Ernest M Wright

List of Publications by Year in Descending Order

127 papers	10,261 citations	53 h-index	100 g-index
140 ext. papers	11,218 ext. citations	6.3 avg, IF	6.31 L-index

#	Paper	IF	Citations
127	The Molecular Basis of Glucose Galactose Malabsorption in a Large Swedish Pedigree. *Function*, **2021**, 2, zqab040	6.1	1
126	SGLT2 Inhibitors: Physiology and Pharmacology.. *Kidney360*, **2021**, 2, 2027-2037	1.8	0
125	Regulation of Neutral Amino Acid Transport By the SARS-CoV-2 Receptor ACE2. *Function*, **2021**, 2, zqab048	6.1	0
124	Sugar Transport Across Epithelia. *Physiology in Health and Disease*, **2020**, 211-254	0.2	1
123	A Frog Model for CSF Secretion. *Physiology in Health and Disease*, **2020**, 83-97	0.2	1
122	SGLT2 and cancer. *Pflugers Archiv European Journal of Physiology*, **2020**, 472, 1407-1414	4.6	10
121	Intestinal absorption of glucose in mice as determined by positron emission tomography. *Journal of Physiology*, **2018**, 596, 2473-2489	3.9	12
120	Positron emission tomography of sodium glucose cotransport activity in high grade astrocytomas. *Journal of Neuro-Oncology*, **2018**, 138, 557-569	4.8	19
119	Conformational transitions of the sodium-dependent sugar transporter, vSGLT. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, E2742-E2751	11.5	14
118	Physiology of renal glucose handling via SGLT1, SGLT2 and GLUT2. *Diabetologia*, **2018**, 61, 2087-2097	10.3	113
117	Sugar Absorption **2018**, 1051-1062		0
116	Inhibitor binding mode and allosteric regulation of Na-glucose symporters. *Nature Communications*, **2018**, 9, 5245	17.4	19
115	Novel and Unexpected Functions of SGLTs. *Physiology*, **2017**, 32, 435-443	9.8	28
114	Active site voltage clamp fluorometry of the sodium glucose cotransporter hSGLT1. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, E9980-E9988	11.5	10
113	Dapagliflozin Binds Specifically to Sodium-Glucose Cotransporter 2 in the Proximal Renal Tubule. *Journal of the American Society of Nephrology: JASN*, **2017**, 28, 802-810	12.7	35
112	Structural and functional significance of water permeation through cotransporters. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E6887-E6894	11.5	29
111	Stochastic steps in secondary active sugar transport. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, E3960-6	11.5	27

110	Revisiting the physiological roles of SGLTs and GLUTs using positron emission tomography in mice. *Journal of Physiology*, **2016**, 594, 4425-38	3.9	46
109	Functional expression of sodium-glucose transporters in cancer. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, E4111-9	11.5	149
108	Probing SGLT2 as a therapeutic target for diabetes: basic physiology and consequences. *Diabetes and Vascular Disease Research*, **2015**, 12, 78-89	3.3	214
107	Structural determinants of water permeation through the sodium-galactose transporter vSGLT. *Biophysical Journal*, **2014**, 106, 1280-9	2.9	22
106	Fingerprints of hSGLT5 sugar and cation selectivity. *American Journal of Physiology - Cell Physiology*, **2014**, 306, C864-70	5.4	4
105	SGLT2 inhibitors act from the extracellular surface of the cell membrane. *Physiological Reports*, **2014**, 2, e12058	2.6	36
104	Regional distribution of SGLT activity in rat brain in vivo. *American Journal of Physiology - Cell Physiology*, **2013**, 304, C240-7	5.4	66
103	Glucose transport families SLC5 and SLC50. *Molecular Aspects of Medicine*, **2013**, 34, 183-96	16.7	174
102	Glucose Reabsorption in The Kidney **2013**, 2393-2404		4
101	Functional identification and characterization of sodium binding sites in Na symporters. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, E4557-66	11.5	30
100	The importance of being aromatic: interactions in sodium symporters. *Biochemistry*, **2012**, 51, 9480-7	3.2	15
99	Structural selectivity of human SGLT inhibitors. *American Journal of Physiology - Cell Physiology*, **2012**, 302, C373-82	5.4	61
98	Regulation of the human Na+-dependent glucose cotransporter hSGLT2. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C348-54	5.4	87
97	Bridging the gap between structure and kinetics of human SGLT1. *American Journal of Physiology - Cell Physiology*, **2012**, 302, C1293-305	5.4	44
96	Sugar Absorption **2012**, 1583-1593		7
95	Searching for the Na1 site of hSGLT1. *FASEB Journal*, **2012**, 26, 694.13	0.9	
94	Biology of human sodium glucose transporters. *Physiological Reviews*, **2011**, 91, 733-94	47.9	870
93	Glucose transport by human renal Na+/D-glucose cotransporters SGLT1 and SGLT2. *American Journal of Physiology - Cell Physiology*, **2011**, 300, C14-21	5.4	178

