Geoffrey D Holman

List of Publications by Year
in descending order

63 papers	3,178 citations	159585 30 h-index	155660 55 g-index
63 all docs	63 docs citations	63 times ranked	3503 citing authors

#	Article	IF	Citations
1	Emerging role for AS160/TBC1D4 and TBC1D1 in the regulation of GLUT4 traffic. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E29-E37.	3.5	366
2	Bloodâ€"Brain Barrier Glucose Transporter. Journal of Neurochemistry, 1999, 72, 238-247.	3.9	269
3	5-Amino-Imidazole Carboxamide Riboside Increases Glucose Transport and Cell-Surface GLUT4 Content in Skeletal Muscle From Subjects With Type 2 Diabetes. Diabetes, 2003, 52, 1066-1072.	0.6	214
4	The causal role of breakfast in energy balance and health: a randomized controlled trial in obese adults. American Journal of Clinical Nutrition, 2016, 103, 747-756.	4.7	170
5	The causal role of breakfast in energy balance and health: a randomized controlled trial in lean adults. American Journal of Clinical Nutrition, 2014, 100, 539-547.	4.7	166
6	Subcellular localization and trafficking of the GLUT4 glucose transporter isoform in insulin-responsive cells. BioEssays, 1994, 16, 753-759.	2.5	132
7	Phosphatidylinositol 3-kinase acts at an intracellular membrane site to enhance GLUT4 exocytosis in 3T3-L1 cells. Biochemical Journal, 1996, 313, 125-131.	3.7	108
8	Insulin and Contraction Stimulate Exocytosis, but Increased AMP-activated Protein Kinase Activity Resulting from Oxidative Metabolism Stress Slows Endocytosis of GLUT4 in Cardiomyocytes. Journal of Biological Chemistry, 2005, 280, 4070-4078.	3.4	101
9	Structure, function and regulation of mammalian glucose transporters of the SLC2 family. Pflugers Archiv European Journal of Physiology, 2020, 472, 1155-1175.	2.8	100
10	Insulin signaling meets vesicle traffic of GLUT4 at a plasma-membrane-activated fusion step. Cell Metabolism, 2005, 2, 179-189.	16.2	89
11	Moving the insulin-regulated glucose transporter GLUT4 into and out of storage. Trends in Cell Biology, 2001, 11, 173-179.	7.9	83
12	Long-Term Metformin Treatment Stimulates Cardiomyocyte Glucose Transport through an AMP-Activated Protein Kinase-Dependent Reduction in GLUT4 Endocytosis. Endocrinology, 2006, 147, 2728-2736.	2.8	82
13	Distinct Reading of Different Structural Determinants Modulates the Dileucine-mediated Transport Steps of the Lysosomal Membrane Protein LIMPII and the Insulin-sensitive Glucose Transporter GLUT4. Journal of Biological Chemistry, 2000, 275, 39874-39885.	3.4	76
14	Deletion of Both Rab-GTPaseâ€"Activating Proteins TBC1D1 and TBC1D4 in Mice Eliminates Insulin- and AICAR-Stimulated Glucose Transport. Diabetes, 2015, 64, 746-759.	0.6	69
15	Identification of SNAP receptors in rat adipose cell membrane fractions and in SNARE complexes co-immunoprecipitated with epitope-tagged <i>N</i>-ethylmaleimide-sensitive fusion protein. Biochemical Journal, 1996, 320, 429-436.	3.7	68
16	Kinetic Evidence for Unique Regulation of GLUT4 Trafficking by Insulin and AMP-activated Protein Kinase Activators in L6 Myotubes. Journal of Biological Chemistry, 2010, 285, 1653-1660.	3.4	67
17	Contraction-stimulated muscle glucose transport and GLUT-4 surface content are dependent on glycogen content. American Journal of Physiology - Endocrinology and Metabolism, 1999, 277, E1103-E1110.	3.5	58
18	Chronic insulin effects on insulin signalling and GLUT4 endocytosis are reversed by metformin. Biochemical Journal, 2000, 348, 83-91.	3.7	58

