

John M Asara

List of Publications by Year in descending order

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Version: 2024-02-01

171
papers

24,519
citations

13865

67
h-index

7950

149
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205
all docs

205
docs citations

205
times ranked

40366
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphorylation of ULK1 (hATG1) by AMP-Activated Protein Kinase Connects Energy Sensing to Mitophagy. <i>Science</i> , 2011, 331, 456-461.	12.6	2,107
2	Oncogenic Kras Maintains Pancreatic Tumors through Regulation of Anabolic Glucose Metabolism. <i>Cell</i> , 2012, 149, 656-670.	28.9	1,587
3	Glutamine supports pancreatic cancer growth through a KRAS-regulated metabolic pathway. <i>Nature</i> , 2013, 496, 101-105.	27.8	1,562
4	PGC-1 β mediates mitochondrial biogenesis and oxidative phosphorylation in cancer cells to promote metastasis. <i>Nature Cell Biology</i> , 2014, 16, 992-1003.	10.3	1,073
5	Oncogene ablation-resistant pancreatic cancer cells depend on mitochondrial function. <i>Nature</i> , 2014, 514, 628-632.	27.8	998
6	A positive/negative ion-switching, targeted mass spectrometry-based metabolomics platform for bodily fluids, cells, and fresh and fixed tissue. <i>Nature Protocols</i> , 2012, 7, 872-881.	12.0	863
7	Pancreatic stellate cells support tumour metabolism through autophagic alanine secretion. <i>Nature</i> , 2016, 536, 479-483.	27.8	843
8	Vitamin C selectively kills <i>KRAS</i> and <i>BRAF</i> mutant colorectal cancer cells by targeting GAPDH. <i>Science</i> , 2015, 350, 1391-1396.	12.6	722
9	An inhibitor of oxidative phosphorylation exploits cancer vulnerability. <i>Nature Medicine</i> , 2018, 24, 1036-1046.	30.7	622
10	Stimulation of de Novo Pyrimidine Synthesis by Growth Signaling Through mTOR and S6K1. <i>Science</i> , 2013, 339, 1323-1328.	12.6	596
11	mTORC1 induces purine synthesis through control of the mitochondrial tetrahydrofolate cycle. <i>Science</i> , 2016, 351, 728-733.	12.6	585
12	NRF2 regulates serine biosynthesis in non-small cell lung cancer. <i>Nature Genetics</i> , 2015, 47, 1475-1481.	21.4	579
13	Small Molecule Inhibition of the Autophagy Kinase ULK1 and Identification of ULK1 Substrates. <i>Molecular Cell</i> , 2015, 59, 285-297.	9.7	561
14	MUC1 and HIF-1 α Signaling Crosstalk Induces Anabolic Glucose Metabolism to Impart Gemcitabine Resistance to Pancreatic Cancer. <i>Cancer Cell</i> , 2017, 32, 71-87.e7.	16.8	373
15	Harmonizing lipidomics: NIST interlaboratory comparison exercise for lipidomics using SRM 1950 Metabolites in Frozen Human Plasma. <i>Journal of Lipid Research</i> , 2017, 58, 2275-2288.	4.2	312
16	Targeted deletion of PD-1 in myeloid cells induces antitumor immunity. <i>Science Immunology</i> , 2020, 5, .	11.9	287
17	Cell-cycle-regulated activation of Akt kinase by phosphorylation at its carboxyl terminus. <i>Nature</i> , 2014, 508, 541-545.	27.8	285
18	LIN28 Regulates Stem Cell Metabolism and Conversion to Primed Pluripotency. <i>Cell Stem Cell</i> , 2016, 19, 66-80.	11.1	278

