Almut Schulze

List of Publications by Citations

87 papers	11,138 citations	46 h-index	104 g-index
104 ext. papers	13,669 ext. citations	11.2 avg, IF	6.71 L-index

#	Paper	IF	Citations
87	Cellular fatty acid metabolism and cancer. *Cell Metabolism*, **2013**, 18, 153-61	24.6	1060
86	SREBP activity is regulated by mTORC1 and contributes to Akt-dependent cell growth. *Cell Metabolism*, **2008**, 8, 224-36	24.6	901
85	Lipid metabolism in cancer. *FEBS Journal*, **2012**, 279, 2610-23	5.7	819
84	FSP1 is a glutathione-independent ferroptosis suppressor. *Nature*, **2019**, 575, 693-698	50.4	663
83	How cancer metabolism is tuned for proliferation and vulnerable to disruption. *Nature*, **2012**, 491, 364-73	50.4	652
82	The multifaceted roles of fatty acid synthesis in cancer. *Nature Reviews Cancer*, **2016**, 16, 732-749	31.3	594
81	Hooked on fat: the role of lipid synthesis in cancer metabolism and tumour development. *DMM Disease Models and Mechanisms*, **2013**, 6, 1353-63	4.1	484
80	Acetyl-CoA synthetase 2 promotes acetate utilization and maintains cancer cell growth under metabolic stress. *Cancer Cell*, **2015**, 27, 57-71	24.3	421
79	Navigating gene expression using microarrays--a technology review. *Nature Cell Biology*, **2001**, 3, E190-5	23.4	392
78	PKB/Akt induces transcription of enzymes involved in cholesterol and fatty acid biosynthesis via activation of SREBP. *Oncogene*, **2005**, 24, 6465-81	9.2	326
77	Cell cycle regulation of the cyclin A gene promoter is mediated by a variant E2F site. *Proceedings of the National Academy of Sciences of the United States of America*, **1995**, 92, 11264-8	11.5	325
76	Fatty acid uptake and lipid storage induced by HIF-1α contribute to cell growth and survival after hypoxia-reoxygenation. *Cell Reports*, **2014**, 9, 349-365	10.6	324
75	Raf induces TGFbeta production while blocking its apoptotic but not invasive responses: a mechanism leading to increased malignancy in epithelial cells. *Genes and Development*, **2000**, 14, 2610-22	12.6	234
74	Analysis of the transcriptional program induced by Raf in epithelial cells. *Genes and Development*, **2001**, 15, 981-94	12.6	199
73	FOXO3a regulates reactive oxygen metabolism by inhibiting mitochondrial gene expression. *Cell Death and Differentiation*, **2012**, 19, 968-79	12.7	186
72	Sterol regulatory element binding protein-dependent regulation of lipid synthesis supports cell survival and tumor growth. *Cancer & Metabolism*, **2013**, 1, 3	5.4	166
71	Functional metabolic screen identifies 6-phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 as an important regulator of prostate cancer cell survival. *Cancer Discovery*, **2012**, 2, 328-43	24.4	145

70	Greasing the Wheels of the Cancer Machine: The Role of Lipid Metabolism in Cancer. *Cell Metabolism*, **2020**, 31, 62-76	24.6	144
69	Induction of Mxi1-SR alpha by FOXO3a contributes to repression of Myc-dependent gene expression. *Molecular and Cellular Biology*, **2007**, 27, 4917-30	4.8	143
68	Balancing glycolytic flux: the role of 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatases in cancer metabolism. *Cancer & Metabolism*, **2013**, 1, 8	5.4	141
67	Inhibition of fatty acid desaturation is detrimental to cancer cell survival in metabolically compromised environments. *Cancer & Metabolism*, **2016**, 4, 6	5.4	135
66	Sequential activation of cyclin E and cyclin A gene expression by human papillomavirus type 16 E7 through sequences necessary for transformation. *Journal of Virology*, **1995**, 69, 6389-99	6.6	133
65	Targeting cancer metabolism--aiming at a tumour¶s sweet-spot. *Drug Discovery Today*, **2012**, 17, 232-41	8.8	130
64	The forkhead transcription factor FOXO3a increases phosphoinositide-3 kinase/Akt activity in drug-resistant leukemic cells through induction of PIK3CA expression. *Molecular and Cellular Biology*, **2008**, 28, 5886-98	4.8	124
63	Anchorage-dependent transcription of the cyclin A gene. *Molecular and Cellular Biology*, **1996**, 16, 4632-8	4.8	122
62	The glutathione redox system is essential to prevent ferroptosis caused by impaired lipid metabolism in clear cell renal cell carcinoma. *Oncogene*, **2018**, 37, 5435-5450	9.2	115
61	p27KIP1 blocks cyclin E-dependent transactivation of cyclin A gene expression. *Molecular and Cellular Biology*, **1997**, 17, 407-15	4.8	109
60	SREBP maintains lipid biosynthesis and viability of cancer cells under lipid- and oxygen-deprived conditions and defines a gene signature associated with poor survival in glioblastoma multiforme. *Oncogene*, **2015**, 34, 5128-40	9.2	108
59	Lipid desaturation - the next step in targeting lipogenesis in cancer?. *FEBS Journal*, **2016**, 283, 2767-78	5.7	104
58	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. *Molecular Systems Biology*, **2014**, 10, 744	12.2	96
57	Genome-wide analysis of FOXO3 mediated transcription regulation through RNA polymerase II profiling. *Molecular Systems Biology*, **2013**, 9, 638	12.2	88
56	Involvement of MINK, a Ste20 family kinase, in Ras oncogene-induced growth arrest in human ovarian surface epithelial cells. *Molecular Cell*, **2005**, 20, 673-85	17.6	87
55	NFATc1 controls the cytotoxicity of CD8 T cells. *Nature Communications*, **2017**, 8, 511	17.4	78
54	A new player in the orchestra of cell growth: SREBP activity is regulated by mTORC1 and contributes to the regulation of cell and organ size. *Biochemical Society Transactions*, **2009**, 37, 278-83	5.1	70
53	Regulation of the SREBP transcription factors by mTORC1. *Biochemical Society Transactions*, **2011**, 39, 495-9	5.1	60

