

# Almut Schulze

## 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.

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	Acute systemic knockdown of is lethal and causes pancreatic destruction in shRNA transgenic mice.. <i>Autophagy</i> , <b>2022</b> , 1-14	10.2	0
86	Fatty acid synthesis enables brain metastasis.. <i>Nature Cancer</i> , <b>2021</b> , 2, 374-376	15.4	1
85	Inhibition of fatty acid synthesis induces differentiation and reduces tumor burden in childhood neuroblastoma. <i>IScience</i> , <b>2021</b> , 24, 102128	6.1	2
84	LXR $\alpha$ activation and Raf inhibition trigger lethal lipotoxicity in liver cancer.. <i>Nature Cancer</i> , <b>2021</b> , 2, 201-217	15.4	6
83	MiR-205-driven downregulation of cholesterol biosynthesis through SQLE-inhibition identifies therapeutic vulnerability in aggressive prostate cancer. <i>Nature Communications</i> , <b>2021</b> , 12, 5066	17.4	5
82	mTOR Signaling and SREBP Activity Increase FADS2 Expression and Can Activate Sapienate Biosynthesis. <i>Cell Reports</i> , <b>2020</b> , 31, 107806	10.6	15
81	Mevalonate Pathway Provides Ubiquinone to Maintain Pyrimidine Synthesis and Survival in p53-Deficient Cancer Cells Exposed to Metabolic Stress. <i>Cancer Research</i> , <b>2020</b> , 80, 189-203	10.1	30
80	Greasing the Wheels of the Cancer Machine: The Role of Lipid Metabolism in Cancer. <i>Cell Metabolism</i> , <b>2020</b> , 31, 62-76	24.6	144
79	Neutral Sphingomyelinase-2 (NSM 2) Controls T Cell Metabolic Homeostasis and Reprogramming During Activation. <i>Frontiers in Molecular Biosciences</i> , <b>2020</b> , 7, 217	5.6	2
78	Reprogramming of host glutamine metabolism during Chlamydia trachomatis infection and its key role in peptidoglycan synthesis. <i>Nature Microbiology</i> , <b>2020</b> , 5, 1390-1402	26.6	7
77	Cathepsin Inhibition Modulates Metabolism and Polarization of Tumor-Associated Macrophages. <i>Cancers</i> , <b>2020</b> , 12,	6.6	4
76	The kinase PKD3 provides negative feedback on cholesterol and triglyceride synthesis by suppressing insulin signaling. <i>Science Signaling</i> , <b>2019</b> , 12,	8.8	14
75	The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. <i>Cell Metabolism</i> , <b>2019</b> , 30, 556-572.e5	24.6	52
74	Connecting lysosomes and mitochondria - a novel role for lipid metabolism in cancer cell death. <i>Cell Communication and Signaling</i> , <b>2019</b> , 17, 87	7.5	16
73	A MYC-GCN2-eIF2 $\gamma$ negative feedback loop limits protein synthesis to prevent MYC-dependent apoptosis in colorectal cancer. <i>Nature Cell Biology</i> , <b>2019</b> , 21, 1413-1424	23.4	31
72	Lipid Metabolism at the Nexus of Diet and Tumor Microenvironment. <i>Trends in Cancer</i> , <b>2019</b> , 5, 693-703	12.5	47
71	FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , <b>2019</b> , 575, 693-698	50.4	663

