

James D Young

List of Publications by Year in descending order

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93
papers

9,430
citations

53794

45
h-index

43889

91
g-index

94
all docs

94
docs citations

94
times ranked

7279
citing authors

#	ARTICLE	IF	CITATIONS
1	Global Mapping of the Yeast Genetic Interaction Network. <i>Science</i> , 2004, 303, 808-813.	12.6	1,908
2	The equilibrative nucleoside transporter family, SLC29. <i>Pflugers Archiv European Journal of Physiology</i> , 2004, 447, 735-743.	2.8	594
3	Cloning of a human nucleoside transporter implicated in the Cellular uptake of adenosine and chemotherapeutic drugs. <i>Nature Medicine</i> , 1997, 3, 89-93.	30.7	397
4	The Absence of Human Equilibrative Nucleoside Transporter 1 Is Associated with Reduced Survival in Patients With Gemcitabine-Treated Pancreas Adenocarcinoma. <i>Clinical Cancer Research</i> , 2004, 10, 6956-6961.	7.0	360
5	Nucleoside transporters: molecular biology and implications for therapeutic development. <i>Trends in Molecular Medicine</i> , 1999, 5, 216-224.	2.6	303
6	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). <i>Journal of Biological Chemistry</i> , 2001, 276, 2914-2927.	3.4	302
7	The human concentrative and equilibrative nucleoside transporter families, SLC28 and SLC29. <i>Molecular Aspects of Medicine</i> , 2013, 34, 529-547.	6.4	285
8	Functional Characterization of Novel Human and Mouse Equilibrative Nucleoside Transporters (hENT3 and mENT3) Located in Intracellular Membranes. <i>Journal of Biological Chemistry</i> , 2005, 280, 15880-15887.	3.4	271
9	Nucleoside anticancer drugs: the role of nucleoside transporters in resistance to cancer chemotherapy. <i>Oncogene</i> , 2003, 22, 7524-7536.	5.9	267
10	Nucleoside transporters: from scavengers to novel therapeutic targets. <i>Trends in Pharmacological Sciences</i> , 2006, 27, 416-425.	8.7	264
11	Molecular Cloning and Functional Characterization of Nitrobenzylthioinosine (NBMPR)-sensitive (es) and NBMPR-insensitive (ei) Equilibrative Nucleoside Transporter Proteins (rENT1 and rENT2) from Rat Tissues. <i>Journal of Biological Chemistry</i> , 1997, 272, 28423-28430.	3.4	203
12	The role of nucleoside transporters in cancer chemotherapy with nucleoside drugs. <i>Cancer and Metastasis Reviews</i> , 2007, 26, 85-110.	5.9	202
13	Human Equilibrative Nucleoside Transporter 1 and Human Concentrative Nucleoside Transporter 3 Predict Survival after Adjuvant Gemcitabine Therapy in Resected Pancreatic Adenocarcinoma. <i>Clinical Cancer Research</i> , 2009, 15, 2913-2919.	7.0	188
14	Distribution and Functional Characterization of Equilibrative Nucleoside Transporter-4, a Novel Cardiac Adenosine Transporter Activated at Acidic pH. <i>Circulation Research</i> , 2006, 99, 510-519.	4.5	181
15	Molecular cloning, functional expression and chromosomal localization of a cDNA encoding a human Na ⁺ /nucleoside cotransporter (hCNT2) selective for purine nucleosides and uridine. <i>Molecular Membrane Biology</i> , 1998, 15, 203-211.	2.0	173
16	Molecular Biology of Nucleoside Transporters and their Distributions and Functions in the Brain. <i>Current Topics in Medicinal Chemistry</i> , 2011, 11, 948-972.	2.1	158
17	Functional and Molecular Characterization of Nucleobase Transport by Recombinant Human and Rat Equilibrative Nucleoside Transporters 1 and 2. <i>Journal of Biological Chemistry</i> , 2002, 277, 24938-24948.	3.4	157
18	Nucleoside transport and its significance for anticancer drug resistance. <i>Drug Resistance Updates</i> , 1998, 1, 310-324.	14.4	141

