David E James

List of Publications by Year
in descending order

#	Article	IF	Citations
1	Personalized phosphoproteomics identifies functional signaling. Nature Biotechnology, 2022, 40, 576-584.	9.4	44
2	Structural insights into Ras regulation by SIN1. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2119990119.	3.3	14
3	Trafficking regulator of GLUT4-1 (TRARG1) is a GSK3 substrate. Biochemical Journal, 2022, 479, 1237-1256.	1.7	11
4	PhosR enables processing and functional analysis of phosphoproteomic data. Cell Reports, 2021, 34, 108771.	2.9	48
5	Signaling Heterogeneity is Defined by Pathway Architecture and Intercellular Variability in Protein Expression. IScience, 2021, 24, 102118.	1.9	19
6	The aetiology and molecular landscape of insulin resistance. Nature Reviews Molecular Cell Biology, 2021, 22, 751-771.	16.1	221
7	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. ELife, 2021, 10, .	2.8	21
8	Dynamic modelling of the PI3K/MTOR signalling network uncovers biphasic dependence of mTORC1 activity on the mTORC2 subunit SIN1. PLoS Computational Biology, 2021, 17, e1008513.	1.5	14
9	Growth Factor-Dependent and -Independent Activation of mTORC2. Trends in Endocrinology and Metabolism, 2020, 31, 13-24.	3.1	31
10	Kinetic Trans-omic Analysis Reveals Key Regulatory Mechanisms for Insulin-Regulated Glucose Metabolism in Adipocytes. IScience, 2020, 23, 101479.	1.9	17
11	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. Journal of Biological Chemistry, 2020, 295, 13250-13266.	1.6	31
12	Dynamic 13C Flux Analysis Captures the Reorganization of Adipocyte Glucose Metabolism in Response to Insulin. IScience, 2020, 23, 100855.	1.9	24
13	Muscle and adipose tissue insulin resistance: malady without mechanism?. Journal of Lipid Research, 2019, 60, 1720-1732.	2.0	91
14	Serine 474 phosphorylation is essential for maximal Akt2 kinase activity in adipocytes. Journal of Biological Chemistry, 2019, 294, 16729-16739.	1.6	32
15	Illuminating the dark phosphoproteome. Science Signaling, 2019, 12, .	1.6	219
16	Thirty sweet years of GLUT4. Journal of Biological Chemistry, 2019, 294, 11369-11381.	1.6	223
17	ABHD15 regulates adipose tissue lipolysis and hepatic lipid accumulation. Molecular Metabolism, 2019, 25, 83-94.	3.0	22
18	Reduced insulin action in muscle of high fat diet rats over the diurnal cycle is not associated with defective insulin signaling. Molecular Metabolism, 2019, 25, 107-118.	3.0	11

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19	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. Nature Communications, 2019, 10, 5486.	5.8	89
20	RagC phosphorylation autoregulates <scp>mTOR</scp> complex 1. EMBO Journal, 2019, 38, .	3.5	26
21	High dietary fat and sucrose result in an extensive and time-dependent deterioration in health of multiple physiological systems in mice. Journal of Biological Chemistry, 2018, 293, 5731-5745.	1.6	65
22	Mitochondrial oxidative stress causes insulin resistance without disrupting oxidative phosphorylation. Journal of Biological Chemistry, 2018, 293, 7315-7328.	1.6	110
23	Glucose Transport: Methods for Interrogating GLUT4 Trafficking in Adipocytes. Methods in Molecular Biology, 2018, 1713, 193-215.	0.4	6
24	High-throughput and high-sensitivity phosphoproteomics with the EasyPhos platform. Nature Protocols, 2018, 13, 1897-1916.	5.5	238
25	Membrane Topology of Trafficking Regulator of GLUT4 1 (TRARG1). Biochemistry, 2018, 57, 3606-3615.	1.2	4
26	The amino acid transporter, <scp>SLC</scp>1A3, is plasma membraneâ€localised in adipocytes and its activity is insensitive to insulin. FEBS Letters, 2017, 591, 322-330.	1.3	16
27	Improved Akt reporter reveals intra- and inter-cellular heterogeneity and oscillations in signal transduction. Journal of Cell Science, 2017, 130, 2757-2766.	1.2	15
28	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. Cell Reports, 2017, 21, 3536-3547.	2.9	55
29	Positive-unlabeled ensemble learning for kinase substrate prediction from dynamic phosphoproteomics data. Bioinformatics, 2016, 32, 252-259.	1.8	34
30	KinasePA: Phosphoproteomics data annotation using hypothesis driven kinase perturbation analysis. Proteomics, 2016, 16, 1868-1871.	1.3	27
31	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. Cell Reports, 2016, 17, 29-36.	2.9	88
32	Hyperactivation of the Insulin Signaling Pathway Improves Intracellular Proteostasis by Coordinately Up-regulating the Proteostatic Machinery in Adipocytes. Journal of Biological Chemistry, 2016, 291, 25629-25640.	1.6	15
33	Unraveling Kinase Activation Dynamics Using Kinase-Substrate Relationships from Temporal Large-Scale Phosphoproteomics Studies. PLoS ONE, 2016, 11, e0157763.	1.1	14
34	An Actin Filament Population Defined by the Tropomyosin Tpm3.1 Regulates Glucose Uptake. Traffic, 2015, 16, 691-711.	1.3	61
35	Targeted phosphoproteomics of insulin signaling using data-independent acquisition mass spectrometry. Science Signaling, 2015, 8, rs6.	1.6	53
36	Selective Insulin Resistance in Adipocytes. Journal of Biological Chemistry, 2015, 290, 11337-11348.	1.6	85