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19	Protein Sequences from Mastodon and Tyrannosaurus Rex Revealed by Mass Spectrometry. <i>Science</i> , 2007, 316, 280-285.	12.6	273
20	The Circadian Protein BMAL1 Regulates Translation in Response to S6K1-Mediated Phosphorylation. <i>Cell</i> , 2015, 161, 1138-1151.	28.9	270
21	Energy Stress Regulates Hippo-YAP Signaling Involving AMPK-Mediated Regulation of Angiotensin-like 1 Protein. <i>Cell Reports</i> , 2014, 9, 495-503.	6.4	244
22	Transaminase Inhibition by 2-Hydroxyglutarate Impairs Glutamate Biosynthesis and Redox Homeostasis in Glioma. <i>Cell</i> , 2018, 175, 101-116.e25.	28.9	234
23	Perfusion decellularization of human and porcine lungs: Bringing the matrix to clinical scale. <i>Journal of Heart and Lung Transplantation</i> , 2014, 33, 298-308.	0.6	229
24	An aberrant SREBP-dependent lipogenic program promotes metastatic prostate cancer. <i>Nature Genetics</i> , 2018, 50, 206-218.	21.4	229
25	Metformin and phenformin deplete tricarboxylic acid cycle and glycolytic intermediates during cell transformation and NTPs in cancer stem cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 10574-10579.	7.1	227
26	A label-free quantification method by MS/MS TIC compared to SILAC and spectral counting in a proteomics screen. <i>Proteomics</i> , 2008, 8, 994-999.	2.2	211
27	Systemic Organ Wasting Induced by Localized Expression of the Secreted Insulin/IGF Antagonist ImpL2. <i>Developmental Cell</i> , 2015, 33, 36-46.	7.0	209
28	Glutathione biosynthesis is a metabolic vulnerability in PI(3)K/Akt-driven breast cancer. <i>Nature Cell Biology</i> , 2016, 18, 572-578.	10.3	197
29	The Histone H3 Methyltransferase G9A Epigenetically Activates the Serine-Glycine Synthesis Pathway to Sustain Cancer Cell Survival and Proliferation. <i>Cell Metabolism</i> , 2013, 18, 896-907.	16.2	194
30	Nicotinamide N-methyltransferase regulates hepatic nutrient metabolism through Sirt1 protein stabilization. <i>Nature Medicine</i> , 2015, 21, 887-894.	30.7	181
31	SPOP Promotes Ubiquitination and Degradation of the ERG Oncoprotein to Suppress Prostate Cancer Progression. <i>Molecular Cell</i> , 2015, 59, 917-930.	9.7	172
32	Oncogenic KRAS supports pancreatic cancer through regulation of nucleotide synthesis. <i>Nature Communications</i> , 2018, 9, 4945.	12.8	170
33	Yap reprograms glutamine metabolism to increase nucleotide biosynthesis and enable liver growth. <i>Nature Cell Biology</i> , 2016, 18, 886-896.	10.3	168
34	pVHL suppresses kinase activity of Akt in a proline-hydroxylation-dependent manner. <i>Science</i> , 2016, 353, 929-932.	12.6	165
35	Metabolic Signature Identifies Novel Targets for Drug Resistance in Multiple Myeloma. <i>Cancer Research</i> , 2015, 75, 2071-2082.	0.9	160
36	The mTORC1 Signaling Network Senses Changes in Cellular Purine Nucleotide Levels. <i>Cell Reports</i> , 2017, 21, 1331-1346.	6.4	149

