

# KÄ±vanÃ§ Birsoy

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

11,940  
citations

94269

37  
h-index

128067

60  
g-index

68  
all docs

68  
docs citations

68  
times ranked

21535  
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification and characterization of essential genes in the human genome. <i>Science</i> , 2015, 350, 1096-1101.	6.0	1,461
2	Functional genomics reveal that the serine synthesis pathway is essential in breast cancer. <i>Nature</i> , 2011, 476, 346-350.	13.7	1,359
3	An Essential Role of the Mitochondrial Electron Transport Chain in Cell Proliferation Is to Enable Aspartate Synthesis. <i>Cell</i> , 2015, 162, 540-551.	13.5	1,024
4	Identification of White Adipocyte Progenitor Cells In Vivo. <i>Cell</i> , 2008, 135, 240-249.	13.5	828
5	mTORC1 in the Paneth cell niche couples intestinal stem-cell function to calorie intake. <i>Nature</i> , 2012, 486, 490-495.	13.7	631
6	Metabolic determinants of cancer cell sensitivity to glucose limitation and biguanides. <i>Nature</i> , 2014, 508, 108-112.	13.7	585
7	NFS1 undergoes positive selection in lung tumours and protects cells from ferroptosis. <i>Nature</i> , 2017, 551, 639-643.	13.7	478
8	A PHGDH inhibitor reveals coordination of serine synthesis and one-carbon unit fate. <i>Nature Chemical Biology</i> , 2016, 12, 452-458.	3.9	389
9	A Diverse Array of Cancer-Associated <i>MTOR</i> Mutations Are Hyperactivating and Can Predict Rapamycin Sensitivity. <i>Cancer Discovery</i> , 2014, 4, 554-563.	7.7	384
10	Absolute Quantification of Matrix Metabolites Reveals the Dynamics of Mitochondrial Metabolism. <i>Cell</i> , 2016, 166, 1324-1337.e11.	13.5	367
11	Metabolic determinants of cancer cell sensitivity to canonical ferroptosis inducers. <i>Nature Chemical Biology</i> , 2020, 16, 1351-1360.	3.9	339
12	Aspartate is a limiting metabolite for cancer cell proliferation under hypoxia and in tumours. <i>Nature Cell Biology</i> , 2018, 20, 775-781.	4.6	311
13	SHMT2 drives glioma cell survival in ischaemia but imposes a dependence on glycine clearance. <i>Nature</i> , 2015, 520, 363-367.	13.7	303
14	Transcriptional Regulation of Adipogenesis by KLF4. <i>Cell Metabolism</i> , 2008, 7, 339-347.	7.2	293
15	Molecular Profiling of Activated Neurons by Phosphorylated Ribosome Capture. <i>Cell</i> , 2012, 151, 1126-1137.	13.5	270
16	Squalene accumulation in cholesterol auxotrophic lymphomas prevents oxidative cell death. <i>Nature</i> , 2019, 567, 118-122.	13.7	262
17	Antidiabetic Effects of IGFBP2, a Leptin-Regulated Gene. <i>Cell Metabolism</i> , 2010, 11, 11-22.	7.2	251
18	Adipocyte-Derived Lipids Mediate Melanoma Progression via FATP Proteins. <i>Cancer Discovery</i> , 2018, 8, 1006-1025.	7.7	248

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19	Molecular Characterization and Clinical Relevance of Metabolic Expression Subtypes in Human Cancers. <i>Cell Reports</i> , 2018, 23, 255-269.e4.	2.9	204
20	Maintaining Iron Homeostasis Is the Key Role of Lysosomal Acidity for Cell Proliferation. <i>Molecular Cell</i> , 2020, 77, 645-655.e7.	4.5	144
21	Serine Catabolism by SHMT2 Is Required for Proper Mitochondrial Translation Initiation and Maintenance of Formylmethionyl-tRNAs. <i>Molecular Cell</i> , 2018, 69, 610-621.e5.	4.5	139
22	A CRISPR screen identifies a pathway required for paraquat-induced cell death. <i>Nature Chemical Biology</i> , 2017, 13, 1274-1279.	3.9	138
23	A comparative perspective on lipid storage in animals. <i>Journal of Cell Science</i> , 2013, 126, 1541-1552.	1.2	112
24	DEPTOR Cell-Autonomously Promotes Adipogenesis, and Its Expression Is Associated with Obesity. <i>Cell Metabolism</i> , 2012, 16, 202-212.	7.2	99
25	SLC25A39 is necessary for mitochondrial glutathione import in mammalian cells. <i>Nature</i> , 2021, 599, 136-140.	13.7	89
26	Analysis of gene networks in white adipose tissue development reveals a role for ETS2 in adipogenesis. <i>Development (Cambridge)</i> , 2011, 138, 4709-4719.	1.2	87
27	CHP1 Regulates Compartmentalized Glycerolipid Synthesis by Activating GPAT4. <i>Molecular Cell</i> , 2019, 74, 45-58.e7.	4.5	83
28	MITO-Tag Mice enable rapid isolation and multimodal profiling of mitochondria from specific cell types in vivo. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 303-312.	3.3	80
29	Dysregulation of a long noncoding RNA reduces leptin leading to a leptin-responsive form of obesity. <i>Nature Medicine</i> , 2019, 25, 507-516.	15.2	79
30	A muscle-specific knockout implicates nuclear receptor coactivator MED1 in the regulation of glucose and energy metabolism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10196-10201.	3.3	74
31	A critical role for mTORC1 in erythropoiesis and anemia. <i>ELife</i> , 2014, 3, e01913.	2.8	67
32	Functional Genomics In Vivo Reveal Metabolic Dependencies of Pancreatic Cancer Cells. <i>Cell Metabolism</i> , 2021, 33, 211-221.e6.	7.2	63
33	Untuning the tumor metabolic machine: Targeting cancer metabolism: a bedside lesson. <i>Nature Medicine</i> , 2012, 18, 1022-1023.	15.2	60
34	Identification of Biologically Active PDE11-Selective Inhibitors Using a Yeast-Based High-Throughput Screen. <i>Chemistry and Biology</i> , 2012, 19, 155-163.	6.2	53
35	Target identification reveals lanosterol synthase as a vulnerability in glioma. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 7957-7962.	3.3	52
36	Targeting extracellular nutrient dependencies of cancer cells. <i>Molecular Metabolism</i> , 2020, 33, 67-82.	3.0	50