92	The mechanism of sodium and substrate release from the binding pocket of vSGLT. *Nature*, **2010**, 468, 988-91	50.4	155
91	Functional expression of SGLTs in rat brain. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C1277-84	5.4	74
90	Water permeation through the sodium-dependent galactose cotransporter vSGLT. *Biophysical Journal*, **2010**, 99, L56-8	2.9	36
89	Trans effects of Na + and glucose on Na+/glucose co-transport. *FASEB Journal*, **2010**, 24, 1014.3	0.9	
88	Structure and function of Na(+)-symporters with inverted repeats. *Current Opinion in Structural Biology*, **2009**, 19, 425-32	8.1	169
87	Renal sodium-glucose transport: role in diabetes mellitus and potential clinical implications. *Kidney International*, **2009**, 75, 1272-1277	9.9	227
86	Diseases of Renal Glucose Handling **2009**, 131-140		3
85	The crystal structure of a sodium galactose transporter reveals mechanistic insights into Na+/sugar symport. *Science*, **2008**, 321, 810-4	33.3	434
84	Molecular mechanism of dipeptide and drug transport by the human renal H+/oligopeptide cotransporter hPEPT2. *American Journal of Physiology - Renal Physiology*, **2008**, 294, F1422-32	4.3	23
83	How drugs interact with transporters: SGLT1 as a model. *Journal of Membrane Biology*, **2008**, 223, 87-106	2.3	17
82	Sodium-dependent reorganization of the sugar-binding site of SGLT1. *Biochemistry*, **2007**, 46, 13391-406	3.2	36
81	Imino sugars are potent agonists of the human glucose sensor SGLT3. *Molecular Pharmacology*, **2007**, 71, 628-34	4.3	52
80	Imino sugars potently activate the human glucose senor SGLT3. *FASEB Journal*, **2007**, 21, A530	0.9	
79	Conformational dynamics of hSGLT1 during Na+/glucose cotransport. *Journal of General Physiology*, **2006**, 128, 701-20	3.4	46
78	Sugar Absorption **2006**, 1653-1665		10
77	A reinvestigation of the secondary structure of functionally active vSGLT, the vibrio sodium/galactose cotransporter. *Biochemistry*, **2006**, 45, 1470-9	3.2	17
76	Molecular interactions between dipeptides, drugs and the human intestinal H+ -oligopeptide cotransporter hPEPT1. *Journal of Physiology*, **2006**, 574, 149-66	3.9	58
75	Perturbation analysis of the voltage-sensitive conformational changes of the Na+/glucose cotransporter. *Journal of General Physiology*, **2005**, 125, 13-36	3.4	36

