James D Young

List of Publications by Year in descending order

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93	9,430	53794 45	43889 91
papers	citations	h-index	g-index

94	94	94	7279
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	HPLC reveals novel features of nucleoside and nucleobase homeostasis, nucleoside metabolism and nucleoside transport. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183247.	2.6	10
2	The Purinome and the preBÃ¶tzinger Complex â€“ A MÃ©nage of Unexplored Mechanisms That May Modulate/Shape the Hypoxic Ventilatory Response. Frontiers in Cellular Neuroscience, 2019, 13, 365.	3.7	8
3	In vitro inhibition of human nucleoside transporters and uptake of azacitidine by an isocitrate dehydrogenase-2 inhibitor enasidenib and its metabolite AGI-16903. Xenobiotica, 2019, 49, 1229-1236.	1.1	1
4	Role of cysteine 416 in N-ethylmaleimide sensitivity of human equilibrative nucleoside transporter 1 (hENT1). Biochemical Journal, 2018, 475, 3293-3309.	3.7	6
5	Inward- and outward-facing homology modeling of human concentrative nucleoside transporter 3 (hCNT3) predicts an elevator-type transport mechanism. Channels, 2018, 12, 291-298.	2.8	5
6	SLC28 and SLC29. , 2018, , 5002-5010.		0
7	Substituted cysteine accessibility method (SCAM) analysis of the transport domain of human concentrative nucleoside transporter 3 (hCNT3) and other family members reveals features of structural and functional importance. Journal of Biological Chemistry, 2017, 292, 9505-9522.	3.4	14
8	SLC28 and SLC29. , 2017, , 1-9.		0
9	The SLC28 (CNT) and SLC29 (ENT) nucleoside transporter families: a 30-year collaborative odyssey. Biochemical Society Transactions, 2016, 44, 869-876.	3.4	83
10	A Versatile Strategy for Production of Membrane Proteins with Diverse Topologies: Application to Investigation of Bacterial Homologues of Human Divalent Metal Ion and Nucleoside Transporters. PLoS ONE, 2015, 10, e0143010.	2.5	12
11	Synthesis of Purine and 7â€Deazapurine Nucleoside Analogues of 6â€Nâ€(4â€Nitrobenzyl)adenosine; Inhibition of Nucleoside Transport and Proliferation of Cancer Cells. ChemMedChem, 2014, 9, 2186-2192.	3.2	11
12	The human concentrative and equilibrative nucleoside transporter families, SLC28 and SLC29. Molecular Aspects of Medicine, 2013, 34, 529-547.	6.4	285
13	Transport of A1Adenosine Receptor Agonist Tecadenoson by Human and Mouse Nucleoside Transporters: Evidence for Blood-Brain Barrier Transport by Murine Equilibrative Nucleoside Transporter 1 mENT1. Drug Metabolism and Disposition, 2013, 41, 916-922.	3.3	9
14	Nucleoside transporter gene expression in wild-type and mENT1 knockout miceThis paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting â€" Membrane Proteins in Health and Disease, and has undergone the Journalâ€™s usual peer review process.. Biochemistry and Cell Biology, 2011, 89, 236-245.	2.0	7
15	Behavioral effects of elevated expression of human equilibrative nucleoside transporter 1 in mice. Behavioural Brain Research, 2011, 224, 44-49.	2.2	14
16	Interaction of fused-pyrimidine nucleoside analogs with human concentrative nucleoside transporters: High-affinity inhibitors of human concentrative nucleoside transporter 1. Biochemical Pharmacology, 2011, 81, 82-90.	4.4	21
17	Influence of Sugar Ring Conformation on the Transportability of Nucleosides by Human Nucleoside Transporters. ChemBioChem, 2011, 12, 2774-2778.	2.6	13
18	Molecular Biology of Nucleoside Transporters and their Distributions and Functions in the Brain. Current Topics in Medicinal Chemistry, 2011, 11, 948-972.	2.1	158

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19	Nucleobase Transport by Human Equilibrative Nucleoside Transporter 1 (hENT1). Journal of Biological Chemistry, 2011, 286, 32552-32562.	3.4	102