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37	The anticancer natural product ophiobolin A induces cytotoxicity by covalent modification of phosphatidylethanolamine. <i>ELife</i> , 2016, 5, .	2.8	44
38	ZBTB1 Regulates Asparagine Synthesis and Leukemia Cell Response to L-Asparaginase. <i>Cell Metabolism</i> , 2020, 31, 852-861.e6.	7.2	40
39	<i>PIK3CA</i> mutant tumors depend on oxoglutarate dehydrogenase. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E3434-E3443.	3.3	38
40	The Adaptor Protein p66Shc Inhibits mTOR-Dependent Anabolic Metabolism. <i>Science Signaling</i> , 2014, 7, ra17.	1.6	37
41	SUMO-1 Modification of Human Transcription Factor (TF) IID Complex Subunits. <i>Journal of Biological Chemistry</i> , 2005, 280, 9937-9945.	1.6	35
42	The serine hydroxymethyltransferase-2 (SHMT2) initiates lymphoma development through epigenetic tumor suppressor silencing. <i>Nature Cancer</i> , 2020, 1, 653-664.	5.7	35
43	Cellular program controlling the recovery of adipose tissue mass: An <i>in vivo</i> imaging approach. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 12985-12990.	3.3	34
44	Nuclear Factor-Y is an adipogenic factor that regulates leptin gene expression. <i>Molecular Metabolism</i> , 2015, 4, 392-405.	3.0	32
45	Metabolic coessentiality mapping identifies C12orf49 as a regulator of SREBP processing and cholesterol metabolism. <i>Nature Metabolism</i> , 2020, 2, 487-498.	5.1	32
46	A mitochondrial gatekeeper that helps cells escape death by ferroptosis. <i>Nature</i> , 2021, 593, 514-515.	13.7	26
47	Adaptive stimulation of macropinocytosis overcomes aspartate limitation in cancer cells under hypoxia. <i>Nature Metabolism</i> , 2022, 4, 724-738.	5.1	20
48	Amplification of Adipogenic Commitment by VSTM2A. <i>Cell Reports</i> , 2017, 18, 93-106.	2.9	18
49	Drugging ACAT1 for Cancer Therapy. <i>Molecular Cell</i> , 2016, 64, 856-857.	4.5	16
50	<i>ATRAID</i> regulates the action of nitrogen-containing bisphosphonates on bone. <i>Science Translational Medicine</i> , 2020, 12, .	5.8	15
51	Metabolic-scale gene activation screens identify <i>SLCO2B1</i> as a heme transporter that enhances cellular iron availability. <i>Molecular Cell</i> , 2022, 82, 2832-2843.e7.	4.5	13
52	The Transsulfuration Pathway Makes, the Tumor Takes. <i>Cell Metabolism</i> , 2019, 30, 845-846.	7.2	12
53	Dietary thiamine influences <i>ASPARAGINASE</i> sensitivity in a subset of leukemia cells. <i>Science Advances</i> , 2020, 6, .	4.7	9
54	Asparagine, a Key Metabolite in Cellular Response to Mitochondrial Dysfunction. <i>Trends in Cancer</i> , 2021, 7, 479-481.	3.8	5

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55	Limitation of adipose tissue by the number of embryonic progenitor cells. <i>ELife</i> , 2020, 9, .	2.8	4
56	Targeting mitochondrial metabolism in acute myeloid leukemia. <i>Leukemia and Lymphoma</i> , 2022, 63, 530-537.	0.6	3
57	Deciphering cellular heterogeneity of pancreatic tumours. <i>Nature Cell Biology</i> , 2019, 21, 1305-1306.	4.6	2
58	A link between metabolic energetics and pancreatic cancer mechanosensing. <i>Nature Metabolism</i> , 2020, 2, 5-6.	5.1	2
59	The role of metabolism in cellular processes. <i>Molecular Biology of the Cell</i> , 2019, 30, 733-733.	0.9	1
60	STACKing the odds for discoveries. <i>Nature Chemical Biology</i> , 2021, 17, 627-628.	3.9	0
61	Career pathways, part 5. <i>Nature Metabolism</i> , 2021, 3, 887-889.	5.1	0