

# Jesse Rinehart

## List of Publications by Year in descending order

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Version: 2024-02-01

57  
papers

4,656  
citations

185998

28  
h-index

155451

55  
g-index

59  
all docs

59  
docs citations

59  
times ranked

6113  
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomically Recoded Organisms Expand Biological Functions. <i>Science</i> , 2013, 342, 357-360.	6.0	721
2	The PINK1-PARKIN Mitochondrial Ubiquitylation Pathway Drives a Program of OPTN/NDP52 Recruitment and TBK1 Activation to Promote Mitophagy. <i>Molecular Cell</i> , 2015, 60, 7-20.	4.5	658
3	Expanding the Genetic Code of <i>Escherichia coli</i> with Phosphoserine. <i>Science</i> , 2011, 333, 1151-1154.	6.0	316
4	Recoded organisms engineered to depend on synthetic amino acids. <i>Nature</i> , 2015, 518, 89-93.	13.7	288
5	Sites of Regulated Phosphorylation that Control K-Cl Cotransporter Activity. <i>Cell</i> , 2009, 138, 525-536.	13.5	269
6	Defining roles of PARKIN and ubiquitin phosphorylation by PINK1 in mitochondrial quality control using a ubiquitin replacement strategy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 6637-6642.	3.3	240
7	Evolution of translation machinery in recoded bacteria enables multi-site incorporation of nonstandard amino acids. <i>Nature Biotechnology</i> , 2015, 33, 1272-1279.	9.4	234
8	Insulin receptor Thr1160 phosphorylation mediates lipid-induced hepatic insulin resistance. <i>Journal of Clinical Investigation</i> , 2016, 126, 4361-4371.	3.9	173
9	WNK3 kinase is a positive regulator of NKCC2 and NCC, renal cation-Cl <sup>-</sup> cotransporters required for normal blood pressure homeostasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 16777-16782.	3.3	167
10	Robust production of recombinant phosphoproteins using cell-free protein synthesis. <i>Nature Communications</i> , 2015, 6, 8168.	5.8	106
11	Protein Aggregation Caused by Aminoglycoside Action Is Prevented by a Hydrogen Peroxide Scavenger. <i>Molecular Cell</i> , 2012, 48, 713-722.	4.5	98
12	Enhanced phosphoserine insertion during <i>Escherichia coli</i> protein synthesis via partial UAG codon reassignment and release factor 1 deletion. <i>FEBS Letters</i> , 2012, 586, 3716-3722.	1.3	91
13	A flexible codon in genomically recoded <i>Escherichia coli</i> permits programmable protein phosphorylation. <i>Nature Communications</i> , 2015, 6, 8130.	5.8	86
14	A Membrane-Bound Diacylglycerol Species Induces PKC $\beta$ -Mediated Hepatic Insulin Resistance. <i>Cell Metabolism</i> , 2020, 32, 654-664.e5.	7.2	83
15	WNK2 Kinase Is a Novel Regulator of Essential Neuronal Cation-Chloride Cotransporters. <i>Journal of Biological Chemistry</i> , 2011, 286, 30171-30180.	1.6	73
16	The polycystins are modulated by cellular oxygen-sensing pathways and regulate mitochondrial function. <i>Molecular Biology of the Cell</i> , 2017, 28, 261-269.	0.9	73
17	Chemical Evolution of a Bacterial Proteome. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 10030-10034.	7.2	71
18	Revealing the amino acid composition of proteins within an expanded genetic code. <i>Nucleic Acids Research</i> , 2015, 43, e8-e8.	6.5	68

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19	The ABCs of PTMs. <i>Nature Chemical Biology</i> , 2018, 14, 188-192.	3.9	67
20	Hyperosmotic stress alters the RNA polymerase II interactome and induces readthrough transcription despite widespread transcriptional repression. <i>Molecular Cell</i> , 2021, 81, 502-513.e4.	4.5	61
21	PKC $\mu$ contributes to lipid-induced insulin resistance through cross talk with p70S6K and through previously unknown regulators of insulin signaling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E8996-E9005.	3.3	51
22	Src Family Protein Tyrosine Kinase Regulates the Basolateral K Channel in the Distal Convoluted Tubule (DCT) by Phosphorylation of KCNJ10 Protein. <i>Journal of Biological Chemistry</i> , 2013, 288, 26135-26146.	1.6	47
23	Phosphorylation by PKC and PKA regulate the kinase activity and downstream signaling of WNK4. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E879-E886.	3.3	47
24	SPAK and OSR1 play essential roles in potassium homeostasis through actions on the distal convoluted tubule. <i>Journal of Physiology</i> , 2016, 594, 4945-4966.	1.3	43
25	Comprehensive profiling of the STE20 kinase family defines features essential for selective substrate targeting and signaling output. <i>PLoS Biology</i> , 2019, 17, e2006540.	2.6	41
26	Multi-Tissue Acceleration of the Mitochondrial Phosphoenolpyruvate Cycle Improves Whole-Body Metabolic Health. <i>Cell Metabolism</i> , 2020, 32, 751-766.e11.	7.2	41
27	Heterogeneity of Stop Codon Readthrough in Single Bacterial Cells and Implications for Population Fitness. <i>Molecular Cell</i> , 2017, 67, 826-836.e5.	4.5	40
28	MS-READ: Quantitative measurement of amino acid incorporation. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2017, 1861, 3081-3088.	1.1	35
29	Encoding human serine phosphopeptides in bacteria for proteome-wide identification of phosphorylation-dependent interactions. <i>Nature Biotechnology</i> , 2018, 36, 638-644.	9.4	30
30	Editing of misaminoacylated tRNA controls the sensitivity of amino acid stress responses in <i>Saccharomyces cerevisiae</i> . <i>Nucleic Acids Research</i> , 2017, 45, 3985-3996.	6.5	29
31	Comparative Proteomics Enables Identification of Nonannotated Cold Shock Proteins in <i>E. coli</i> . <i>Journal of Proteome Research</i> , 2017, 16, 3722-3731.	1.8	23
32	Targeting Pyruvate Kinase M2 Phosphorylation Reverses Aggressive Cancer Phenotypes. <i>Cancer Research</i> , 2021, 81, 4346-4359.	0.4	22
33	The mechanism of $\hat{2}$ -N-methylamino-l-alanine inhibition of tRNA aminoacylation and its impact on misincorporation. <i>Journal of Biological Chemistry</i> , 2020, 295, 1402-1410.	1.6	21
34	Designed Phosphoprotein Recognition in <i>Escherichia coli</i> . <i>ACS Chemical Biology</i> , 2014, 9, 2502-2507.	1.6	20
35	Src-family protein tyrosine kinase phosphorylates WNK4 and modulates its inhibitory effect on KCNJ1 (ROMK). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4495-4500.	3.3	20
36	Alanyl-tRNA Synthetase Quality Control Prevents Global Dysregulation of the <i>Escherichia coli</i> Proteome. <i>MBio</i> , 2019, 10, .	1.8	20