20	Biodistribution and Uptake of 3â€²-Deoxy-3â€²-Fluorothymidine in ENT1-Knockout Mice and in an ENT1-Knockdown Tumor Model. Journal of Nuclear Medicine, 2010, 51, 1447-1455.	5.0	50
21	Improved Syntheses of 5â€²-S-(2-Aminoethyl)-6-N-(4-nitrobenzyl)-5â€²-thioadenosine (SAENTA), Analogues, and Fluorescent Probe Conjugates: Analysis of Cell-Surface Human Equilibrative Nucleoside Transporter 1 (hENT1) Levels for Prediction of the Antitumor Efficacy of Gemcitabine. Journal of Medicinal Chemistry, 2010, 53, 6040-6053.	6.4	30
22	Red Fluorescent Protein pH Biosensor to Detect Concentrative Nucleoside Transport. Journal of Biological Chemistry, 2009, 284, 20499-20511.	3.4	61
23	Conserved Glutamate Residues Glu-343 and Glu-519 Provide Mechanistic Insights into Cation/Nucleoside Cotransport by Human Concentrative Nucleoside Transporter hCNT3. Journal of Biological Chemistry, 2009, 284, 17266-17280.	3.4	15
24	Substituted Cysteine Accessibility Method Analysis of Human Concentrative Nucleoside Transporter hCNT3 Reveals a Novel Discontinuous Region of Functional Importance within the CNT Family Motif (G/A)XKX3NEFVA(Y/M/F). Journal of Biological Chemistry, 2009, 284, 17281-17292.	3.4	13
25	Transepithelial fluxes of adenosine and 2â€²-deoxyadenosine across human renal proximal tubule cells: roles of nucleoside transporters hENT1, hENT2, and hCNT3. American Journal of Physiology - Renal Physiology, 2009, 296, F1439-F1451.	2.7	27
26	Human Nucleoside Transporters: Biomarkers for Response to Nucleoside Drugs. Nucleosides, Nucleotides and Nucleic Acids, 2009, 28, 450-463.	1.1	29
27	Human Equilibrative Nucleoside Transporter 1 and Human Concentrative Nucleoside Transporter 3 Predict Survival after Adjuvant Gemcitabine Therapy in Resected Pancreatic Adenocarcinoma. Clinical Cancer Research, 2009, 15, 2913-2919.	7.0	188
28	Human concentrative nucleoside transporter 3 is a determinant of fludarabine transportability and cytotoxicity in human renal proximal tubule cell cultures. Cancer Chemotherapy and Pharmacology, 2009, 63, 289-301.	2.3	13
29	hGLUT9 as a novel urate transporter: its role in liver urate handling and functional study of SLC2A9 SNPs. FASEB Journal, 2009, 23, 797.4.	0.5	1
30	The Role of Human Nucleoside Transporters in Uptake of 3â€²-Deoxy-3â€²-fluorothymidine. Molecular Pharmacology, 2008, 74, 1372-1380.	2.3	61
31	A Conformationally Mobile Cysteine Residue (Cys-561) Modulates Na+ and H+ Activation of Human CNT3. Journal of Biological Chemistry, 2008, 283, 24922-24934.	3.4	17
32	A Proton-mediated Conformational Shift Identifies a Mobile Pore-lining Cysteine Residue (Cys-561) in Human Concentrative Nucleoside Transporter 3. Journal of Biological Chemistry, 2008, 283, 8496-8507.	3.4	16
33	Residues 334 and 338 in Transmembrane Segment 8 of Human Equilibrative Nucleoside Transporter 1 Are Important Determinants of Inhibitor Sensitivity, Protein Folding, and Catalytic Turnover. Journal of Biological Chemistry, 2007, 282, 14148-14157.	3.4	40
34	Conserved Glutamate Residues Are Critically Involved in Na+/Nucleoside Cotransport by Human Concentrative Nucleoside Transporter 1 (hCNT1). Journal of Biological Chemistry, 2007, 282, 30607-30617.	3.4	19
35	Localization of broadly selective equilibrative and concentrative nucleoside transporters, hENT1 and hCNT3, in human kidney. American Journal of Physiology - Renal Physiology, 2007, 293, F200-F211.	2.7	52
36	Cation coupling properties of human concentrative nucleoside transporters hCNT1, hCNT2 and hCNT3. Molecular Membrane Biology, 2007, 24, 53-64.	2.0	38

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37	Specific Mutations in Transmembrane Helix 8 of Human Concentrative Na+/Nucleoside Cotransporter hCNT1 Affect Permeant Selectivity and Cation Couplingâ€. Biochemistry, 2007, 46, 1684-1693.	2.5	17