74	Surprising versatility of Na+-glucose cotransporters: SLC5. *Physiology*, **2004**, 19, 370-6	9.8	126
73	The sodium/glucose cotransport family SLC5. *Pflugers Archiv European Journal of Physiology*, **2004**, 447, 510-8	4.6	216
72	Coupled sodium/glucose cotransport by SGLT1 requires a negative charge at position 454. *Biochemistry*, **2004**, 43, 13175-84	3.2	20
71	Local conformational changes in the Vibrio Na+/galactose cotransporter. *Biochemistry*, **2004**, 43, 3620-7	3.2	16
70	Intestinal absorption in health and disease--sugars. *Baillieris Best Practice and Research in Clinical Gastroenterology*, **2003**, 17, 943-56	2.5	167
69	Functional asymmetry of the human Na+/glucose transporter (hSGLT1) in bacterial membrane vesicles. *Biochemistry*, **2003**, 42, 9147-52	3.2	29
68	Structure of functional single AQP0 channels in phospholipid membranes. *Journal of Molecular Biology*, **2003**, 325, 201-10	6.5	21
67	A glucose sensor hiding in a family of transporters. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 11753-8	11.5	262
66	Electrophysiological properties of the mouse Na+/Cl(-)-dependent taurine transporter (mTauT-1): steady-state kinetics: stoichiometry of taurine transport. *Advances in Experimental Medicine and Biology*, **2003**, 526, 197-204	3.6	4
65	Water pumps. *Journal of Physiology*, **2002**, 542, 53-60	3.9	147
64	Molecular basis for glucose-galactose malabsorption. *Cell Biochemistry and Biophysics*, **2002**, 36, 115-21	3.2	90
63	Employing Escherichia coli to functionally express, purify, and characterize a human transporter. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 8597-601	11.5	58
62	Fluorescence studies of ligand-induced conformational changes of the Na(+)/glucose cotransporter. *Biochemistry*, **2002**, 41, 1250-8	3.2	61
61	Ligand-induced differences in secondary structure of the Vibrio parahaemolyticus Na+/galactose cotransporter. *Biochemistry*, **2002**, 41, 8082-6	3.2	9
60	A Kinetic Model for Secondary Active Transport. *The IMA Volumes in Mathematics and Its Applications*, **2002**, 65-83	0.5	3
59	Common mechanisms of inhibition for the Na+/glucose (hSGLT1) and Na+/Cl-/GABA (hGAT1) cotransporters. *British Journal of Pharmacology*, **2001**, 134, 484-95	8.6	51
58	Mapping the urea channel through the rabbit Na(+)-glucose cotransporter SGLT1. *Journal of Physiology*, **2001**, 535, 419-25	3.9	20
57	Residue 457 controls sugar binding and transport in the Na(+)/glucose cotransporter. *Journal of Biological Chemistry*, **2001**, 276, 49188-94	5.4	74

56	Neutralization of a conserved amino acid residue in the human Na+/glucose transporter (hSGLT1) generates a glucose-gated H+ channel. *Journal of Biological Chemistry*, **2001**, 276, 1728-34	5.4	56
55	Evidence for the involvement of Ala 166 in coupling Na(+) to sugar transport through the human Na(+)/glucose cotransporter. *Biochemistry*, **2001**, 40, 11897-904	3.2	22
54	Na+-to-sugar stoichiometry of SGLT3. *American Journal of Physiology - Renal Physiology*, **2001**, 280, F278-83	4.3	36
53	Renal Na(+)-glucose cotransporters. *American Journal of Physiology - Renal Physiology*, **2001**, 280, F10-8	4.3	419
52	Coupling between Na+, sugar, and water transport across the intestine. *Annals of the New York Academy of Sciences*, **2000**, 915, 54-66	6.5	71
51	Chapter 13 Molecular aspects of intestinal brush-border Na+/glucose transport. *Current Topics in Membranes*, **2000**, 50, 499-516	2.2	5
50	Urea transport by cotransporters. *Journal of Physiology*, **2000**, 528 Pt 2, 251-7	3.9	57
49	Water transport by the renal Na(+)-dicarboxylate cotransporter. *American Journal of Physiology - Renal Physiology*, **2000**, 278, F777-83	4.3	38
48	Regulation of the human Na(+)-glucose cotransporter gene, SGLT1, by HNF-1 and Sp1. *American Journal of Physiology - Renal Physiology*, **2000**, 278, G591-603	5.1	57
47	Role of Cl- in electrogenic Na+-coupled cotransporters GAT1 and SGLT1. *Journal of Biological Chemistry*, **2000**, 275, 37414-22	5.4	94
46	Molecular characterization of Vibrio parahaemolyticus vSGLT: a model for sodium-coupled sugar cotransporters. *Journal of Biological Chemistry*, **2000**, 275, 25711-6	5.4	77
45	Characterization of the Vibrio parahaemolyticus Na+/Glucose cotransporter. A bacterial member of the sodium/glucose transporter (SGLT) family. *Journal of Biological Chemistry*, **2000**, 275, 25959-64	5.4	20
44	Proteomics on full-length membrane proteins using mass spectrometry. *Biochemistry*, **2000**, 39, 4237-42	3.2	96
43	Models for Isotonic Transport Across Apical Membranes of Epithelial Cells **2000**, 195-201		
42	Passive water and ion transport by cotransporters. *Journal of Physiology*, **1999**, 518, 195-202	3.9	110
41	Missense mutations in SGLT1 cause glucose-galactose malabsorption by trafficking defects. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **1999**, 1453, 297-303	6.9	46
40	Purification and functional reconstitution of a truncated human Na(+)/glucose cotransporter (SGLT1) expressed in E. coli. *FEBS Letters*, **1999**, 459, 386-90	3.8	26
39	Neutralization of conservative charged transmembrane residues in the Na+/glucose cotransporter SGLT1. *Biochemistry*, **1998**, 37, 10522-8	3.2	22