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37	Epigenetic Reprogramming of Cancer-Associated Fibroblasts Deregulates Glucose Metabolism and Facilitates Progression of Breast Cancer. <i>Cell Reports</i> , 2020, 31, 107701.	6.4	149
38	Adaptive Reprogramming of <i>De Novo</i> Pyrimidine Synthesis Is a Metabolic Vulnerability in Triple-Negative Breast Cancer. <i>Cancer Discovery</i> , 2017, 7, 391-399.	9.4	147
39	Fatty acid synthesis is required for breast cancer brain metastasis. <i>Nature Cancer</i> , 2021, 2, 414-428.	13.2	147
40	A Cross-Species Analysis in Pancreatic Neuroendocrine Tumors Reveals Molecular Subtypes with Distinctive Clinical, Metastatic, Developmental, and Metabolic Characteristics. <i>Cancer Discovery</i> , 2015, 5, 1296-1313.	9.4	145
41	Phosphorylation of EZH2 by AMPK Suppresses PRC2 Methyltransferase Activity and Oncogenic Function. <i>Molecular Cell</i> , 2018, 69, 279-291.e5.	9.7	138
42	Gain of Glucose-Independent Growth upon Metastasis of Breast Cancer Cells to the Brain. <i>Cancer Research</i> , 2015, 75, 554-565.	0.9	133
43	GOT1 inhibition promotes pancreatic cancer cell death by ferroptosis. <i>Nature Communications</i> , 2021, 12, 4860.	12.8	131
44	Stromal cues regulate the pancreatic cancer epigenome and metabolome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 1129-1134.	7.1	125
45	A relative quantitative positive/negative ion switching method for untargeted lipidomics via high resolution LC-MS/MS from any biological source. <i>Metabolomics</i> , 2017, 13, 1.	3.0	124
46	Comprehensive metabolome analyses reveal N-acetylcysteine-responsive accumulation of kynurenine in systemic lupus erythematosus: implications for activation of the mechanistic target of rapamycin. <i>Metabolomics</i> , 2015, 11, 1157-1174.	3.0	123
47	Cabozantinib Eradicates Advanced Murine Prostate Cancer by Activating Antitumor Innate Immunity. <i>Cancer Discovery</i> , 2017, 7, 750-765.	9.4	112
48	A Secreted Tyrosine Kinase Acts in the Extracellular Environment. <i>Cell</i> , 2014, 158, 1033-1044.	28.9	111
49	O-GlcNAc Transferase Suppresses Inflammation and Necroptosis by Targeting Receptor-Interacting Serine/Threonine-Protein Kinase 3. <i>Immunity</i> , 2019, 50, 576-590.e6.	14.3	111
50	ZBTB7A acts as a tumor suppressor through the transcriptional repression of glycolysis. <i>Genes and Development</i> , 2014, 28, 1917-1928.	5.9	109
51	mTORC1 Couples Nucleotide Synthesis to Nucleotide Demand Resulting in a Targetable Metabolic Vulnerability. <i>Cancer Cell</i> , 2017, 32, 624-638.e5.	16.8	109
52	AKT methylation by SETDB1 promotes AKT kinase activity and oncogenic functions. <i>Nature Cell Biology</i> , 2019, 21, 226-237.	10.3	109
53	Ex vivo and in vivo stable isotope labelling of central carbon metabolism and related pathways with analysis by LC-MS/MS. <i>Nature Protocols</i> , 2019, 14, 313-330.	12.0	106
54	The mTORC1-mediated activation of ATF4 promotes protein and glutathione synthesis downstream of growth signals. <i>ELife</i> , 2021, 10, .	6.0	105

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55	PARK2 Depletion Connects Energy and Oxidative Stress to PI3K/Akt Activation via PTEN S-Nitrosylation. <i>Molecular Cell</i> , 2017, 65, 999-1013.e7.	9.7	103
56	LLGL2 rescues nutrient stress by promoting leucine uptake in ER+ breast cancer. <i>Nature</i> , 2019, 569, 275-279.	27.8	99
57	PTEN Regulates Glutamine Flux to Pyrimidine Synthesis and Sensitivity to Dihydroorotate Dehydrogenase Inhibition. <i>Cancer Discovery</i> , 2017, 7, 380-390.	9.4	94
58	KEAP1 loss modulates sensitivity to kinase targeted therapy in lung cancer. <i>ELife</i> , 2017, 6, .	6.0	92
59	Vulnerabilities of <i>PTEN</i> - <i>TP53</i> -Deficient Prostate Cancers to Compound PARPâ€“PI3K Inhibition. <i>Cancer Discovery</i> , 2014, 4, 896-904.	9.4	88
60	Myeloid-derived cullin 3 promotes STAT3 phosphorylation by inhibiting OGT expression and protects against intestinal inflammation. <i>Journal of Experimental Medicine</i> , 2017, 214, 1093-1109.	8.5	85
61	Direct stimulation of NAD ⁺ synthesis through Akt-mediated phosphorylation of NAD kinase. <i>Science</i> , 2019, 363, 1088-1092.	12.6	85
62	Phosphoinositide 3-Kinase Pathway Activation in Phosphate and Tensin Homolog (PTEN)-deficient Prostate Cancer Cells Is Independent of Receptor Tyrosine Kinases and Mediated by the p110 β and p110 δ Catalytic Subunits. <i>Journal of Biological Chemistry</i> , 2010, 285, 14980-14989.	3.4	82
63	Loss of RBF1 changes glutamine catabolism. <i>Genes and Development</i> , 2013, 27, 182-196.	5.9	81
64	O-GlcNAc Transferase Links Glucose Metabolism to MAVS-Mediated Antiviral Innate Immunity. <i>Cell Host and Microbe</i> , 2018, 24, 791-803.e6.	11.0	81
65	An Integrative Analysis of the InR/PI3K/Akt Network Identifies the Dynamic Response to Insulin Signaling. <i>Cell Reports</i> , 2016, 16, 3062-3074.	6.4	78
66	Tissue-specific down-regulation of S-adenosyl-homocysteine via suppression of dAhcyl1/dAhcyl2 extends health span and life span in <i>Drosophila</i> . <i>Genes and Development</i> , 2016, 30, 1409-1422.	5.9	77
67	mTORC1 stimulates cell growth through SAM synthesis and m6A mRNA-dependent control of protein synthesis. <i>Molecular Cell</i> , 2021, 81, 2076-2093.e9.	9.7	77
68	Phosphoinositide 3-kinase inhibitors induce DNA damage through nucleoside depletion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4338-47.	7.1	76
69	AMPK/ULK1-mediated phosphorylation of Parkin ACT domain mediates an early step in mitophagy. <i>Science Advances</i> , 2021, 7, .	10.3	74
70	Oncogenic PI3K promotes methionine dependency in breast cancer cells through the cystine-glutamate antiporter xCT. <i>Science Signaling</i> , 2017, 10, .	3.6	73
71	Yap regulates glucose utilization and sustains nucleotide synthesis to enable organ growth. <i>EMBO Journal</i> , 2018, 37, .	7.8	73
72	Tear metabolite changes in keratoconus. <i>Experimental Eye Research</i> , 2015, 132, 1-8.	2.6	71