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37	SnapShot: Insulin/IGF1 Signaling. Cell, 2015, 161, 948-948.e1.	13.5	19
38	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. Cell Metabolism, 2015, 22, 922-935.	7.2	333
39	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.	1.6	50
40	Protein Phosphorylation: A Major Switch Mechanism for Metabolic Regulation. Trends in Endocrinology and Metabolism, 2015, 26, 676-687.	3.1	402
41	PhosphOrtholog: a web-based tool for cross-species mapping of orthologous protein post-translational modifications. BMC Genomics, 2015, 16, 617.	1.2	20
42	A Positive Feedback Loop between Akt and mTORC2 via SIN1 Phosphorylation. Cell Reports, 2015, 12, 937-943.	2.9	232
43	Kinome Screen Identifies PFKFB3 and Glucose Metabolism as Important Regulators of the Insulin/Insulin-like Growth Factor (IGF)-1 Signaling Pathway. Journal of Biological Chemistry, 2015, 290, 25834-25846.	1.6	50
44	Identification of fatty acid binding protein 4 as an adipokine that regulates insulin secretion during obesity. Molecular Metabolism, 2014, 3, 465-473.	3.0	96
45	Direction pathway analysis of large-scale proteomics data reveals novel features of the insulin action pathway. Bioinformatics, 2014, 30, 808-814.	1.8	29
46	DOC2 isoforms play dual roles in insulin secretion and insulin-stimulated glucose uptake. Diabetologia, 2014, 57, 2173-2182.	2.9	30
47	Impaired Akt phosphorylation in insulin-resistant human muscle is accompanied by selective and heterogeneous downstream defects. Diabetologia, 2013, 56, 875-885.	2.9	81
48	Dynamic Adipocyte Phosphoproteome Reveals that Akt Directly Regulates mTORC2. Cell Metabolism, 2013, 17, 1009-1020.	7.2	352
49	Comparative studies of Munc18c and Munc18-1 reveal conserved and divergent mechanisms of Sec1/Munc18 proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E3271-80.	3.3	69
50	Novel Systems for Dynamically Assessing Insulin Action in Live Cells Reveals Heterogeneity in the Insulin Response. Traffic, 2013, 14, 259-273.	1.3	27
51	Uncaging Akt. Science Signaling, 2012, 5, pe20.	1.6	15
52	<scp>TBC1D13</scp> is a <scp>RAB35</scp> Specific <scp>GAP</scp> that Plays an Important Role in <scp>GLUT4</scp> Trafficking in Adipocytes. Traffic, 2012, 13, 1429-1441.	1.3	42
53	GLUT4 exocytosis. Journal of Cell Science, 2011, 124, 4147-4159.	1.2	233
54	Quantitative Proteomic Analysis of the Adipocyte Plasma Membrane. Journal of Proteome Research, 2011, 10, 4970-4982.	1.8	29

