

David E Smith

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5411637/publications.pdf>

Version: 2024-02-01

102
papers

3,588
citations

117571

34
h-index

155592

55
g-index

102
all docs

102
docs citations

102
times ranked

2760
citing authors

#	ARTICLE	IF	CITATIONS
1	Proton-coupled oligopeptide transporter family SLC15: Physiological, pharmacological and pathological implications. <i>Molecular Aspects of Medicine</i> , 2013, 34, 323-336.	2.7	260
2	Peptide and peptide analog transport systems at the blood-CSF barrier. <i>Advanced Drug Delivery Reviews</i> , 2004, 56, 1765-1791.	6.6	145
3	Localization of PEPT1 and PEPT2 proton-coupled oligopeptide transporter mRNA and protein in rat kidney. <i>American Journal of Physiology - Renal Physiology</i> , 1999, 276, F658-F665.	1.3	131
4	Clathrin- and Dynamin-Dependent Endocytic Pathway Regulates Muramyl Dipeptide Internalization and NOD2 Activation. <i>Journal of Immunology</i> , 2009, 182, 4321-4327.	0.4	110
5	Targeted Disruption of Peptide Transporter <i>Pept1</i> Gene in Mice Significantly Reduces Dipeptide Absorption in Intestine. <i>Molecular Pharmaceutics</i> , 2008, 5, 1122-1130.	2.3	106
6	Role of PEPT2 in Peptide/Mimetic Trafficking at the Blood-Cerebrospinal Fluid Barrier: Studies in Rat Choroid Plexus Epithelial Cells in Primary Culture. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2002, 301, 820-829.	1.3	104
7	Developmental Expression of PEPT1 and PEPT2 in Rat Small Intestine, Colon, and Kidney. <i>Pediatric Research</i> , 2001, 49, 789-795.	1.1	102
8	Targeted Disruption of the PEPT2 Gene Markedly Reduces Dipeptide Uptake in Choroid Plexus. <i>Journal of Biological Chemistry</i> , 2003, 278, 4786-4791.	1.6	86
9	Differential recognition of ACE inhibitors in <i>Xenopus laevis</i> oocytes expressing rat PEPT1 and PEPT2. <i>Pharmaceutical Research</i> , 2000, 17, 526-532.	1.7	85
10	Role and Relevance of Peptide Transporter 2 (PEPT2) in the Kidney and Choroid Plexus: In Vivo Studies with Glycylsarcosine in Wild-Type and PEPT2 Knockout Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 240-247.	1.3	85
11	Significance and Regional Dependency of Peptide Transporter (PEPT) 1 in the Intestinal Permeability of Glycylsarcosine: In Situ Single-Pass Perfusion Studies in Wild-Type and <i>Pept1</i> Knockout Mice. <i>Drug Metabolism and Disposition</i> , 2010, 38, 1740-1746.	1.7	81
12	Immunolocalization of the Proton-Coupled Oligopeptide Transporter PEPT2 in Developing Rat Brain. <i>Molecular Pharmaceutics</i> , 2004, 1, 248-256.	2.3	79
13	Tubular localization and tissue distribution of peptide transporters in rat kidney. <i>Pharmaceutical Research</i> , 1998, 15, 1244-1249.	1.7	77
14	Role and Relevance of PEPT2 in Drug Disposition, Dynamics, and Toxicity. <i>Drug Metabolism and Pharmacokinetics</i> , 2008, 23, 236-242.	1.1	77
15	Impact of Genetic Knockout of PEPT2 on Cefadroxil Pharmacokinetics, Renal Tubular Reabsorption, and Brain Penetration in Mice. <i>Drug Metabolism and Disposition</i> , 2007, 35, 1209-1216.	1.7	75
16	Influence of genetic knockout of <i>Pept2</i> on the in vivo disposition of endogenous and exogenous carnosine in wild-type and <i>Pept2</i> null mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009, 296, R986-R991.	0.9	71
17	Steady-state pharmacokinetics of delavirdine in HIV-positive patients: Effect on erythromycin breath test *. <i>Clinical Pharmacology and Therapeutics</i> , 1997, 61, 531-543.	2.3	63
18	Interspecies scaling and prediction of human clearance: comparison of small- and macro-molecule drugs. <i>Xenobiotica</i> , 2011, 41, 972-987.	0.5	63