38	I. Glucose galactose malabsorption. *American Journal of Physiology - Renal Physiology*, **1998**, 275, G879-82	5.1	48
37	Five transmembrane helices form the sugar pathway through the Na+/glucose cotransporter. *Journal of Biological Chemistry*, **1997**, 272, 20324-7	5.4	70
36	Thyroid Na+/I- symporter. Mechanism, stoichiometry, and specificity. *Journal of Biological Chemistry* , **1997**, 272, 27230-8	5.4	331
35	Cation effects on protein conformation and transport in the Na+/glucose cotransporter. *Journal of Biological Chemistry*, **1997**, 272, 2110-5	5.4	60
34	Water transport by the Na+/glucose cotransporter under isotonic conditions Proceedings of a meeting held in Paris, 27–30 April, 1997, as a tribute to Jacques Bourguet.*. *Biology of the Cell*, **1997**, 89, 307-312	3.5	41
33	Regulation of the mouse retinal taurine transporter (TAUT) by protein kinases in Xenopus oocytes. *FEBS Letters*, **1996**, 392, 250-4	3.8	43
32	Sodium cotransporters. *Current Opinion in Cell Biology*, **1996**, 8, 468-73	9	60
31	Sugar binding to Na+/glucose cotransporters is determined by the carboxyl-terminal half of the protein. *Journal of Biological Chemistry*, **1996**, 271, 10029-34	5.4	79
30	Prenatal identification of a heterozygous status in two fetuses at risk for glucose-galactose malabsorption. *Prenatal Diagnosis*, **1996**, 16, 458-62	3.2	9
29	Defects in Na+/glucose cotransporter (SGLT1) trafficking and function cause glucose-galactose malabsorption. *Nature Genetics*, **1996**, 12, 216-20	36.3	222
28	Mechanisms of the human intestinal H+-coupled oligopeptide transporter hPEPT1. *Journal of Biological Chemistry*, **1996**, 271, 5430-7	5.4	116
27	Biophysical characteristics of the pig kidney Na+/glucose cotransporter SGLT2 reveal a common mechanism for SGLT1 and SGLT2. *Journal of Biological Chemistry*, **1996**, 271, 32678-83	5.4	95
26	Membrane topology of the human Na+/glucose cotransporter SGLT1. *Journal of Biological Chemistry*, **1996**, 271, 1925-34	5.4	139
25	Regulation of Na+/glucose cotransporter expression by protein kinases in Xenopus laevis oocytes. *Journal of Biological Chemistry*, **1996**, 271, 14740-6	5.4	150
24	Kinetics of steady-state currents and charge movements associated with the rat Na+/glucose cotransporter. *Journal of Biological Chemistry*, **1995**, 270, 27099-105	5.4	135
23	Arginine-427 in the Na+/glucose cotransporter (SGLT1) is involved in trafficking to the plasma membrane. *FEBS Letters*, **1995**, 377, 181-4	3.8	30
22	Assignment of the human Na+/glucose cotransporter gene SGLT1 to chromosome 22q13.1. *Genomics*, **1993**, 17, 752-4	4.3	16
21	Glycosylation of the rabbit intestinal brush border Na+/glucose cotransporter. *Biochimica Et Biophysica Acta - Biomembranes*, **1992**, 1103, 37-44	3.8	46