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19	Transport of antiviral 3'-deoxy-nucleoside drugs by recombinant human and rat equilibrative, nitrobenzylthioinosine (NBMPR)-insensitive (ENT2) nucleoside transporter proteins produced in <i>Xenopus oocytes</i> . <i>Molecular Membrane Biology</i> , 2001, 18, 161-167.	2.0	136
20	The ENT family of eukaryote nucleoside and nucleobase transporters: recent advances in the investigation of structure/function relationships and the identification of novel isoforms. <i>Molecular Membrane Biology</i> , 2001, 18, 53-63.	2.0	127
21	Topology of a Human Equilibrative, Nitrobenzylthioinosine (NBMPR)-sensitive Nucleoside Transporter (hENT1) Implicated in the Cellular Uptake of Adenosine and Anti-cancer Drugs. <i>Journal of Biological Chemistry</i> , 2001, 276, 45270-45275.	3.4	125
22	Mutation of Residue 33 of Human Equilibrative Nucleoside Transporters 1 and 2 Alters Sensitivity to Inhibition of Transport by Dilazep and Dipyridamole. <i>Journal of Biological Chemistry</i> , 2002, 277, 395-401.	3.4	122
23	The ENT family of eukaryote nucleoside and nucleobase transporters: recent advances in the investigation of structure/function relationships and the identification of novel isoforms. <i>Molecular Membrane Biology</i> , 2001, 18, 53-63.	2.0	115
24	Chimeric Constructs between Human and Rat Equilibrative Nucleoside Transporters (hENT1 and rENT1) Reveal hENT1 Structural Domains Interacting with Coronary Vasoactive Drugs. <i>Journal of Biological Chemistry</i> , 1998, 273, 21519-21525.	3.4	106
25	Identification of a nucleoside/nucleobase transporter from <i>Plasmodium falciparum</i> , a novel target for anti-malarial chemotherapy. <i>Biochemical Journal</i> , 2000, 349, 67-75.	3.7	104
26	Nucleobase Transport by Human Equilibrative Nucleoside Transporter 1 (hENT1). <i>Journal of Biological Chemistry</i> , 2011, 286, 32552-32562.	3.4	102
27	Functional production and reconstitution of the human equilibrative nucleoside transporter (hENT1) in <i>Saccharomyces cerevisiae</i> . <i>Biochemical Journal</i> , 1999, 339, 21-32.	3.7	97
28	Subcellular Distribution and Membrane Topology of the Mammalian Concentrative Na ⁺ -Nucleoside Cotransporter rCNT1. <i>Journal of Biological Chemistry</i> , 2001, 276, 27981-27988.	3.4	90
29	Electrophysiological characterization of a recombinant human Na ⁺ -coupled nucleoside transporter (hCNT1) produced in <i>Xenopus oocytes</i> . <i>Journal of Physiology</i> , 2004, 558, 807-823.	2.9	84
30	The SLC28 (CNT) and SLC29 (ENT) nucleoside transporter families: a 30-year collaborative odyssey. <i>Biochemical Society Transactions</i> , 2016, 44, 869-876.	3.4	83
31	Nucleoside transport in rat erythrocytes: two components with differences in sensitivity to inhibition by nitrobenzylthioinosine and p-chloromercuriphenyl sulfonate. <i>Journal of Membrane Biology</i> , 1986, 93, 1-10.	2.1	78
32	Identification of Amino Acid Residues Responsible for the Pyrimidine and Purine Nucleoside Specificities of Human Concentrative Na ⁺ Nucleoside Cotransporters hCNT1 and hCNT2. <i>Journal of Biological Chemistry</i> , 1999, 274, 24475-24484.	3.4	77
33	The Broadly Selective Human Na ⁺ /Nucleoside Cotransporter (hCNT3) Exhibits Novel Cation-coupled Nucleoside Transport Characteristics. <i>Journal of Biological Chemistry</i> , 2005, 280, 25436-25449.	3.4	73
34	Nucleoside Transporter Proteins of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2000, 275, 25931-25938.	3.4	70
35	Demonstration of Equilibrative Nucleoside Transporters (hENT1 and hENT2) in Nuclear Envelopes of Cultured Human Choriocarcinoma (BeWo) Cells by Functional Reconstitution in Proteoliposomes. <i>Journal of Biological Chemistry</i> , 1998, 273, 30818-30825.	3.4	64
36	Functional characterization of a recombinant sodium-dependent nucleoside transporter with selectivity for pyrimidine nucleosides (cNT1rat) by transient expression in cultured mammalian cells. <i>Biochemical Journal</i> , 1996, 317, 457-465.	3.7	63

