in lymphoid cells. <i>FEBS Journal</i> , 1993, 215, 465-471.	0.2	0