#	ARTICLE	IF	CITATIONS
19	Erythromycin breath test predicts oral clearance of cyclosporine in kidney transplant recipients. <i>Clinical Pharmacology and Therapeutics</i> , 1992, 52, 471-478.	2.3	61
20	Stoichiometry and Kinetics of the High-affinity H ⁺ -coupled Peptide Transporter PepT2. <i>Journal of Biological Chemistry</i> , 1999, 274, 2773-2779.	1.6	61
21	Peptide transporter 2 (PEPT2) expression in brain protects against 5-aminolevulinic acid neurotoxicity. <i>Journal of Neurochemistry</i> , 2007, 103, 2058-2065.	2.1	57
22	Significance of Peptide Transporter 1 in the Intestinal Permeability of Valacyclovir in Wild-Type and <i>PepT1</i> Knockout Mice. <i>Drug Metabolism and Disposition</i> , 2013, 41, 608-614.	1.7	54
23	PEPT2-mediated uptake of neuropeptides in rat choroid plexus. <i>Pharmaceutical Research</i> , 2001, 18, 807-813.	1.7	52
24	SLC15A2 and SLC15A4 Mediate the Transport of Bacterially Derived Di/Tripeptides To Enhance the Nucleotide-Binding Oligomerization Domain-Dependent Immune Response in Mouse Bone Marrow-Derived Macrophages. <i>Journal of Immunology</i> , 2018, 201, 652-662.	0.4	48
25	Carnosine uptake in rat choroid plexus primary cell cultures and choroid plexus whole tissue from PEPT2 null mice. <i>Journal of Neurochemistry</i> , 2004, 89, 375-382.	2.1	44
26	PEPT2-mediated transport of 5-aminolevulinic acid and carnosine in astrocytes. <i>Brain Research</i> , 2006, 1122, 18-23.	1.1	44
27	Regulation and biological role of the peptide/histidine transporter SLC15A3 in Toll-like receptor-mediated inflammatory responses in macrophage. <i>Cell Death and Disease</i> , 2018, 9, 770.	2.7	44
28	Mouse endogenous retroviruses can trigger premature transcriptional termination at a distance. <i>Genome Research</i> , 2012, 22, 870-884.	2.4	43
29	Preliminary investigation into the expression of proton-coupled oligopeptide transporters in neural retina and retinal pigment epithelium (RPE): lack of functional activity in RPE plasma membranes. <i>Pharmaceutical Research</i> , 2003, 20, 1364-1372.	1.7	41
30	Mechanisms of Cefadroxil Uptake in the Choroid Plexus: Studies in Wild-Type and PEPT2 Knockout Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 308, 462-467.	1.3	39
31	Kinetics, dynamics, and bioavailability of bumetanide in healthy subjects and patients with congestive heart failure. <i>Clinical Pharmacology and Therapeutics</i> , 1988, 44, 487-500.	2.3	38
32	Choroid plexus transport: gene deletion studies. <i>Fluids and Barriers of the CNS</i> , 2011, 8, 26.	2.4	38
33	Functional and Molecular Expression of the Proton-Coupled Oligopeptide Transporters in Spleen and Macrophages from Mouse and Human. <i>Molecular Pharmaceutics</i> , 2013, 10, 1409-1416.	2.3	38
34	Impact of Peptide Transporter 1 on the Intestinal Absorption and Pharmacokinetics of Valacyclovir after Oral Dose Escalation in Wild-Type and <i>PepT1</i> Knockout Mice. <i>Drug Metabolism and Disposition</i> , 2013, 41, 1867-1874.	1.7	37
35	Role of PEPT2 in the Choroid Plexus Uptake of Glycylsarcosine and 5-Aminolevulinic Acid: Studies in Wild-Type and Null Mice. <i>Pharmaceutical Research</i> , 2004, 21, 1680-1685.	1.7	36
36	Kinetics, dynamics, and bioavailability of bumetanide in healthy subjects and patients with chronic renal failure. <i>Clinical Pharmacology and Therapeutics</i> , 1986, 39, 635-645.	2.3	34