20	Baculovirus-mediated expression of the Na+/glucose cotransporter in Sf9 cells. *Biochimica Et Biophysica Acta - Biomembranes*, **1992**, 1104, 151-9	3.8	34
19	Voltage-clamp studies of the Na+/glucose cotransporter cloned from rabbit small intestine. *Pflugers Archiv European Journal of Physiology*, **1991**, 418, 79-85	4.6	54
18	Biosynthesis of the cloned intestinal Na+/glucose cotransporter. *Biochimica Et Biophysica Acta - Biomembranes*, **1991**, 1064, 360-4	3.8	50
17	Distribution of the SGLT1 Na+/glucose cotransporter and mRNA along the crypt-villus axis of rabbit small intestine. *Biochemical and Biophysical Research Communications*, **1991**, 181, 1208-17	3.4	101
16	Expression and characterization of the intestinal Na+/glucose cotransporter in COS-7 cells. *Biochimica Et Biophysica Acta Gene Regulatory Mechanisms*, **1990**, 1048, 100-4		41
15	Characterization of a Na+/glucose cotransporter cloned from rabbit small intestine. *Journal of Membrane Biology*, **1989**, 110, 87-95	2.3	147
14	Assignment of the human intestinal Na+/glucose cotransporter gene (SGLT1) to the q11.2----qter region of chromosome 22. *Genomics*, **1989**, 4, 297-300	4.3	52
13	Molecular biology of Na+/glucose cotransport. *Biochemical Society Transactions*, **1989**, 17, 810-1	5.1	6
12	Examination of the Na+-induced conformational change of the intestinal brush border sodium/glucose symporter using fluorescent probes. *Biochemistry*, **1987**, 26, 4272-9	3.2	16
11	Expression cloning and cDNA sequencing of the Na+/glucose co-transporter. *Nature*, **1987**, 330, 379-81	50.4	937
10	Kinetics of sodium D-glucose cotransport in bovine intestinal brush border vesicles. *Journal of Membrane Biology*, **1984**, 79, 41-51	2.3	91
9	Ion permeability of rabbit intestinal brush border membrane vesicles. *Journal of Membrane Biology*, **1984**, 78, 119-27	2.3	47
8	Na+, Li+, and Cl- transport by brush border membranes from rabbit jejunum. *Journal of Membrane Biology*, **1983**, 74, 85-94	2.3	71
7	Specificity of the Na+-dependent monocarboxylic acid transport pathway in rabbit renal brush border membranes. *Journal of Membrane Biology*, **1983**, 72, 213-21	2.3	46
6	Transport properties of intestinal basolateral membranes. *Annals of the New York Academy of Sciences*, **1981**, 372, 626-36	6.5	11
5	Sugar uptake by intestinal basolateral membrane vesicles. *Biochimica Et Biophysica Acta - Biomembranes*, **1980**, 597, 112-24	3.8	71
4	Preparative scale isolation of basal-lateral plasma membranes from rat intestinal epithelial cells. *Membrane Biochemistry*, **1978**, 1, 177-85		14
3	Effect of temperature on nonelectrolyte permeation across the toad urinary bladder. *Journal of Membrane Biology*, **1976**, 29, 265-88	2.3	63

2	Thermodynamic analysis of nonelectrolyte permeation across the toad urinary bladder. *Journal of Membrane Biology*, **1976**, 29, 289-312	2.3	28
1	Disorders of Epithelial Transport in the Small Intestine1259-1283		