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19	Development of high-affinity ligands and photoaffinity labels for the d-fructose transporter GLUT5. Biochemical Journal, 2002, 367, 533-539.	3.7	57
20	Kinetics of GLUT4 Trafficking in Rat and Human Skeletal Muscle. Diabetes, 2009, 58, 847-854.	0.6	57
21	Proteomic Analysis of GLUT4 Storage Vesicles Reveals Tumor Suppressor Candidate 5 (TUSC5) as a Novel Regulator of Insulin Action in Adipocytes. Journal of Biological Chemistry, 2015, 290, 23528-23542.	3.4	50
22	Synthesis and evaluation of fructose analogues as inhibitors of the d -fructose transporter GLUT5. Bioorganic and Medicinal Chemistry, 2000, 8, 1825-1833.	3.0	48
23	Synthesis of biotinylated bis(d-glucose) derivatives for glucose transporter photoaffinity labelling. Carbohydrate Research, 2001, 331, 119-127.	2.3	48
24	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. Journal of Cell Science, 2009, 122, 727-734.	2.0	44
25	In vitro analysis of the glucose-transport system in GLUT4-null skeletal muscle. Biochemical Journal, 1999, 342, 321-328.	3.7	43
26	FGT-1 is the major glucose transporter in <i>C. elegans</i> and is central to aging pathways. Biochemical Journal, 2013, 456, 219-229.	3.7	43
27	Cell-Surface Recognition of Biotinylated Membrane Proteins Requires Very Long Spacer Arms: An Example from Glucose-Transporter Probes. ChemBioChem, 2001, 2, 52-59.	2.6	42
28	Highly Potent and Isoform Selective Dual Site Binding Tankyrase/Wnt Signaling Inhibitors That Increase Cellular Glucose Uptake and Have Antiproliferative Activity. Journal of Medicinal Chemistry, 2017, 60, 814-820.	6.4	40
29	Thermal stability, storage and release of proteins with tailored fit in silica. Scientific Reports, 2017, 7, 46568.	3.3	36
30	Chemical biology probes of mammalian GLUT structure and function. Biochemical Journal, 2018, 475, 3511-3534.	3.7	36
31	Inhibition of the d-fructose transporter protein GLUT5 by fused-ring glyco-1,3-oxazolidin-2-thiones and -oxazolidin-2-ones. Carbohydrate Research, 2003, 338, 711-719.	2.3	35
32	Insulin and Isoproterenol Have Opposing Roles in the Maintenance of Cytosol pH and Optimal Fusion of GLUT4 Vesicles with the Plasma Membrane. Journal of Biological Chemistry, 2002, 277, 6559-6566.	3.4	29
33	AS160 Phosphotyrosine-binding Domain Constructs Inhibit Insulin-stimulated GLUT4 Vesicle Fusion with the Plasma Membrane. Journal of Biological Chemistry, 2011, 286, 16574-16582.	3.4	29
34	Insulin-stimulated cytosol alkalinization facilitates optimal activation of glucose transport in cardiomyocytes. American Journal of Physiology - Endocrinology and Metabolism, 2002, 283, E1299-E1307.	3.5	26
35	Subcellular trafficking kinetics of GLU4 mutated at the N- and C-terminal. Biochemical Journal, 1996, 315, 153-159.	3.7	21
36	Sugar transport in Trypanosoma brucei : a suitable kinetic probe. FEBS Letters, 1986, 194, 126-130.	2.8	20