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37	The Role of Human Nucleoside Transporters in Uptake of $3\text{-}^2\text{-Deoxy-}3\text{-}^2\text{-fluorothymidine}$. <i>Molecular Pharmacology</i> , 2008, 74, 1372-1380.	2.3	61
38	Red Fluorescent Protein pH Biosensor to Detect Concentrative Nucleoside Transport. <i>Journal of Biological Chemistry</i> , 2009, 284, 20499-20511.	3.4	61
39	Acquisition of Human Concentrative Nucleoside Transporter 2 (hCNT2) Activity by Gene Transfer Confers Sensitivity to Fluoropyrimidine Nucleosides in Drug-Resistant Leukemia Cells. <i>Molecular Pharmacology</i> , 2001, 60, 1143-1152.	2.3	59
40	Equilibrative Nucleoside Transporters: Mapping Regions of Interaction for the Substrate Analogue Nitrobenzylthioinosine (NBMPR) Using Rat Chimeric Proteins. <i>Biochemistry</i> , 2001, 40, 8146-8151.	2.5	53
41	Localization of broadly selective equilibrative and concentrative nucleoside transporters, hENT1 and hCNT3, in human kidney. <i>American Journal of Physiology - Renal Physiology</i> , 2007, 293, F200-F211.	2.7	52
42	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. <i>Biochemical Journal</i> , 2001, 353, 387-393.	3.7	51
43	The Role of Membrane Transporters in Cellular Resistance to Anticancer Nucleoside Drugs. <i>Cancer Treatment and Research</i> , 2002, 112, 27-47.	0.5	50
44	Biodistribution and Uptake of $3\text{-}^2\text{-Deoxy-}3\text{-}^2\text{-Fluorothymidine}$ in ENT1-Knockout Mice and in an ENT1-Knockdown Tumor Model. <i>Journal of Nuclear Medicine</i> , 2010, 51, 1447-1455.	5.0	50
45	Renal nucleoside transporters: physiological and clinical implications This paper is one of a selection of papers published in this Special Issue, entitled CSBMCB "Membrane Proteins in Health and Disease.. <i>Biochemistry and Cell Biology</i> , 2006, 84, 844-858.	2.0	48
46	Differential Transport of Cytosine-Containing Nucleosides by Recombinant Human Concentrative Nucleoside Transporter Protein hCNT1. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2000, 19, 415-434.	1.1	46
47	Uridine Recognition Motifs of Human Equilibrative Nucleoside Transporters 1 and 2 Produced in <i>Saccharomyces cerevisiae</i> . <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2004, 23, 361-373.	1.1	45
48	Residue 33 of Human Equilibrative Nucleoside Transporter 2 Is a Functionally Important Component of Both the Dipyridamole and Nucleoside Binding Sites. <i>Molecular Pharmacology</i> , 2005, 67, 1291-1298.	2.3	42
49	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. <i>Journal of Biological Chemistry</i> , 2007, 282, 14148-14157.	3.4	40
50	Uridine Binding and Transportability Determinants of Human Concentrative Nucleoside Transporters. <i>Molecular Pharmacology</i> , 2005, 68, 830-839.	2.3	38
51	Cation coupling properties of human concentrative nucleoside transporters hCNT1, hCNT2 and hCNT3. <i>Molecular Membrane Biology</i> , 2007, 24, 53-64.	2.0	38
52	Transport of physiological nucleosides and anti-viral and anti-neoplastic nucleoside drugs by recombinant <i>Escherichia coli</i> nucleoside-H ⁺ cotransporter (NupC) produced in <i>Xenopus laevis</i> oocytes. <i>Molecular Membrane Biology</i> , 2004, 21, 1-10.	2.0	34
53	Identification and Mutational Analysis of Amino Acid Residues Involved in Dipyridamole Interactions with Human and <i>Caenorhabditis elegans</i> Equilibrative Nucleoside Transporters. <i>Journal of Biological Chemistry</i> , 2005, 280, 11025-11034.	3.4	33
54	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. <i>Biochemical Journal</i> , 2001, 353, 387.	3.7	31