70	Ferroptosis: The Greasy Side of Cell Death. <i>Chemical Research in Toxicology</i> , <b>2019</b> , 32, 362-369	4	26
69	3D Growth of Cancer Cells Elicits Sensitivity to Kinase Inhibitors but Not Lipid Metabolism Modifiers. <i>Molecular Cancer Therapeutics</i> , <b>2019</b> , 18, 376-388	6.1	12
68	Non-canonical functions of enzymes facilitate cross-talk between cell metabolic and regulatory pathways. <i>Experimental and Molecular Medicine</i> , <b>2018</b> , 50, 1-16	12.8	32
67	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. <i>Cancer &amp; Metabolism</i> , <b>2018</b> , 6, 8	5.4	25
66	The glutathione redox system is essential to prevent ferroptosis caused by impaired lipid metabolism in clear cell renal cell carcinoma. <i>Oncogene</i> , <b>2018</b> , 37, 5435-5450	9.2	115
65	Protein kinase D1 deletion in adipocytes enhances energy dissipation and protects against adiposity. <i>EMBO Journal</i> , <b>2018</b> , 37,	13	16
64	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 is essential for p53-null cancer cells. <i>Oncogene</i> , <b>2017</b> , 36, 3287-3299	9.2	43
63	Metabotypes of breast cancer cell lines revealed by non-targeted metabolomics. <i>Metabolic Engineering</i> , <b>2017</b> , 43, 173-186	9.7	19
62	NFATc1 controls the cytotoxicity of CD8 T cells. <i>Nature Communications</i> , <b>2017</b> , 8, 511	17.4	78
61	Regulation of Metabolic Activity by p53. <i>Metabolites</i> , <b>2017</b> , 7,	5.6	46
60	The Role of Glucose and Lipid Metabolism in Growth and Survival of Cancer Cells. <i>Recent Results in Cancer Research</i> , <b>2016</b> , 207, 1-22	1.5	7
59	Inhibition of fatty acid desaturation is detrimental to cancer cell survival in metabolically compromised environments. <i>Cancer &amp; Metabolism</i> , <b>2016</b> , 4, 6	5.4	135
58	Lipid desaturation - the next step in targeting lipogenesis in cancer?. <i>FEBS Journal</i> , <b>2016</b> , 283, 2767-78	5.7	104
57	Systematic Analysis Reveals that Cancer Mutations Converge on Deregulated Metabolism of Arachidonate and Xenobiotics. <i>Cell Reports</i> , <b>2016</b> , 16, 878-95	10.6	20
56	The multifaceted roles of fatty acid synthesis in cancer. <i>Nature Reviews Cancer</i> , <b>2016</b> , 16, 732-749	31.3	594
55	Functional screening identifies MCT4 as a key regulator of breast cancer cell metabolism and survival. <i>Journal of Pathology</i> , <b>2015</b> , 237, 152-65	9.4	55
54	Flux balance analysis predicts essential genes in clear cell renal cell carcinoma metabolism. <i>Scientific Reports</i> , <b>2015</b> , 5, 10738	4.9	59
53	Acetyl-CoA synthetase 2 promotes acetate utilization and maintains cancer cell growth under metabolic stress. <i>Cancer Cell</i> , <b>2015</b> , 27, 57-71	24.3	421