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73	Stress from Nucleotide Depletion Activates the Transcriptional Regulator HEXIM1 to Suppress Melanoma. <i>Molecular Cell</i> , 2016, 62, 34-46.	9.7	71
74	Hypothalamic-Pituitary Axis Regulates Hydrogen Sulfide Production. <i>Cell Metabolism</i> , 2017, 25, 1320-1333.e5.	16.2	71
75	Metabolomic Profiling from Formalin-Fixed, Paraffin-Embedded Tumor Tissue Using Targeted LC/MS/MS: Application in Sarcoma. <i>PLoS ONE</i> , 2011, 6, e25357.	2.5	70
76	Cysteine dioxygenase 1 is a metabolic liability for non-small cell lung cancer. <i>ELife</i> , 2019, 8, .	6.0	69
77	Phosphatidylinositol-5-Phosphate 4-Kinases Regulate Cellular Lipid Metabolism By Facilitating Autophagy. <i>Molecular Cell</i> , 2018, 70, 531-544.e9.	9.7	68
78	The Lipid Kinase PI5P4K ² Is an Intracellular GTP Sensor for Metabolism and Tumorigenesis. <i>Molecular Cell</i> , 2016, 61, 187-198.	9.7	62
79	Comprehensive Mapping of Pluripotent Stem Cell Metabolism Using Dynamic Genome-Scale Network Modeling. <i>Cell Reports</i> , 2017, 21, 2965-2977.	6.4	61
80	Akt-Mediated Phosphorylation of XLF Impairs Non-Homologous End-Joining DNA Repair. <i>Molecular Cell</i> , 2015, 57, 648-661.	9.7	59
81	The IL-33-PIN1-IRAK-M axis is critical for type 2 immunity in IL-33-induced allergic airway inflammation. <i>Nature Communications</i> , 2018, 9, 1603.	12.8	58
82	miR-147b-mediated TCA cycle dysfunction and pseudohypoxia initiate drug tolerance to EGFR inhibitors in lung adenocarcinoma. <i>Nature Metabolism</i> , 2019, 1, 460-474.	11.9	57
83	Endocrine and Metabolic Pathways Linked to Keratoconus: Implications for the Role of Hormones in the Stromal Microenvironment. <i>Scientific Reports</i> , 2016, 6, 25534.	3.3	56
84	Inhibiting Oxidative Phosphorylation In Vivo Restrains Th17 Effector Responses and Ameliorates Murine Colitis. <i>Journal of Immunology</i> , 2017, 198, 2735-2746.	0.8	56
85	LATS suppresses mTORC1 activity to directly coordinate Hippo and mTORC1 pathways in growth control. <i>Nature Cell Biology</i> , 2020, 22, 246-256.	10.3	56
86	Ketamine's antidepressant effect is mediated by energy metabolism and antioxidant defense system. <i>Scientific Reports</i> , 2017, 7, 15788.	3.3	54
87	The TORC1-Regulated CPA Complex Rewires an RNA Processing Network to Drive Autophagy and Metabolic Reprogramming. <i>Cell Metabolism</i> , 2018, 27, 1040-1054.e8.	16.2	54
88	PTEN Methylation by NSD2 Controls Cellular Sensitivity to DNA Damage. <i>Cancer Discovery</i> , 2019, 9, 1306-1323.	9.4	54
89	Autophagy-Dependent Metabolic Reprogramming Sensitizes TSC2-Deficient Cells to the Antimetabolite 6-Aminonicotinamide. <i>Molecular Cancer Research</i> , 2014, 12, 48-57.	3.4	52
90	Impairment of gamma-glutamyl transferase 1 activity in the metabolic pathogenesis of chromophobe renal cell carcinoma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6274-E6282.	7.1	52

