

# Sean J Humphrey

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

45  
papers

2,430  
citations

21  
h-index

49  
g-index

55  
ext. papers

3,386  
ext. citations

13.5  
avg, IF

5.43  
L-index

#	Paper	IF	Citations
45	Personalized phosphoproteomics identifies functional signaling. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	8
44	Phosphoproteome and Proteome Sample Preparation from Mouse Tissues for Circadian Analysis. <i>Methods in Molecular Biology</i> , <b>2021</b> , 2130, 185-193	1.4	
43	A TOR (target of rapamycin) and nutritional phosphoproteome of fission yeast reveals novel targets in networks conserved in humans. <i>Open Biology</i> , <b>2021</b> , 11, 200405	7	1
42	TSC-insensitive Rheb mutations induce oncogenic transformation through a combination of constitutively active mTORC1 signalling and proteome remodelling. <i>Cellular and Molecular Life Sciences</i> , <b>2021</b> , 78, 4035-4052	10.3	0
41	BET inhibition blocks inflammation-induced cardiac dysfunction and SARS-CoV-2 infection. <i>Cell</i> , <b>2021</b> , 184, 2167-2182.e22	56.2	43
40	Global phosphoproteomics reveals DYRK1A regulates CDK1 activity in glioblastoma cells. <i>Cell Death Discovery</i> , <b>2021</b> , 7, 81	6.9	8
39	A Two-Dimensional Metallacycle Cross-Linked Switchable Polymer for Fast and Highly Efficient Phosphorylated Peptide Enrichment. <i>Journal of the American Chemical Society</i> , <b>2021</b> , 143, 8295-8304	16.4	4
38	Akt phosphorylates insulin receptor substrate to limit PI3K-mediated PIP3 synthesis. <i>ELife</i> , <b>2021</b> , 10,	8.9	2
37	PhosR enables processing and functional analysis of phosphoproteomic data. <i>Cell Reports</i> , <b>2021</b> , 34, 108770	16	7
36	MaxDIA enables library-based and library-free data-independent acquisition proteomics. <i>Nature Biotechnology</i> , <b>2021</b> ,	44.5	24
35	Proteomic pathways to metabolic disease and type 2 diabetes in the pancreatic islet. <i>IScience</i> , <b>2021</b> , 24, 103099	6.1	1
34	Transcriptional network dynamics during the progression of pluripotency revealed by integrative statistical learning. <i>Nucleic Acids Research</i> , <b>2020</b> , 48, 1828-1842	20.1	6
33	Insulin signaling requires glucose to promote lipid anabolism in adipocytes. <i>Journal of Biological Chemistry</i> , <b>2020</b> , 295, 13250-13266	5.4	11
32	Illuminating the dark phosphoproteome. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	125
31	ABHD15 regulates adipose tissue lipolysis and hepatic lipid accumulation. <i>Molecular Metabolism</i> , <b>2019</b> , 25, 83-94	8.8	13
30	Multi-omic Profiling Reveals Dynamics of the Phased Progression of Pluripotency. <i>Cell Systems</i> , <b>2019</b> , 8, 427-445.e10	10.6	50
29	Proteomic Analysis of Human Plasma during Intermittent Fasting. <i>Journal of Proteome Research</i> , <b>2019</b> , 18, 2228-2240	5.6	29