#	ARTICLE	IF	CITATIONS
37	Influence of Fed-Fasted State on Intestinal PEPT1 Expression and In Vivo Pharmacokinetics of Glycylsarcosine in Wild-Type and Pept1 Knockout Mice. <i>Pharmaceutical Research</i> , 2012, 29, 535-545.	1.7	34
38	Transport Mechanisms of Carnosine in SKPT Cells: Contribution of Apical and Basolateral Membrane Transporters. <i>Pharmaceutical Research</i> , 2009, 26, 172-181.	1.7	32
39	Selective radioprotection of hepatocytes by systemic and portal vein infusions of amifostine in a rat liver tumor model. <i>International Journal of Radiation Oncology Biology Physics</i> , 2001, 50, 473-478.	0.4	31
40	Distribution of Glycylsarcosine and Cefadroxil among Cerebrospinal Fluid, Choroid Plexus, and Brain Parenchyma after Intracerebroventricular Injection is Markedly Different between Wild-Type and Pept2 Null Mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2011, 31, 250-261.	2.4	31
41	Competitive inhibition of glycylsarcosine transport by enalapril in rabbit renal brush border membrane vesicles: interaction of ACE inhibitors with high-affinity H ⁺ /peptide symporter. <i>Pharmaceutical Research</i> , 1999, 16, 609-615.	1.7	29
42	PEPT2 (Slc15a2)-Mediated Unidirectional Transport of Cefadroxil from Cerebrospinal Fluid into Choroid Plexus. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2005, 315, 1101-1108.	1.3	29
43	Peptide Transporter 1 Is Responsible for Intestinal Uptake of the Dipeptide Glycylsarcosine: Studies in Everted Jejunal Rings from Wild-type and Pept1 Null Mice. <i>Journal of Pharmaceutical Sciences</i> , 2011, 100, 767-774.	1.6	28
44	[¹¹ C]Glycylsarcosine: synthesis and in vivo evaluation as a PET tracer of PepT2 transporter function in kidney of PepT2 null and wild-type mice. <i>Bioorganic and Medicinal Chemistry</i> , 2005, 13, 2993-3001.	1.4	27
45	Relevance of PepT1 in the Intestinal Permeability and Oral Absorption of Cefadroxil. <i>Pharmaceutical Research</i> , 2013, 30, 1017-1025.	1.7	27
46	Revisiting atenolol as a low passive permeability marker. <i>Fluids and Barriers of the CNS</i> , 2017, 14, 30.	2.4	24
47	Enhanced antinociceptive response to intracerebroventricular kyotorphin in <i>Pept2</i> null mice. <i>Journal of Neurochemistry</i> , 2009, 109, 1536-1543.	2.1	23
48	Species differences in the pharmacokinetics of cefadroxil as determined in wildtype and humanized <i>Pept1</i> mice. <i>Biochemical Pharmacology</i> , 2016, 107, 81-90.	2.0	23
49	Expression and regulation of proton-coupled oligopeptide transporters in colonic tissue and immune cells of mice. <i>Biochemical Pharmacology</i> , 2018, 148, 163-173.	2.0	23
50	Determination of the population pharmacokinetic parameters of sustained-release and enteric-coated oral formulations, and the suppository formulation of diclofenac sodium by simultaneous data fitting using NONMEM. , 1998, 19, 169-174.		22
51	Divergent developmental expression and function of the proton-coupled oligopeptide transporters <i>Pept2</i> and <i>PhT1</i> in regional brain slices of mouse and rat. <i>Journal of Neurochemistry</i> , 2014, 129, 955-965.	2.1	22
52	Development and Characterization of a Novel Mouse Line Humanized for the Intestinal Peptide Transporter <i>PEPT1</i> . <i>Molecular Pharmaceutics</i> , 2014, 11, 3737-3746.	2.3	22
53	Effect of transporter inhibition on the distribution of cefadroxil in rat brain. <i>Fluids and Barriers of the CNS</i> , 2014, 11, 25.	2.4	21
54	Expression and Regulation of the Proton-Coupled Oligopeptide Transporter <i>PhT2</i> by LPS in Macrophages and Mouse Spleen. <i>Molecular Pharmaceutics</i> , 2014, 11, 1880-1888.	2.3	21