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91	Gross Cystic Disease Fluid Protein-15/Prolactin-Inducible Protein as a Biomarker for Keratoconus Disease. PLoS ONE, 2014, 9, e113310.	2.5	52
92	Skp2 dictates cell cycle-dependent metabolic oscillation between glycolysis and TCA cycle. Cell Research, 2021, 31, 80-93.	12.0	51
93	Proteomics of protein trafficking by in vivo tissue-specific labeling. Nature Communications, 2021, 12, 2382.	12.8	51
94	Selenoprotein H is an essential regulator of redox homeostasis that cooperates with p53 in development and tumorigenesis. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E5562-71.	7.1	49
95	p62/SQSTM1 Cooperates with Hyperactive mTORC1 to Regulate Glutathione Production, Maintain Mitochondrial Integrity, and Promote Tumorigenesis. Cancer Research, 2017, 77, 3255-3267.	0.9	49
96	mTORC1-chaperonin CCT signaling regulates m ⁶ A RNA methylation to suppress autophagy. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	49
97	Pathological glycogenesis through glycogen synthase 1 and suppression of excessive AMP kinase activity in myeloid leukemia cells. Leukemia, 2015, 29, 1555-1563.	7.2	48
98	TOX Regulates Growth, DNA Repair, and Genomic Instability in T-cell Acute Lymphoblastic Leukemia. Cancer Discovery, 2017, 7, 1336-1353.	9.4	48
99	Functional Genomics Reveals Synthetic Lethality between Phosphogluconate Dehydrogenase and Oxidative Phosphorylation. Cell Reports, 2019, 26, 469-482.e5.	6.4	47
100	Activation of <i>Vibrio cholerae</i> quorum sensing promotes survival of an arthropod host. Nature Microbiology, 2018, 3, 243-252.	13.3	46
101	The SCF ^{Î²} -TRCP E3 ubiquitin ligase complex targets Lipin1 for ubiquitination and degradation to promote hepatic lipogenesis. Science Signaling, 2017, 10, .	3.6	44
102	ERK2 Phosphorylates PFAS to Mediate Posttranslational Control of De Novo Purine Synthesis. Molecular Cell, 2020, 78, 1178-1191.e6.	9.7	44
103	Pre-operative exercise therapy triggers anti-inflammatory trained immunity of Kupffer cells through metabolic reprogramming. Nature Metabolism, 2021, 3, 843-858.	11.9	40
104	Behavioral extremes of trait anxiety in mice are characterized by distinct metabolic profiles. Journal of Psychiatric Research, 2014, 58, 115-122.	3.1	39
105	Prolyl Isomerase Pin1 Regulates Axon Guidance by Stabilizing CRMP2A Selectively in Distal Axons. Cell Reports, 2015, 13, 812-828.	6.4	39
106	PIK3CA mutant tumors depend on oxoglutarate dehydrogenase. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, E3434-E3443.	7.1	38
107	Inhibition of the polyamine synthesis enzyme ornithine decarboxylase sensitizes triple-negative breast cancer cells to cytotoxic chemotherapy. Journal of Biological Chemistry, 2020, 295, 6263-6277.	3.4	38
108	EGF-receptor specificity for phosphotyrosine-primed substrates provides signal integration with Src. Nature Structural and Molecular Biology, 2015, 22, 983-990.	8.2	36