28	Phosphoproteomics Reveals the GSK3-PDX1 Axis as a Key Pathogenic Signaling Node in Diabetic Islets. <i>Cell Metabolism</i> , <b>2019</b> , 29, 1422-1432.e3	24.6	29
27	Phosphoproteomics of Acute Cell Stressors Targeting Exercise Signaling Networks Reveal Drug Interactions Regulating Protein Secretion. <i>Cell Reports</i> , <b>2019</b> , 29, 1524-1538.e6	10.6	11
26	Insulin Tolerance Test under Anaesthesia to Measure Tissue-specific Insulin-stimulated Glucose Disposal. <i>Bio-protocol</i> , <b>2019</b> , 9, e3146	0.9	4
25	Global redox proteome and phosphoproteome analysis reveals redox switch in Akt. <i>Nature Communications</i> , <b>2019</b> , 10, 5486	17.4	36
24	RagC phosphorylation autoregulates mTOR complex 1. <i>EMBO Journal</i> , <b>2019</b> , 38,	13	12
23	In vivo brain GPCR signaling elucidated by phosphoproteomics. <i>Science</i> , <b>2018</b> , 360,	33.3	82
22	High-throughput and high-sensitivity phosphoproteomics with the EasyPhos platform. <i>Nature Protocols</i> , <b>2018</b> , 13, 1897-1916	18.8	116
21	Mitochondrial CoQ deficiency is a common driver of mitochondrial oxidants and insulin resistance. <i>ELife</i> , <b>2018</b> , 7,	8.9	61
20	The amino acid transporter, SLC1A3, is plasma membrane-localised in adipocytes and its activity is insensitive to insulin. <i>FEBS Letters</i> , <b>2017</b> , 591, 322-330	3.8	7
19	Phosphorylation Is a Central Mechanism for Circadian Control of Metabolism and Physiology. <i>Cell Metabolism</i> , <b>2017</b> , 25, 118-127	24.6	200
18	Dynamic Metabolomics Reveals that Insulin Primes the Adipocyte for Glucose Metabolism. <i>Cell Reports</i> , <b>2017</b> , 21, 3536-3547	10.6	34
17	Positive-unlabeled ensemble learning for kinase substrate prediction from dynamic phosphoproteomics data. <i>Bioinformatics</i> , <b>2016</b> , 32, 252-9	7.2	17
16	Glucose-regulated and drug-perturbed phosphoproteome reveals molecular mechanisms controlling insulin secretion. <i>Nature Communications</i> , <b>2016</b> , 7, 13250	17.4	53
15	Hyperactivation of the Insulin Signaling Pathway Improves Intracellular Proteostasis by Coordinately Up-regulating the Proteostatic Machinery in Adipocytes. <i>Journal of Biological Chemistry</i> , <b>2016</b> , 291, 25629-25640	5.4	10
14	KinasePA: Phosphoproteomics data annotation using hypothesis driven kinase perturbation analysis. <i>Proteomics</i> , <b>2016</b> , 16, 1868-71	4.8	14
13	Mechanism of Regulation of Intrachromatid Recombination and Long-Range Chromosome Interactions in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , <b>2016</b> , 36, 1451-63	4.8	6
12	mTORC1 Is a Major Regulatory Node in the FGF21 Signaling Network in Adipocytes. <i>Cell Reports</i> , <b>2016</b> , 17, 29-36	10.6	59
11	Global Phosphoproteomic Analysis of Human Skeletal Muscle Reveals a Network of Exercise-Regulated Kinases and AMPK Substrates. <i>Cell Metabolism</i> , <b>2015</b> , 22, 922-35	24.6	233

10	Protein Phosphorylation: A Major Switch Mechanism for Metabolic Regulation. <i>Trends in Endocrinology and Metabolism</i> , <b>2015</b> , 26, 676-687	8.8	249
9	PhosphOrtholog: a web-based tool for cross-species mapping of orthologous protein post-translational modifications. <i>BMC Genomics</i> , <b>2015</b> , 16, 617	4.5	18
8	A Positive Feedback Loop between Akt and mTORC2 via SIN1 Phosphorylation. <i>Cell Reports</i> , <b>2015</b> , 12, 937-43	10.6	183
7	High-throughput phosphoproteomics reveals in vivo insulin signaling dynamics. <i>Nature Biotechnology</i> , <b>2015</b> , 33, 990-5	44.5	297
6	Targeted phosphoproteomics of insulin signaling using data-independent acquisition mass spectrometry. <i>Science Signaling</i> , <b>2015</b> , 8, rs6	8.8	43
5	Dynamic adipocyte phosphoproteome reveals that Akt directly regulates mTORC2. <i>Cell Metabolism</i> , <b>2013</b> , 17, 1009-1020	24.6	269
4	TBC1D13 is a RAB35 specific GAP that plays an important role in GLUT4 trafficking in adipocytes. <i>Traffic</i> , <b>2012</b> , 13, 1429-41	5.7	32
3	Re-fraction: a machine learning approach for deterministic identification of protein homologues and splice variants in large-scale MS-based proteomics. <i>Journal of Proteome Research</i> , <b>2012</b> , 11, 3035-45	5.6	6
2	Uncaging akt. <i>Science Signaling</i> , <b>2012</b> , 5, pe20	8.8	14
1	Bromodomain and Extraterminal Inhibition Blocks Inflammation-Induced Cardiac Dysfunction and SARS-CoV-2 Infection (Pre-Clinical)		1