38	The role of nucleoside transporters in cancer chemotherapy with nucleoside drugs. Cancer and Metastasis Reviews, 2007, 26, 85-110.	5.9	202
39	Renal nucleoside transporters: physiological and clinical implicationsThis paper is one of a selection of papers published in this Special Issue, entitled CSBMCB â€" Membrane Proteins in Health and Disease.. Biochemistry and Cell Biology, 2006, 84, 844-858.	2.0	48
40	Nucleoside transporters: from scavengers to novel therapeutic targets. Trends in Pharmacological Sciences, 2006, 27, 416-425.	8.7	264
41	Cysteine-accessibility analysis of transmembrane domains 11â€“13 of human concentrative nucleoside transporter 3. Biochemical Journal, 2006, 394, 389-398.	3.7	23
42	Distribution and Functional Characterization of Equilibrative Nucleoside Transporter-4, a Novel Cardiac Adenosine Transporter Activated at Acidic pH. Circulation Research, 2006, 99, 510-519.	4.5	181
43	Characterization of the Transport Mechanism and Permeant Binding Profile of the Uridine Permease Fui1p of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2006, 281, 28210-28221.	3.4	13
44	Functional Characterization of Novel Human and Mouse Equilibrative Nucleoside Transporters (hENT3 and mENT3) Located in Intracellular Membranes. Journal of Biological Chemistry, 2005, 280, 15880-15887.	3.4	271
45	Residue 33 of Human Equilibrative Nucleoside Transporter 2 Is a Functionally Important Component of Both the Dipyridamole and Nucleoside Binding Sites. Molecular Pharmacology, 2005, 67, 1291-1298.	2.3	42
46	The Broadly Selective Human Na+/Nucleoside Cotransporter(hCNT3) Exhibits Novel Cation-coupled Nucleoside TransportCharacteristics. Journal of Biological Chemistry, 2005, 280, 25436-25449.	3.4	73
47	Identification and Mutational Analysis of Amino Acid Residues Involved in Dipyridamole Interactions with Human and Caenorhabditis elegans Equilibrative Nucleoside Transporters. Journal of Biological Chemistry, 2005, 280, 11025-11034.	3.4	33
48	Uridine Binding and Transportability Determinants of Human Concentrative Nucleoside Transporters. Molecular Pharmacology, 2005, 68, 830-839.	2.3	38
49	Transport of physiological nucleosides and anti-viral and anti-neoplastic nucleoside drugs by recombinantEscherichia colinucleoside-H+cotransporter (NupC) produced inXenopus laevisoocytes. Molecular Membrane Biology, 2004, 21, 1-10.	2.0	34
50	The Absence of Human Equilibrative Nucleoside Transporter 1 Is Associated with Reduced Survival in Patients With Gemcitabine-Treated Pancreas Adenocarcinoma. Clinical Cancer Research, 2004, 10, 6956-6961.	7.0	360
51	Electrophysiological characterization of a recombinant human Na+-coupled nucleoside transporter (hCNT1) produced inXenopusoocytes. Journal of Physiology, 2004, 558, 807-823.	2.9	84
52	Global Mapping of the Yeast Genetic Interaction Network. Science, 2004, 303, 808-813.	12.6	1,908
53	The equilibrative nucleoside transporter family, SLC29. Pflugers Archiv European Journal of Physiology, 2004, 447, 735-743.	2.8	594
54	Allelic isoforms of the H+/nucleoside co-transporter (CaCNT) fromCandida albicans reveal separate high- and low-affinity transport systems for nucleosides. Yeast, 2004, 21, 1269-1277.	1.7	5

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55	Uridine Recognition Motifs of Human Equilibrative Nucleoside Transporters 1 and 2 Produced in Saccharomyces cerevisiae. Nucleosides, Nucleotides and Nucleic Acids, 2004, 23, 361-373.	1.1	45
56	Functional characterization of a H+/nucleoside co-transporter (CaCNT) fromCandida albicans, a fungal member of the concentrative nucleoside transporter (CNT) family of membrane proteins. Yeast, 2003, 20, 661-675.	1.7	26