#	ARTICLE	IF	CITATIONS
55	Influence of peptide transporter 2 (PEPT2) on the distribution of cefadroxil in mouse brain: A microdialysis study. <i>Biochemical Pharmacology</i> , 2017, 131, 89-97.	2.0	21
56	Stereoselective systemic disposition of ibuprofen enantiomers in the dog. <i>Pharmaceutical Research</i> , 1991, 08, 1186-1190.	1.7	20
57	Effect of Dose Escalation on the In Vivo Oral Absorption and Disposition of Glycylsarcosine in Wild-Type and <i>PepT1</i> Knockout Mice. <i>Drug Metabolism and Disposition</i> , 2011, 39, 2250-2257.	1.7	20
58	Species-Dependent Uptake of Glycylsarcosine but Not Oseltamivir in <i>Pichia pastoris</i> Expressing the Rat, Mouse, and Human Intestinal Peptide Transporter PEPT1. <i>Drug Metabolism and Disposition</i> , 2012, 40, 1328-1335.	1.7	20
59	In Vivo Absorption and Disposition of Cefadroxil After Escalating Oral Doses in Wild-Type and <i>PepT1</i> Knockout Mice. <i>Pharmaceutical Research</i> , 2013, 30, 2931-2939.	1.7	20
60	Chemical Modulation of the Human Oligopeptide Transporter 1, hPepT1. <i>Molecular Pharmaceutics</i> , 2017, 14, 4685-4693.	2.3	20
61	Functional Characterization of Human Peptide/Histidine Transporter 1 in Stably Transfected MDCK Cells. <i>Molecular Pharmaceutics</i> , 2018, 15, 385-393.	2.3	18
62	Glycyl-L-Glutamine Disposition in Rat Choroid Plexus Epithelial Cells in Primary Culture: Role of PEPT2. <i>Pharmaceutical Research</i> , 2005, 22, 1281-1286.	1.7	17
63	Determination of quinapril and quinaprilat by high-performance liquid chromatography with radiochemical detection, coupled to liquid scintillation counting spectrometry. <i>Biomedical Applications</i> , 1995, 666, 360-367.	1.7	16
64	Regional Pharmacokinetics of Amifostine in Anesthetized Dogs: Role of the Liver, Gastrointestinal Tract, Lungs, and Kidneys. <i>Drug Metabolism and Disposition</i> , 2002, 30, 1425-1430.	1.7	16
65	Effect of Diabetes Mellitus and Insulin on the Regulation of the <i>PepT</i> 1 Symporter in Rat Jejunum. <i>Molecular Pharmaceutics</i> , 2004, 1, 300-308.	2.3	16
66	Role of PEPT2 in glycylsarcosine transport in astrocyte and glioma cultures. <i>Neuroscience Letters</i> , 2006, 396, 225-229.	1.0	16
67	Stereoselective disposition of ibuprofen enantiomers in the isolated perfused rat kidney. <i>Pharmaceutical Research</i> , 1991, 08, 1520-1524.	1.7	15
68	Impact of Intestinal <i>PepT1</i> on the Kinetics and Dynamics of <i>N</i> -Formyl-Methionyl-Leucyl-Phenylalanine, a Bacterially-Produced Chemotactic Peptide. <i>Molecular Pharmaceutics</i> , 2013, 10, 677-684.	2.3	15
69	Potential Development of Tumor-Targeted Oral Anti-Cancer Prodrugs: Amino Acid and Dipeptide Monoester Prodrugs of Gemcitabine. <i>Molecules</i> , 2017, 22, 1322.	1.7	15
70	The effect of competitive and non-linear plasma protein binding on the stereoselective disposition and metabolic inversion of ibuprofen in healthy subjects. <i>Biopharmaceutics and Drug Disposition</i> , 1994, 15, 545-561.	1.1	14
71	A novel role for <i>PHT1</i> in the disposition of L-histidine in brain: In vitro slice and in vivo pharmacokinetic studies in wildtype and <i>Pht1</i> null mice. <i>Biochemical Pharmacology</i> , 2017, 124, 94-102.	2.0	14
72	Evaluating the intestinal and oral absorption of the prodrug valacyclovir in wildtype and <i>huPepT1</i> transgenic mice. <i>Biochemical Pharmacology</i> , 2018, 155, 1-7.	2.0	14