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109	Purine and pyrimidine metabolism: Convergent evidence on chronic antidepressant treatment response in mice and humans. <i>Scientific Reports</i> , 2016, 6, 35317.	3.3	35
110	Selective Mitochondrial Targeting Exerts Anxiolytic Effects In Vivo. <i>Neuropsychopharmacology</i> , 2016, 41, 1751-1758.	5.4	35
111	Lysosomal cystine mobilization shapes the response of TORC1 and tissue growth to fasting. <i>Science</i> , 2022, 375, eabc4203.	12.6	35
112	PIP4k ¹³ is a substrate for mTORC1 that maintains basal mTORC1 signaling during starvation. <i>Science Signaling</i> , 2014, 7, ra104.	3.6	34
113	A Cross-Species Study of PI3K Protein-Protein Interactions Reveals the Direct Interaction of P85 and SHP2. <i>Scientific Reports</i> , 2016, 6, 20471.	3.3	34
114	Protein-tyrosine Kinase 6 Promotes Peripheral Adhesion Complex Formation and Cell Migration by Phosphorylating p130 CRK-associated Substrate*. <i>Journal of Biological Chemistry</i> , 2012, 287, 148-158.	3.4	33
115	<i>Listeria monocytogenes</i> upregulates mitochondrial calcium signalling to inhibit LC3-associated phagocytosis as a survival strategy. <i>Nature Microbiology</i> , 2021, 6, 366-379.	13.3	33
116	In-Gel Stable-Isotope Labeling (ISIL): A Strategy for Mass Spectrometry-Based Relative Quantification. <i>Journal of Proteome Research</i> , 2006, 5, 155-163.	3.7	32
117	Determining In Vivo Phosphorylation Sites Using Mass Spectrometry. <i>Current Protocols in Molecular Biology</i> , 2012, 98, Unit18.19.1-27.	2.9	27
118	Triomics Analysis of Imatinib-Treated Myeloma Cells Connects Kinase Inhibition to RNA Processing and Decreased Lipid Biosynthesis. <i>Analytical Chemistry</i> , 2015, 87, 10995-11006.	6.5	26
119	Torin2 Exploits Replication and Checkpoint Vulnerabilities to Cause Death of PI3K-Activated Triple-Negative Breast Cancer Cells. <i>Cell Systems</i> , 2020, 10, 66-81.e11.	6.2	26
120	High-Throughput Drug Screen Identifies Chelerythrine as a Selective Inducer of Death in a TSC2-null Setting. <i>Molecular Cancer Research</i> , 2015, 13, 50-62.	3.4	25
121	Sterol Regulatory Element Binding Protein Regulates the Expression and Metabolic Functions of Wild-Type and Oncogenic <i>IDH1</i> . <i>Molecular and Cellular Biology</i> , 2016, 36, 2384-2395.	2.3	25
122	Downregulation of the tyrosine degradation pathway extends <i>Drosophila</i> lifespan. <i>ELife</i> , 2020, 9, .	6.0	25
123	Purine nucleotide depletion prompts cell migration by stimulating the serine synthesis pathway. <i>Nature Communications</i> , 2022, 13, 2698.	12.8	25
124	Targeted metabolomics analysis of postoperative delirium. <i>Scientific Reports</i> , 2021, 11, 1521.	3.3	24
125	Tyrosine Kinase BMX Phosphorylates Phosphotyrosine-Primed Motif Mediating the Activation of Multiple Receptor Tyrosine Kinases. <i>Science Signaling</i> , 2013, 6, ra40.	3.6	21
126	Homozygous MTAP deletion in primary human glioblastoma is not associated with elevation of methylthioadenosine. <i>Nature Communications</i> , 2021, 12, 4228.	12.8	21