52	Flux balance analysis predicts essential genes in clear cell renal cell carcinoma metabolism. *Scientific Reports*, **2015**, 5, 10738	4.9	59
51	The transcriptional response to Raf activation is almost completely dependent on Mitogen-activated Protein Kinase Kinase activity and shows a major autocrine component. *Molecular Biology of the Cell*, **2004**, 15, 3450-63	3.5	59
50	Functional screening identifies MCT4 as a key regulator of breast cancer cell metabolism and survival. *Journal of Pathology*, **2015**, 237, 152-65	9.4	55
49	Antagonism between FOXO and MYC Regulates Cellular Powerhouse. *Frontiers in Oncology*, **2013**, 3, 96	5.3	55
48	Direct control of caveolin-1 expression by FOXO transcription factors. *Biochemical Journal*, **2005**, 385, 795-802	3.8	53
47	The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. *Cell Metabolism*, **2019**, 30, 556-572.e5	24.6	52
46	Modulation of cyclin gene expression by adenovirus E1A in a cell line with E1A-dependent conditional proliferation. *Journal of Virology*, **1994**, 68, 2206-14	6.6	51
45	Infection of primary cells by adeno-associated virus type 2 results in a modulation of cell cycle-regulating proteins. *Journal of Virology*, **1997**, 71, 6020-7	6.6	50
44	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. *Molecular Systems Biology*, **2014**, 10, 744	12.2	48
43	Lipid Metabolism at the Nexus of Diet and Tumor Microenvironment. *Trends in Cancer*, **2019**, 5, 693-703	12.5	47
42	Regulation of Metabolic Activity by p53. *Metabolites*, **2017**, 7,	5.6	46
41	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 is essential for p53-null cancer cells. *Oncogene*, **2017**, 36, 3287-3299	9.2	43
40	Glycolysis back in the limelight: systemic targeting of HK2 blocks tumor growth. *Cancer Discovery*, **2013**, 3, 1105-7	24.4	42
39	Anchorage-independent transcription of the cyclin A gene induced by the E7 oncoprotein of human papillomavirus type 16. *Journal of Virology*, **1998**, 72, 2323-34	6.6	39
38	Activation of the E2F transcription factor by cyclin D1 is blocked by p16INK4, the product of the putative tumor suppressor gene MTS1. *Oncogene*, **1994**, 9, 3475-82	9.2	38
37	Non-canonical functions of enzymes facilitate cross-talk between cell metabolic and regulatory pathways. *Experimental and Molecular Medicine*, **2018**, 50, 1-16	12.8	32
36	A MYC-GCN2-eIF2 negative feedback loop limits protein synthesis to prevent MYC-dependent apoptosis in colorectal cancer. *Nature Cell Biology*, **2019**, 21, 1413-1424	23.4	31
35	Flicking the Warburg switch-tyrosine phosphorylation of pyruvate dehydrogenase kinase regulates mitochondrial activity in cancer cells. *Molecular Cell*, **2011**, 44, 846-8	17.6	31