#	ARTICLE	IF	CITATIONS
73	Determination of WR-1065 in human blood by high-performance liquid chromatography following fluorescent derivatization by a maleimide reagent ThioGlo [®] 3. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 819, 161-167.	1.2	13
74	Impact of Lipopolysaccharide-Induced Inflammation on the Disposition of the Aminocephalosporin Cefadroxil. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 6171-6178.	1.4	13
75	The proton-coupled oligopeptide transporter 1 plays a major role in the intestinal permeability and absorption of 5-aminolevulinic acid. <i>British Journal of Pharmacology</i> , 2016, 173, 167-176.	2.7	13
76	Pharmacokinetics of gemcitabine and its amino acid ester prodrug following intravenous and oral administrations in mice. <i>Biochemical Pharmacology</i> , 2020, 180, 114127.	2.0	13
77	Tubular transport mechanisms of quinapril and quinaprilat in the isolated perfused rat kidney: Effect of organic anions and cations. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1996, 24, 349-368.	0.6	11
78	Disposition of WR-1065 in the liver of tumor-bearing rats following regional vs systemic administration of amifostine. <i>Biopharmaceutics and Drug Disposition</i> , 2004, 25, 27-35.	1.1	9
79	Kyotorphin transport and metabolism in rat and mouse neonatal astrocytes. <i>Brain Research</i> , 2010, 1347, 11-18.	1.1	9
80	Species Differences in Human and Rodent PEPT2-Mediated Transport of Glycylsarcosine and Cefadroxil in <i>Pichia Pastoris</i> Transformants. <i>Drug Metabolism and Disposition</i> , 2017, 45, 130-136.	1.7	9
81	A sensitive liquid chromatography-tandem mass spectrometry method for the quantification of valacyclovir and its metabolite acyclovir in mouse and human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1092, 447-452.	1.2	9
82	Chemoproteomic Identification of Serine Hydrolase RBBP9 as a Valacyclovir-Activating Enzyme. <i>Molecular Pharmaceutics</i> , 2020, 17, 1706-1714.	2.3	9
83	Development of acute tolerance to bumetanide: constant-rate infusion studies. <i>Pharmaceutical Research</i> , 1988, 05, 86-91.	1.7	8
84	Glycylsarcosine uptake in rabbit renal brush border membrane vesicles isolated from outer cortex or outer medulla: Evidence for heterogeneous distribution of oligopeptide transporters. <i>AAPS PharmSci</i> , 1999, 1, 1-6.	1.3	8
85	In Silico Absorption Analysis of Valacyclovir in Wildtype and Pept1 Knockout Mice Following Oral Dose Escalation. <i>Pharmaceutical Research</i> , 2017, 34, 2349-2361.	1.7	8
86	Competitive inhibition of p-aminohippurate transport by quinapril in rabbit renal basolateral membrane vesicles. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1998, 26, 269-287.	0.8	7
87	Population pharmacokinetics of mycophenolic acid in lung transplant recipients with and without cystic fibrosis. <i>European Journal of Clinical Pharmacology</i> , 2015, 71, 673-679.	0.8	7
88	In Silico Prediction of the Absorption and Disposition of Cefadroxil in Humans using an Intestinal Permeability Method Scaled from Humanized <i>PepT1</i> Mice. <i>Drug Metabolism and Disposition</i> , 2019, 47, 173-183.	1.7	7
89	Computing Substrate Selectivity in a Peptide Transporter. <i>Cell Chemical Biology</i> , 2016, 23, 211-213.	2.5	6
90	Stability of trimethoprim-sulfamethoxazole injection in five infusion fluids. <i>American Journal of Health-System Pharmacy</i> , 1982, 39, 1681-1684.	0.5	5