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55	Next-generation Akt inhibitors provide greater specificity: effects on glucose metabolism in adipocytes. Biochemical Journal, 2011, 435, 539-544.	1.7	50
56	Mapping Insulin/GLUT4 Circuitry. Traffic, 2011, 12, 672-681.	1.3	128
57	Macrophage infiltration and cytokine release in adipose tissue: angiogenesis or inflammation?. Diabetology International, 2010, 1, 26-34.	0.7	1
58	Global Phosphoproteomics Identifies a Major Role for AKT and 14-3-3 in Regulating EDC3. Molecular and Cellular Proteomics, 2010, 9, 682-694.	2.5	37
59	Cluster Analysis of Insulin Action in Adipocytes Reveals a Key Role for Akt at the Plasma Membrane. Journal of Biological Chemistry, 2010, 285, 2245-2257.	1.6	45
60	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.	1.6	67
61	Identification of a Distal GLUT4 Trafficking Event Controlled by Actin Polymerization. Molecular Biology of the Cell, 2009, 20, 3918-3929.	0.9	69
62	Variations in the requirement for v-SNAREs in GLUT4 trafficking in adipocytes. Journal of Cell Science, 2009, 122, 3472-3480.	1.2	69
63	Pigment Epithelium-Derived Factor Contributes to Insulin Resistance in Obesity. Cell Metabolism, 2009, 10, 40-47.	7.2	159
64	Towards fully automated identification of vesicle-membrane fusion events in TIRF microscopy. International Journal of Computer Aided Engineering and Technology, 2009, 1, 502.	0.1	5
65	Studies of regional adipose transplantation reveal a unique and beneficial interaction between subcutaneous adipose tissue and the intra-abdominal compartment. Diabetologia, 2008, 51, 900-902.	2.9	72
66	Rapid Activation of Akt2 Is Sufficient to Stimulate GLUT4 Translocation in 3T3-L1 Adipocytes. Cell Metabolism, 2008, 7, 348-356.	7.2	159
67	IRS1-Independent Defects Define Major Nodes of Insulin Resistance. Cell Metabolism, 2008, 7, 421-433.	7.2	266
68	CaMKII-Mediated Phosphorylation of the Myosin Motor Myo1c Is Required for Insulin-Stimulated GLUT4 Translocation in Adipocytes. Cell Metabolism, 2008, 8, 384-398.	7.2	95
69	Snapin Interacts with the Exo70 Subunit of the Exocyst and Modulates GLUT4 Trafficking. Journal of Biological Chemistry, 2008, 283, 324-331.	1.6	46
70	The GLUT4 Code. Molecular Endocrinology, 2008, 22, 226-233.	3.7	79
71	Regulation of Glucose Transporter 4 Translocation by the Rab Guanosine Triphosphatase-Activating Protein AS160/TBC1D4: Role of Phosphorylation and Membrane Association. Molecular Endocrinology, 2008, 22, 2703-2715.	3.7	56
72	The Role of Phosphoinositide 3-Kinase C2Î± in Insulin Signaling. Journal of Biological Chemistry, 2007, 282, 28226-28236.	1.6	136

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73	Dissecting Multiple Steps of GLUT4 Trafficking and Identifying the Sites of Insulin Action. Cell Metabolism, 2007, 5, 47-57.	7.2	183
74	A Role for 14-3-3 in Insulin-stimulated GLUT4 Translocation through Its Interaction with the RabGAP AS160. Journal of Biological Chemistry, 2006, 281, 29174-29180.	1.6	185
75	Akt Activation Is Required at a Late Stage of Insulin-Induced GLUT4 Translocation to the Plasma Membrane. Molecular Endocrinology, 2005, 19, 1067-1077.	3.7	93
76	Characterization of the Role of the Rab GTPase-activating Protein AS160 in Insulin-regulated GLUT4 Trafficking. Journal of Biological Chemistry, 2005, 280, 37803-37813.	1.6	330
77	MUNC-ing around with insulin action. Journal of Clinical Investigation, 2005, 115, 219-221.	3.9	15
78	Insulin Increases Cell Surface GLUT4 Levels by Dose Dependently Discharging GLUT4 into a Cell Surface Recycling Pathway. Molecular and Cellular Biology, 2004, 24, 6456-6466.	1.1	203
79	GLUT4 Recycles via atrans-Golgi Network (TGN) Subdomain Enriched in Syntaxins 6 and 16 But Not TGN38: Involvement of an Acidic Targeting Motif. Molecular Biology of the Cell, 2003, 14, 973-986.	0.9	192
80	Regulated transport of the glucose transporter GLUT4. Nature Reviews Molecular Cell Biology, 2002, 3, 267-277.	16.1	1,008
81	The cytosolic C-terminus of the glucose transporter GLUT4 contains an acidic cluster endosomal targeting motif distal to the dileucine signal. Biochemical Journal, 2000, 350, 99-107.	1.7	84
82	Insulin Recruits GLUT4 from Specialized VAMP2-carrying Vesicles as well as from the Dynamic Endosomal/Trans-Golgi Network in Rat Adipocytes.. Molecular Biology of the Cell, 2000, 11, 4079-4091.	0.9	68
83	GLUT4 trafficking in insulin-sensitive cells. Cell Biochemistry and Biophysics, 1999, 30, 89-113.	0.9	26
84	Vesicle-associated Membrane Protein 2 Plays a Specific Role in the Insulin-dependent Trafficking of the Facilitative Glucose Transporter GLUT4 in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 1998, 273, 1444-1452.	1.6	132
85	Syndet, an Adipocyte Target SNARE Involved in the Insulin-induced Translocation of GLUT4 to the Cell Surface. Journal of Biological Chemistry, 1998, 273, 18784-18792.	1.6	100
86	Characterization of Munc-18c and Syntaxin-4 in 3T3-L1 Adipocytes. Journal of Biological Chemistry, 1997, 272, 6179-6186.	1.6	188
87	Insulin-regulatable tissues express a unique insulin-sensitive glucose transport protein. Nature, 1988, 333, 183-185.	13.7	613