34	Mevalonate Pathway Provides Ubiquinone to Maintain Pyrimidine Synthesis and Survival in p53-Deficient Cancer Cells Exposed to Metabolic Stress. *Cancer Research*, **2020**, 80, 189-203	10.1	30
33	Ferroptosis: The Greasy Side of Cell Death. *Chemical Research in Toxicology*, **2019**, 32, 362-369	4	26
32	Beta-hydroxybutyrate (3-OHB) can influence the energetic phenotype of breast cancer cells, but does not impact their proliferation and the response to chemotherapy or radiation. *Cancer & Metabolism*, **2018**, 6, 8	5.4	25
31	Modulation of cellular migration and survival by c-Myc through the downregulation of urokinase (uPA) and uPA receptor. *Molecular and Cellular Biology*, **2010**, 30, 1838-51	4.8	25
30	Linking glycogen and senescence in cancer cells. *Cell Metabolism*, **2012**, 16, 687-8	24.6	24
29	Adenovirus E1A activates cyclin A gene transcription in the absence of growth factors through interaction with p107. *Journal of Virology*, **1996**, 70, 2637-42	6.6	22
28	Systematic Analysis Reveals that Cancer Mutations Converge on Deregulated Metabolism of Arachidonate and Xenobiotics. *Cell Reports*, **2016**, 16, 878-95	10.6	20
27	Metabotypes of breast cancer cell lines revealed by non-targeted metabolomics. *Metabolic Engineering*, **2017**, 43, 173-186	9.7	19
26	Cholesteryl esters: fueling the fury of prostate cancer. *Cell Metabolism*, **2014**, 19, 350-2	24.6	19
25	Analysis of gene expression by microarrays: cell biologistЂs gold mine or minefield?. *Journal of Cell Science*, **2000**, 113, 4151-4156	5.3	19
24	Activation of cyclin A gene expression by the cyclin encoded by human herpesvirus-8. *Journal of General Virology*, **1999**, 80 (Pt 3), 549-555	4.9	17
23	Down-regulation of cyclin A gene expression upon genotoxic stress correlates with reduced binding of free E2F to the promoter. *Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research*, **1997**, 8, 699-710		17
22	Connecting lysosomes and mitochondria - a novel role for lipid metabolism in cancer cell death. *Cell Communication and Signaling*, **2019**, 17, 87	7.5	16
21	Protein kinase D1 deletion in adipocytes enhances energy dissipation and protects against adiposity. *EMBO Journal*, **2018**, 37,	13	16
20	mTOR Signaling and SREBP Activity Increase FADS2 Expression and Can Activate Sapienate Biosynthesis. *Cell Reports*, **2020**, 31, 107806	10.6	15
19	The kinase PKD3 provides negative feedback on cholesterol and triglyceride synthesis by suppressing insulin signaling. *Science Signaling*, **2019**, 12,	8.8	14
18	Regulation of cyclin E gene expression by the human papillomavirus type 16 E7 oncoprotein. *Journal of General Virology*, **1999**, 80 (Pt 8), 2103-2113	4.9	12
17	3D Growth of Cancer Cells Elicits Sensitivity to Kinase Inhibitors but Not Lipid Metabolism Modifiers. *Molecular Cancer Therapeutics*, **2019**, 18, 376-388	6.1	12

16	A role for the cancer-associated miR-106b~25 cluster in neuronal stem cells. *Aging*, **2011**, 3, 329-31	5.6	10
15	The Role of Glucose and Lipid Metabolism in Growth and Survival of Cancer Cells. *Recent Results in Cancer Research*, **2016**, 207, 1-22	1.5	7
14	Genetic ablation of S6-kinase does not prevent processing of SREBP1. *Advances in Enzyme Regulation*, **2011**, 51, 280-90		7
13	Reprogramming of host glutamine metabolism during Chlamydia trachomatis infection and its key role in peptidoglycan synthesis. *Nature Microbiology*, **2020**, 5, 1390-1402	26.6	7
12	Analysis of gene expression by microarrays: cell biologistTs gold mine or minefield?. *Journal of Cell Science*, **2000**, 113 Pt 23, 4151-6	5.3	7
11	LXR□activation and Raf inhibition trigger lethal lipotoxicity in liver cancer.. *Nature Cancer*, **2021**, 2, 201-217	15.4	6
10	MiR-205-driven downregulation of cholesterol biosynthesis through SQLE-inhibition identifies therapeutic vulnerability in aggressive prostate cancer. *Nature Communications*, **2021**, 12, 5066	17.4	5
9	Cathepsin Inhibition Modulates Metabolism and Polarization of Tumor-Associated Macrophages. *Cancers*, **2020**, 12,	6.6	4
8	Acetyl-coA synthetase 2 promotes acetate utilization and maintains cell growth under metabolic stress. *Cancer & Metabolism*, **2014**, 2,	5.4	2
7	Neutral Sphingomyelinase-2 (NSM 2) Controls T Cell Metabolic Homeostasis and Reprogramming During Activation. *Frontiers in Molecular Biosciences*, **2020**, 7, 217	5.6	2
6	Inhibition of fatty acid synthesis induces differentiation and reduces tumor burden in childhood neuroblastoma. *IScience*, **2021**, 24, 102128	6.1	2
5	Fatty acid synthesis enables brain metastasis.. *Nature Cancer*, **2021**, 2, 374-376	15.4	1
4	Acute systemic knockdown of is lethal and causes pancreatic destruction in shRNA transgenic mice.. *Autophagy*, **2022**, 1-14	10.2	0
3	A fresh look at cancer metabolism in a historical setting. *EMBO Reports*, **2011**, 12, 289-91	6.5	
2	A heavyweight guide through the array jungle. *Journal of Cell Science*, **2003**, 116, 1396-1396	5.3	
1	From membranes to chips - a pocket guide to DNA microarray technology. *Journal of Cell Science*, **2002**, 115, 1781-1781	5.3	