#	ARTICLE	IF	CITATIONS
91	Semi-Mechanistic Population Pharmacokinetic Modeling of L-Histidine Disposition and Brain Uptake in Wildtype and Pht1 Null Mice. <i>Pharmaceutical Research</i> , 2018, 35, 19.	1.7	5
92	Effect of angiotensin II-induced changes in perfusion flow rate on chlorothiazide transport in the isolated perfused rat kidney. <i>Journal of Pharmacokinetics and Pharmacodynamics</i> , 1992, 20, 195-207.	0.6	4
93	Pharmacokinetics of Pirmenol Enantiomers and Pharmacodynamics of Pirmenol Racemate in Patients with Premature Ventricular Contractions. <i>Journal of Clinical Pharmacology</i> , 1997, 37, 502-513.	1.0	4
94	Population pharmacokinetic modeling of cefadroxil renal transport in wild-type and Pept2 knockout mice. <i>Xenobiotica</i> , 2016, 46, 342-349.	0.5	4
95	Effect of biphenyl hydrolase-like (BPHL) gene disruption on the intestinal stability, permeability and absorption of valacyclovir in wildtype and Bphl knockout mice. <i>Biochemical Pharmacology</i> , 2018, 156, 147-156.	2.0	4
96	Mechanisms of gemcitabine oral absorption as determined by in situ intestinal perfusions in mice. <i>Biochemical Pharmacology</i> , 2019, 168, 57-64.	2.0	4
97	Characterization of the cellular transport mechanisms for the anti-cachexia candidate compound TCMCB07. <i>Journal of Cachexia, Sarcopenia and Muscle</i> , 2020, 11, 1677-1687.	2.9	4
98	Dedication to Professor Leslie Z. Benet: 50 Years of Scientific Excellence and Still Going Strong!. <i>Pharmaceutical Research</i> , 2012, 29, 2345-2353.	1.7	3
99	Importance of Peptide Transporter 2 on the Cerebrospinal Fluid Efflux Kinetics of Glycylsarcosine Characterized by Nonlinear Mixed Effects Modeling. <i>Pharmaceutical Research</i> , 2013, 30, 1423-1434.	1.7	3
100	Oligopeptide Transport at the Blood-Brain and Blood-CSF Barriers. , 2006, , 1423-1428.		3
101	Oligopeptide and Peptide-Like Drug Transport. , 2013, , 1688-1695.		1
102	Carnosine uptake in rat choroid plexus primary cell cultures and choroid plexus whole tissue from PEPT2 null mice. <i>Journal of Neurochemistry</i> , 2004, 91, 1024-1024.	2.1	0