57	Nucleoside anticancer drugs: the role of nucleoside transporters in resistance to cancer chemotherapy. Oncogene, 2003, 22, 7524-7536.	5.9	267
58	Mutation of Residue 33 of Human Equilibrative Nucleoside Transporters 1 and 2 Alters Sensitivity to Inhibition of Transport by Dilazep and Dipyridamole. Journal of Biological Chemistry, 2002, 277, 395-401.	3.4	122
59	Functional and Molecular Characterization of Nucleobase Transport by Recombinant Human and Rat Equilibrative Nucleoside Transporters 1 and 2. Journal of Biological Chemistry, 2002, 277, 24938-24948.	3.4	157
60	The Role of Membrane Transporters in Cellular Resistance to Anticancer Nucleoside Drugs. Cancer Treatment and Research, 2002, 112, 27-47.	0.5	50
61	An ancient prevertebrate Na⁺-nucleoside cotransporter (hfCNT) from the Pacific hagfish (Eptatretus stouti). American Journal of Physiology - Cell Physiology, 2002, 283, C155-C168.	4.6	31
62	The ENT family of eukaryote nucleoside and nucleobase transporters: recent advances in the investigation of structure/function relationships and the identification of novel isoforms. Molecular Membrane Biology, 2001, 18, 53-63.	2.0	127
63	Equilibrative Nucleoside Transporters:â€‰ Mapping Regions of Interaction for the Substrate Analogue Nitrobenzylthioinosine (NBMPR) Using Rat Chimeric Proteins. Biochemistry, 2001, 40, 8146-8151.	2.5	53
64	Identification of Cys140 in helix 4 as an exofacial cysteine residue within the substrate-translocation channel of rat equilibrative nitrobenzylthioinosine (NBMPR)-insensitive nucleoside transporter rENT2. Biochemical Journal, 2001, 353, 387.	3.7	31
65	Identification of Cys140 in helix 4 as an exofacial cysteine residue within the substrate-translocation channel of rat equilibrative nitrobenzylthioinosine (NBMPR)-insensitive nucleoside transporter rENT2. Biochemical Journal, 2001, 353, 387-393.	3.7	51
66	Acquisition of Human Concentrative Nucleoside Transporter 2 (hCNT2) Activity by Gene Transfer Confers Sensitivity to Fluoropyrimidine Nucleosides in Drug-Resistant Leukemia Cells. Molecular Pharmacology, 2001, 60, 1143-1152.	2.3	59
67	Molecular Identification and Characterization of Novel Human and Mouse Concentrative Na+-Nucleoside Cotransporter Proteins (hCNT3 and mCNT3) Broadly Selective for Purine and Pyrimidine Nucleosides (System cib). Journal of Biological Chemistry, 2001, 276, 2914-2927.	3.4	302
68	Topology of a Human Equilibrative, Nitrobenzylthioinosine (NBMPR)-sensitive Nucleoside Transporter (hENT1) Implicated in the Cellular Uptake of Adenosine and Anti-cancer Drugs. Journal of Biological Chemistry, 2001, 276, 45270-45275.	3.4	125
69	Subcellular Distribution and Membrane Topology of the Mammalian Concentrative Na+-Nucleoside Cotransporter rCNT1. Journal of Biological Chemistry, 2001, 276, 27981-27988.	3.4	90
70	Transport of antiviral 3â€²-deoxy-nucleoside drugs by recombinant human and rat equilibrative, nitrobenzylthioinosine (NBMPR)-insensitive (ENT2) nucleoside transporter proteins produced in Xenopus oocytes. Molecular Membrane Biology, 2001, 18, 161-167.	2.0	136
71	The ENT family of eukaryote nucleoside and nucleobase transporters: recent advances in the investigation of structure/function relationships and the identification of novel isoforms. Molecular Membrane Biology, 2001, 18, 53-63.	2.0	115
72	Identification of a nucleoside/nucleobase transporter from Plasmodium falciparum, a novel target for anti-malarial chemotherapy. Biochemical Journal, 2000, 349, 67-75.	3.7	104

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73	Sensitivity of mammalian equilibrative nucleoside transporters to NBMPR: Identification of an amino acid residue fundamental in sensitivity. Biochemical Society Transactions, 2000, 28, A93-A93.	3.4	0
74	Nucleoside Transporter Proteins of Saccharomyces cerevisiae. Journal of Biological Chemistry, 2000, 275, 25931-25938.	3.4	70