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55	An ancient prevertebrate Na ⁺ -nucleoside cotransporter (hfCNT) from the Pacific hagfish (<i>Eptatretus stouti</i>). <i>American Journal of Physiology - Cell Physiology</i> , 2002, 283, C155-C168.	4.6	31
56	Improved Syntheses of 5 [′] -((2-Aminoethyl)-6-nitrobenzyl)-5-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. <i>Journal of Medicinal Chemistry</i> , 2010, 53, 6040-6053.	6.4	30
57	Human Nucleoside Transporters: Biomarkers for Response to Nucleoside Drugs. <i>Nucleosides, Nucleotides and Nucleic Acids</i> , 2009, 28, 450-463.	1.1	29
58	Transepithelial fluxes of adenosine and 2 [′] -deoxyadenosine across human renal proximal tubule cells: roles of nucleoside transporters hENT1, hENT2, and hCNT3. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 296, F1439-F1451.	2.7	27
59	Functional characterization of a H ⁺ /nucleoside co-transporter (CaCNT) from <i>Candida albicans</i> , a fungal member of the concentrative nucleoside transporter (CNT) family of membrane proteins. <i>Yeast</i> , 2003, 20, 661-675.	1.7	26
60	Evidence for the asymmetrical binding of p-chloromercuriphenyl sulphonate to the human erythrocyte nucleoside transporter. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1985, 818, 316-324.	2.6	25
61	Cysteine-accessibility analysis of transmembrane domains 11-13 of human concentrative nucleoside transporter 3. <i>Biochemical Journal</i> , 2006, 394, 389-398.	3.7	23
62	Chapter 9 Molecular mechanisms of nucleoside and nucleoside drug transport. <i>Current Topics in Membranes</i> , 2000, 50, 329-378.	0.9	21
63	Interaction of fused-pyrimidine nucleoside analogs with human concentrative nucleoside transporters: High-affinity inhibitors of human concentrative nucleoside transporter 1. <i>Biochemical Pharmacology</i> , 2011, 81, 82-90.	4.4	21
64	GLUT-1 mediation of rapid glucose transport in dolphin (<i>Tursiops truncatus</i>) red blood cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 1998, 274, R112-R119.	1.8	20
65	Conserved Glutamate Residues Are Critically Involved in Na ⁺ /Nucleoside Cotransport by Human Concentrative Nucleoside Transporter 1 (hCNT1). <i>Journal of Biological Chemistry</i> , 2007, 282, 30607-30617.	3.4	19
66	Specific Mutations in Transmembrane Helix 8 of Human Concentrative Na ⁺ /Nucleoside Cotransporter hCNT1 Affect Permeant Selectivity and Cation Coupling. <i>Biochemistry</i> , 2007, 46, 1684-1693.	2.5	17
67	A Conformationally Mobile Cysteine Residue (Cys-561) Modulates Na ⁺ and H ⁺ Activation of Human CNT3. <i>Journal of Biological Chemistry</i> , 2008, 283, 24922-24934.	3.4	17
68	A Proton-mediated Conformational Shift Identifies a Mobile Pore-lining Cysteine Residue (Cys-561) in Human Concentrative Nucleoside Transporter 3. <i>Journal of Biological Chemistry</i> , 2008, 283, 8496-8507.	3.4	16
69	Conserved Glutamate Residues Glu-343 and Glu-519 Provide Mechanistic Insights into Cation/Nucleoside Cotransport by Human Concentrative Nucleoside Transporter hCNT3. <i>Journal of Biological Chemistry</i> , 2009, 284, 17266-17280.	3.4	15
70	Adenosine transport: Recent advances in the molecular biology of nucleoside transporter proteins. <i>Drug Development Research</i> , 1998, 45, 277-287.	2.9	14
71	Behavioral effects of elevated expression of human equilibrative nucleoside transporter 1 in mice. <i>Behavioural Brain Research</i> , 2011, 224, 44-49.	2.2	14
72	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. <i>Journal of Biological Chemistry</i> , 2017, 292, 9505-9522.	3.4	14