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37	GLUT4 Traffic through an ESCRT-III-Dependent Sorting Compartment in Adipocytes. PLoS ONE, 2012, 7, e44141.	2.5	20
38	Synthesis of novel bis(d-mannose) compounds. Carbohydrate Research, 1985, 135, 337-341.	2.3	19
39	Molecular adaptations of adipose tissue to 6Âweeks of morning fasting vs. daily breakfast consumption in lean and obese adults. Journal of Physiology, 2018, 596, 609-622.	2.9	18
40	Rab28 is a TBC1D1/TBC1D4 substrate involved in GLUT4 trafficking. FEBS Letters, 2017, 591, 88-96.	2.8	17
41	GLUT4 On the move. Biochemical Journal, 2022, 479, 445-462.	3.7	16
42	Insulin regulates Rab3â€“Noc2 complex dissociation to promote GLUT4 translocation in rat adipocytes. Diabetologia, 2015, 58, 1877-1886.	6.3	15
43	Synthesis of symmetrical 4,4â€²- and 6,6â€²- bis(D-glucose)-based probes as tools for the study of D-glucose transport proteins. Tetrahedron Letters, 1999, 40, 5861-5864.	1.4	14
44	Thrifty Tbc1d1 and Tbc1d4 proteins link signalling and membrane trafficking pathways. Biochemical Journal, 2007, 403, e9-11.	3.7	14
45	Side-specific photolabeiling of the hexose transporter. Biochemical Society Transactions, 1989, 17, 438-440.	3.4	12
46	Characterization of glucose transport in the hyperthermophilic Archaeon Sulfolobus solfataricus. FEBS Letters, 1996, 387, 193-195.	2.8	9
47	Insulin-sensitive regulation of glucose transport and GLUT4 translocation in skeletal muscle of GLUT1 transgenic mice. Biochemical Journal, 1999, 337, 51-57.	3.7	9
48	Regulating the Motor for GLUT4 Vesicle Traffic. Cell Metabolism, 2008, 8, 344-346.	16.2	8
49	Sugar transport in <i>Trypanosoma brucei</i>. Biochemical Society Transactions, 1987, 15, 1073-1073.	3.4	6
50	Regulated exocytosis: A new deadly Syn?. Current Biology, 1999, 9, R735-R737.	3.9	6
51	Î±2-Adrenoceptors controlling intestinal secretion. Biochemical Society Transactions, 1981, 9, 413-414.	3.4	5
52	The Use of Biotinylaton in the Detection and Purification of Affinity Labelled GLUT-1. Biochemical Society Transactions, 1996, 24, 115S-115S.	3.4	4
53	Cell-surface labelling of glucose transporters in rat adipocytes. Biochemical Society Transactions, 1990, 18, 945-946.	3.4	2
54	A common trafficking route for GLUT4 in cardiomyocytes in response to insulin, contraction and energy-status signalling. Journal of Cell Science, 2009, 122, 1054-1054.	2.0	2

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55	Cell surface biotinylation of GLUT4. Biochemical Society Transactions, 1997, 25, 470S-470S.	3.4	1
56	In situ labelling of insulin stimulated GTP-binding proteins in adipocytes. Biochemical Society Transactions, 1997, 25, 475S-475S.	3.4	1
57	Î±-Adrenergic agonists and enterotoxins. Biochemical Society Transactions, 1984, 12, 208-211.	3.4	0
58	A series of bis-mannosyl-compounds for investigation of sugar-transport systems. Biochemical Society Transactions, 1985, 13, 254-254.	3.4	0
59	The role of citrate in oral rehydration therapy. Biochemical Society Transactions, 1987, 15, 913-914.	3.4	0
60	Alterted GLUT4 subcellular trafficking in primary cultures of rat adipocytes. Biochemical Society Transactions, 1997, 25, 469S-469S.	3.4	0
61	The Association of the Adaptor Complexes AP1 and AP3 with GLUT4 Vesicles: Implications for GLUT4 Compartmentalisation. Biochemical Society Transactions, 1999, 27, A100-A100.	3.4	0
62	Identification of Insulin-Activated Rab Proteins in Adipose Cells Using Bio-ATB-GTP Photolabeling Technique. Methods in Molecular Biology, 2018, 1713, 137-150.	0.9	0
63	Use of Hexose Photolabels to Reveal the Structure and Function of Glucose Transporters. , 2017, , 183-196.		0