75	Chapter 9 Molecular mechanisms of nucleoside and nucleoside drug transport. Current Topics in Membranes, 2000, 50, 329-378.	0.9	21
76	Differential Transport of Cytosine-Containing Nucleosides by Recombinant Human Concentrative Nucleoside Transporter Protein hCNT1. Nucleosides, Nucleotides and Nucleic Acids, 2000, 19, 415-434.	1.1	46
77	Identification of Amino Acid Residues Responsible for the Pyrimidine and Purine Nucleoside Specificities of Human Concentrative Na+ Nucleoside Cotransporters hCNT1 and hCNT2. Journal of Biological Chemistry, 1999, 274, 24475-24484.	3.4	77
78	Nucleoside transporters: molecular biology and implications for therapeutic development. Trends in Molecular Medicine, 1999, 5, 216-224.	2.6	303
79	Functional production and reconstitution of the human equilibrative nucleoside transporter (hENT1) in Saccharomyces cerevisiae. Biochemical Journal, 1999, 339, 21-32.	3.7	97
80	Adenosine transport: Recent advances in the molecular biology of nucleoside transporter proteins. Drug Development Research, 1998, 45, 277-287.	2.9	14
81	Nucleoside transport and its significance for anticancer drug resistance. Drug Resistance Updates, 1998, 1, 310-324.	14.4	141
82	Molecular cloning, functional expression and chromosomal localization of a cDNA encoding a human Na⁺/nucleoside cotransporter (hCNT2) selective for purine nucleosides and uridine. Molecular Membrane Biology, 1998, 15, 203-211.	2.0	173
83	Demonstration of Equilibrative Nucleoside Transporters (hENT1 and hENT2) in Nuclear Envelopes of Cultured Human Choriocarcinoma (BeWo) Cells by Functional Reconstitution in Proteoliposomes. Journal of Biological Chemistry, 1998, 273, 30818-30825.	3.4	64
84	Chimeric Constructs between Human and Rat Equilibrative Nucleoside Transporters (hENT1 and rENT1) Reveal hENT1 Structural Domains Interacting with Coronary Vasoactive Drugs. Journal of Biological Chemistry, 1998, 273, 21519-21525.	3.4	106
85	GLUT-1 mediation of rapid glucose transport in dolphin (Tursiops truncatus) red blood cells. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 1998, 274, R112-R119.	1.8	20
86	Molecular Cloning and Functional Characterization of Nitrobenzylthioinosine (NBMPR)-sensitive (es) and NBMPR-insensitive (ei) Equilibrative Nucleoside Transporter Proteins (rENT1 and rENT2) from Rat Tissues. Journal of Biological Chemistry, 1997, 272, 28423-28430.	3.4	203
87	Cloning of a human nucleoside transporter implicated in the Cellular uptake of adenosine and chemotherapeutic drugs. Nature Medicine, 1997, 3, 89-93.	30.7	397
88	Functional characterization of a recombinant sodium-dependent nucleoside transporter with selectivity for pyrimidine nucleosides (cNT1rat) by transient expression in cultured mammalian cells. Biochemical Journal, 1996, 317, 457-465.	3.7	63
89	RAPID ENTRY OF D-GLUCOSE INTO ERYTHROCYTES FROM BOTTLENOSE DOLPHINS (TURSIOPS TRUNCATUS). Marine Mammal Science, 1995, 11, 584-589.	1.8	7
90	Poly(A)⁺RNA from the mucosa of rat jejunum induces novel Na⁺-dependent and Na⁺-independent leucine transport activities in in oocytes ofXenopus laevis. Molecular Membrane Biology, 1994, 11, 109-118.	2.0	9

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91	Nucleoside transport in rat erythrocytes: two components with differences in sensitivity to inhibition by nitrobenzylthioinosine andp-chloromercuriphenyl sulfonate. Journal of Membrane Biology, 1986, 93, 1-10.	2.1	78
92	The erythrocyte nucleoside transporter is a glycoprotein. Biochemical Society Transactions, 1985, 13, 717-719.	3.4	4
93	Evidence for the asymmetrical binding of p-chloromercuriphenyl sulphonate to the human erythrocyte nucleoside transporter. Biochimica Et Biophysica Acta - Biomembranes, 1985, 818, 316-324.	2.6	25