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37	Metabolic stress promotes stop-codon readthrough and phenotypic heterogeneity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22167-22172.	3.3	19
38	Genome mining unearths a hybrid nonribosomal peptide synthetase-like-pteridine synthase biosynthetic gene cluster. ELife, 2017, 6, .	2.8	18
39	Determinants of erythrocyte hydration. Current Opinion in Hematology, 2010, 17, 1.	1.2	17
40	Kinase Substrate Profiling Using a Proteome-wide Serine-Oriented Human Peptide Library. Biochemistry, 2018, 57, 4717-4725.	1.2	16
41	Organisms with alternative genetic codes resolve unassigned codons via mistranslation and ribosomal rescue. ELife, 2018, 7, .	2.8	16
42	YPED: An Integrated Bioinformatics Suite and Database for Mass Spectrometry-based Proteomics Research. Genomics, Proteomics and Bioinformatics, 2015, 13, 25-35.	3.0	15
43	Convergent Identification and Interrogation of Tumor-Intrinsic Factors that Modulate Cancer Immunity In Vivo. Cell Systems, 2019, 8, 136-151.e7.	2.9	14
44	Reducing the genetic code induces massive rearrangement of the proteome. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 17206-17211.	3.3	13
45	The mechanism of $\hat{2}$ -N-methylamino-l-alanine inhibition of tRNA aminoacylation and its impact on misincorporation. Journal of Biological Chemistry, 2020, 295, 1402-1410.	1.6	12
46	Distinct Hepatic PKA and CDK Signaling Pathways Control Activity-Independent Pyruvate Kinase Phosphorylation and Hepatic Glucose Production. Cell Reports, 2019, 29, 3394-3404.e9.	2.9	8
47	Considering the Links Between Nonalcoholic Fatty Liver Disease and Insulin Resistance: Revisiting the Role of Protein Kinase C $\mu$ . Hepatology, 2019, 70, 2217-2220.	3.6	6
48	Mechanisms involved in AMPK-mediated deposition of tight junction components to the plasma membrane. American Journal of Physiology - Cell Physiology, 2020, 318, C486-C501.	2.1	5
49	Deacylated tRNA Accumulation Is a Trigger for Bacterial Antibiotic Persistence Independent of the Stringent Response. MBio, 2021, 12, e0113221.	1.8	5
50	Phosphorylated WNK kinase networks in recoded bacteria recapitulate physiological function. Cell Reports, 2021, 36, 109416.	2.9	5
51	Comprehensive Analysis of Metabolic Isozyme Targets in Cancer. Cancer Research, 2022, 82, 1698-1711.	0.4	4
52	Expression of authentic post-translationally modified proteins in organisms with expanded genetic codes. Methods in Enzymology, 2019, 626, 539-559.	0.4	3
53	Expression of Recombinant Phosphoproteins for Signal Transduction Studies. Methods in Molecular Biology, 2017, 1636, 71-78.	0.4	3
54	The NEDD8 E3 ligase DCNL5 is phosphorylated by IKK alpha during Toll-like receptor activation. PLoS ONE, 2018, 13, e0199197.	1.1	2

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55	Chemoselective restoration of para-azido-phenylalanine at multiple sites in proteins. Cell Chemical Biology, 2022, 29, 1046-1052.e4.	2.5	2
56	Src-family tyrosine kinase (SFK) phosphorylates Withá€Noá€Lysine Kinase4 (WNK4) and modulates the inhibitory effect of WNK4 on ROMK channels.. FASEB Journal, 2013, 27, 911.2.	0.2	0
57	Src-family protein tyrosine kinase (SFK) stimulates KCNJ10 K channels in the basolateral membrane of distal convoluted tubules (DCT).. FASEB Journal, 2013, 27, 911.1.	0.2	0