52	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. <i>Oncogene</i> , <b>2015</b> , 34, 5128-40	9.2	108
51	Cholesteryl esters: fueling the fury of prostate cancer. <i>Cell Metabolism</i> , <b>2014</b> , 19, 350-2	24.6	19
50	Acetyl-coA synthetase 2 promotes acetate utilization and maintains cell growth under metabolic stress. <i>Cancer &amp; Metabolism</i> , <b>2014</b> , 2,	5.4	2
49	Fatty acid uptake and lipid storage induced by HIF-1 $\alpha$ contribute to cell growth and survival after hypoxia-reoxygenation. <i>Cell Reports</i> , <b>2014</b> , 9, 349-365	10.6	324
48	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. <i>Molecular Systems Biology</i> , <b>2014</b> , 10, 744	12.2	96
47	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. <i>Molecular Systems Biology</i> , <b>2014</b> , 10, 744	12.2	48
46	Balancing glycolytic flux: the role of 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatases in cancer metabolism. <i>Cancer &amp; Metabolism</i> , <b>2013</b> , 1, 8	5.4	141
45	Glycolysis back in the limelight: systemic targeting of HK2 blocks tumor growth. <i>Cancer Discovery</i> , <b>2013</b> , 3, 1105-7	24.4	42
44	Genome-wide analysis of FOXO3 mediated transcription regulation through RNA polymerase II profiling. <i>Molecular Systems Biology</i> , <b>2013</b> , 9, 638	12.2	88
43	Sterol regulatory element binding protein-dependent regulation of lipid synthesis supports cell survival and tumor growth. <i>Cancer &amp; Metabolism</i> , <b>2013</b> , 1, 3	5.4	166
42	Cellular fatty acid metabolism and cancer. <i>Cell Metabolism</i> , <b>2013</b> , 18, 153-61	24.6	1060
41	Antagonism between FOXO and MYC Regulates Cellular Powerhouse. <i>Frontiers in Oncology</i> , <b>2013</b> , 3, 96	5.3	55
40	Hooked on fat: the role of lipid synthesis in cancer metabolism and tumour development. <i>DMM Disease Models and Mechanisms</i> , <b>2013</b> , 6, 1353-63	4.1	484
39	Targeting cancer metabolism--aiming at a tumour's sweet-spot. <i>Drug Discovery Today</i> , <b>2012</b> , 17, 232-41	8.8	130
38	Lipid metabolism in cancer. <i>FEBS Journal</i> , <b>2012</b> , 279, 2610-23	5.7	819
37	How cancer metabolism is tuned for proliferation and vulnerable to disruption. <i>Nature</i> , <b>2012</b> , 491, 364-73	30.4	652
36	Linking glycogen and senescence in cancer cells. <i>Cell Metabolism</i> , <b>2012</b> , 16, 687-8	24.6	24
35	Functional metabolic screen identifies 6-phosphofructo-2-kinase/fructose-2,6-bisphosphatase 4 as an important regulator of prostate cancer cell survival. <i>Cancer Discovery</i> , <b>2012</b> , 2, 328-43	24.4	145

34	FOXO3a regulates reactive oxygen metabolism by inhibiting mitochondrial gene expression. <i>Cell Death and Differentiation</i> , <b>2012</b> , 19, 968-79	12.7	186
33	Genetic ablation of S6-kinase does not prevent processing of SREBP1. <i>Advances in Enzyme Regulation</i> , <b>2011</b> , 51, 280-90		7
32	Flicking the Warburg switch-tyrosine phosphorylation of pyruvate dehydrogenase kinase regulates mitochondrial activity in cancer cells. <i>Molecular Cell</i> , <b>2011</b> , 44, 846-8	17.6	31
31	A fresh look at cancer metabolism in a historical setting. <i>EMBO Reports</i> , <b>2011</b> , 12, 289-91	6.5	
30	Regulation of the SREBP transcription factors by mTORC1. <i>Biochemical Society Transactions</i> , <b>2011</b> , 39, 495-9	5.1	60
29	A role for the cancer-associated miR-106b~25 cluster in neuronal stem cells. <i>Aging</i> , <b>2011</b> , 3, 329-31	5.6	10
28	Modulation of cellular migration and survival by c-Myc through the downregulation of urokinase (uPA) and uPA receptor. <i>Molecular and Cellular Biology</i> , <b>2010</b> , 30, 1838-51	4.8	25
27	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. <i>Biochemical Society Transactions</i> , <b>2009</b> , 37, 278-83	5.1	70
26	SREBP activity is regulated by mTORC1 and contributes to Akt-dependent cell growth. <i>Cell Metabolism</i> , <b>2008</b> , 8, 224-36	24.6	901
25	The forkhead transcription factor FOXO3a increases phosphoinositide-3 kinase/Akt activity in drug-resistant leukemic cells through induction of PIK3CA expression. <i>Molecular and Cellular Biology</i> , <b>2008</b> , 28, 5886-98	4.8	124
24	Induction of Mxi1-SR alpha by FOXO3a contributes to repression of Myc-dependent gene expression. <i>Molecular and Cellular Biology</i> , <b>2007</b> , 27, 4917-30	4.8	143
23	Involvement of MINK, a Ste20 family kinase, in Ras oncogene-induced growth arrest in human ovarian surface epithelial cells. <i>Molecular Cell</i> , <b>2005</b> , 20, 673-85	17.6	87
22	Direct control of caveolin-1 expression by FOXO transcription factors. <i>Biochemical Journal</i> , <b>2005</b> , 385, 795-802	3.8	53
21	PKB/Akt induces transcription of enzymes involved in cholesterol and fatty acid biosynthesis via activation of SREBP. <i>Oncogene</i> , <b>2005</b> , 24, 6465-81	9.2	326
20	The transcriptional response to Raf activation is almost completely dependent on Mitogen-activated Protein Kinase Kinase activity and shows a major autocrine component. <i>Molecular Biology of the Cell</i> , <b>2004</b> , 15, 3450-63	3.5	59
19	A heavyweight guide through the array jungle. <i>Journal of Cell Science</i> , <b>2003</b> , 116, 1396-1396	5.3	
18	From membranes to chips - a pocket guide to DNA microarray technology. <i>Journal of Cell Science</i> , <b>2002</b> , 115, 1781-1781	5.3	
17	Analysis of the transcriptional program induced by Raf in epithelial cells. <i>Genes and Development</i> , <b>2001</b> , 15, 981-94	12.6	199