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127	Tumors with TSC mutations are sensitive to CDK7 inhibition through NRF2 and glutathione depletion. <i>Journal of Experimental Medicine</i> , 2019, 216, 2635-2652.	8.5	20
128	IMPDH inhibitors for antitumor therapy in tuberous sclerosis complex. <i>JCI Insight</i> , 2020, 5, .	5.0	20
129	Interplay between protein acetylation and ubiquitination controls MCL1 protein stability. <i>Cell Reports</i> , 2021, 37, 109988.	6.4	20
130	<i>Vibrio cholerae</i> ensures function of host proteins required for virulence through consumption of luminal methionine sulfoxide. <i>PLoS Pathogens</i> , 2017, 13, e1006428.	4.7	19
131	NADK is activated by oncogenic signaling to sustain pancreatic ductal adenocarcinoma. <i>Cell Reports</i> , 2021, 35, 109238.	6.4	19
132	Quercetin modulates keratoconus metabolism <i>in vitro</i> . <i>Cell Biochemistry and Function</i> , 2015, 33, 341-350.	2.9	18
133	Fluoxetine Treatment Rescues Energy Metabolism Pathway Alterations in a Posttraumatic Stress Disorder Mouse Model. <i>Molecular Neuropsychiatry</i> , 2016, 2, 46-59.	2.9	18
134	Metabolomics profiling reveals differential adaptation of major energy metabolism pathways associated with autophagy upon oxygen and glucose reduction. <i>Scientific Reports</i> , 2018, 8, 2337.	3.3	18
135	Rapamycin-induced miR-21 promotes mitochondrial homeostasis and adaptation in mTORC1 activated cells. <i>Oncotarget</i> , 2017, 8, 64714-64727.	1.8	18
136	NextGen Brain Microdialysis: Applying Modern Metabolomics Technology to the Analysis of Extracellular Fluid in the Central Nervous System. <i>Molecular Neuropsychiatry</i> , 2015, 1, 60-67.	2.9	16
137	Phosphoric Metabolites Link Phosphate Import and Polysaccharide Biosynthesis for <i>Candida albicans</i> Cell Wall Maintenance. <i>MBio</i> , 2020, 11, .	4.1	16
138	Hepatic mTORC1 signaling activates ATF4 as part of its metabolic response to feeding and insulin. <i>Molecular Metabolism</i> , 2021, 53, 101309.	6.5	16
139	TSHB mRNA is linked to cholesterol metabolism in adipose tissue. <i>FASEB Journal</i> , 2017, 31, 4482-4491.	0.5	15
140	Ketamine's Effects on the Glutamatergic and GABAergic Systems: A Proteomics and Metabolomics Study in Mice. <i>Molecular Neuropsychiatry</i> , 2019, 5, 42-51.	2.9	15
141	Suppression of nuclear GSK3 signaling promotes serine/one-carbon metabolism and confers metabolic vulnerability in lung cancer cells. <i>Science Advances</i> , 2022, 8, .	10.3	15
142	In-gel stable isotope labeling for relative quantification using mass spectrometry. <i>Nature Protocols</i> , 2006, 1, 46-51.	12.0	14
143	p21-activated Kinases (PAKs) Mediate the Phosphorylation of PREX2 Protein to Initiate Feedback Inhibition of Rac1 GTPase. <i>Journal of Biological Chemistry</i> , 2015, 290, 28915-28931.	3.4	14
144	Interleukin-6 mediates PSAT1 expression and serine metabolism in TSC2-deficient cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	13

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145	Peripheral fibroblast metabolic pathway alterations in juvenile rhesus monkeys undergoing long-term fluoxetine administration. <i>European Neuropsychopharmacology</i> , 2016, 26, 1110-1118.	0.7	11
146	IsoSearch: An Untargeted and Unbiased Metabolite and Lipid Isotopomer Tracing Strategy from HR-LC-MS/MS Datasets. <i>Methods and Protocols</i> , 2020, 3, 54.	2.0	11
147	The ABRF Metabolomics Research Group 2013 Study: Investigation of Spiked Compound Differences in a Human Plasma Matrix. <i>Journal of Biomolecular Techniques</i> , 2015, 26, 83-89.	1.5	9
148	Chromatin association of XRCC5/6 in the absence of DNA damage depends on the XPE gene product DDB2. <i>Molecular Biology of the Cell</i> , 2017, 28, 192-200.	2.1	9
149	Serial-omics of P53 ^{+/+} , Brca1 ^{+/+} Mouse Breast Tumor and Normal Mammary Gland. <i>Scientific Reports</i> , 2017, 7, 14503.	3.3	9
150	Robust effect of metabolic syndrome on major metabolic pathways in the myocardium. <i>PLoS ONE</i> , 2019, 14, e0225857.	2.5	9
151	Metabolomics and the pig model reveal aberrant cardiac energy metabolism in metabolic syndrome. <i>Scientific Reports</i> , 2020, 10, 3483.	3.3	8
152	Therapeutic Targeting of DGKA-Mediated Macropinocytosis Leads to Phospholipid Reprogramming in Tuberous Sclerosis Complex. <i>Cancer Research</i> , 2021, 81, 2086-2100.	0.9	8
153	A genetic model of methionine restriction extends <i>Drosophila</i> health- and lifespan. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	8
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