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73	Characterization of the Transport Mechanism and Permeant Binding Profile of the Uridine Permease Fui1p of <i>Saccharomyces cerevisiae</i> . <i>Journal of Biological Chemistry</i> , 2006, 281, 28210-28221.	3.4	13
74	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). <i>Journal of Biological Chemistry</i> , 2009, 284, 17281-17292.	3.4	13
75	Human concentrative nucleoside transporter 3 is a determinant of fludarabine transportability and cytotoxicity in human renal proximal tubule cell cultures. <i>Cancer Chemotherapy and Pharmacology</i> , 2009, 63, 289-301.	2.3	13
76	Influence of Sugar Ring Conformation on the Transportability of Nucleosides by Human Nucleoside Transporters. <i>ChemBioChem</i> , 2011, 12, 2774-2778.	2.6	13
77	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. <i>PLoS ONE</i> , 2015, 10, e0143010.	2.5	12
78	Synthesis of Purine and 7-Deazapurine Nucleoside Analogues of 6-(4-Nitrobenzyl)adenosine; Inhibition of Nucleoside Transport and Proliferation of Cancer Cells. <i>ChemMedChem</i> , 2014, 9, 2186-2192.	3.2	11
79	HPLC reveals novel features of nucleoside and nucleobase homeostasis, nucleoside metabolism and nucleoside transport. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183247.	2.6	10
80	Poly(A) ⁺ RNA from the mucosa of rat jejunum induces novel Na ⁺ -dependent and Na ⁺ -independent leucine transport activities in oocytes of <i>Xenopus laevis</i> . <i>Molecular Membrane Biology</i> , 1994, 11, 109-118.	2.0	9
81	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. <i>Drug Metabolism and Disposition</i> , 2013, 41, 916-922.	3.3	9
82	The Purinome and the pre-Årtzinger Complex – A MÅ@nagement of Unexplored Mechanisms That May Modulate/Shape the Hypoxic Ventilatory Response. <i>Frontiers in Cellular Neuroscience</i> , 2019, 13, 365.	3.7	8
83	RAPID ENTRY OF D-GLUCOSE INTO ERYTHROCYTES FROM BOTTLENOSE DOLPHINS (<i>TURSIOPS TRUNCATUS</i>). <i>Marine Mammal Science</i> , 1995, 11, 584-589.	1.8	7
84	Nucleoside transporter gene expression in wild-type and mENT1 knockout mice This paper is one of a selection of papers published in a Special Issue entitled CSBMCB 53rd Annual Meeting – Membrane Proteins in Health and Disease, and has undergone the Journal's usual peer review process.. <i>Biochemistry and Cell Biology</i> , 2011, 89, 236-245.	2.0	7
85	Role of cysteine 416 in <i>N</i> -ethylmaleimide sensitivity of human equilibrative nucleoside transporter 1 (hENT1). <i>Biochemical Journal</i> , 2018, 475, 3293-3309.	3.7	6
86	Allelic isoforms of the H ⁺ /nucleoside co-transporter (CaCNT) from <i>Candida albicans</i> reveal separate high- and low-affinity transport systems for nucleosides. <i>Yeast</i> , 2004, 21, 1269-1277.	1.7	5
87	Inward- and outward-facing homology modeling of human concentrative nucleoside transporter 3 (hCNT3) predicts an elevator-type transport mechanism. <i>Channels</i> , 2018, 12, 291-298.	2.8	5
88	The erythrocyte nucleoside transporter is a glycoprotein. <i>Biochemical Society Transactions</i> , 1985, 13, 717-719.	3.4	4
89	In vitro inhibition of human nucleoside transporters and uptake of azacitidine by an isocitrate dehydrogenase-2 inhibitor enasidenib and its metabolite AGI-16903. <i>Xenobiotica</i> , 2019, 49, 1229-1236.	1.1	1
90	hGLUT9 as a novel urate transporter: its role in liver urate handling and functional study of SLC2A9 SNPs. <i>FASEB Journal</i> , 2009, 23, 797.4.	0.5	1

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91	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
92	SLC28 and SLC29. , 2017, , 1-9.		0
93	SLC28 and SLC29. , 2018, , 5002-5010.		0