16	Navigating gene expression using microarrays--a technology review. <i>Nature Cell Biology</i> , <b>2001</b> , 3, E190-523.4	392
15	Raf induces TGFbeta production while blocking its apoptotic but not invasive responses: a mechanism leading to increased malignancy in epithelial cells. <i>Genes and Development</i> , <b>2000</b> , 14, 2610-22 <sup>12.6</sup>	234
14	Analysis of gene expression by microarrays: cell biologist's gold mine or minefield?. <i>Journal of Cell Science</i> , <b>2000</b> , 113, 4151-4156	5.3 19
13	Analysis of gene expression by microarrays: cell biologist's gold mine or minefield?. <i>Journal of Cell Science</i> , <b>2000</b> , 113 Pt 23, 4151-6	5.3 7
12	Activation of cyclin A gene expression by the cyclin encoded by human herpesvirus-8. <i>Journal of General Virology</i> , <b>1999</b> , 80 ( Pt 3), 549-555	4.9 17
11	Regulation of cyclin E gene expression by the human papillomavirus type 16 E7 oncoprotein. <i>Journal of General Virology</i> , <b>1999</b> , 80 ( Pt 8), 2103-2113	4.9 12
10	Anchorage-independent transcription of the cyclin A gene induced by the E7 oncoprotein of human papillomavirus type 16. <i>Journal of Virology</i> , <b>1998</b> , 72, 2323-34	6.6 39
9	p27KIP1 blocks cyclin E-dependent transactivation of cyclin A gene expression. <i>Molecular and Cellular Biology</i> , <b>1997</b> , 17, 407-15	4.8 109
8	Infection of primary cells by adeno-associated virus type 2 results in a modulation of cell cycle-regulating proteins. <i>Journal of Virology</i> , <b>1997</b> , 71, 6020-7	6.6 50
7	Down-regulation of cyclin A gene expression upon genotoxic stress correlates with reduced binding of free E2F to the promoter. <i>Cell Growth &amp; Differentiation: the Molecular Biology Journal of the American Association for Cancer Research</i> , <b>1997</b> , 8, 699-710	17
6	Anchorage-dependent transcription of the cyclin A gene. <i>Molecular and Cellular Biology</i> , <b>1996</b> , 16, 4632-8.4	122
5	Adenovirus E1A activates cyclin A gene transcription in the absence of growth factors through interaction with p107. <i>Journal of Virology</i> , <b>1996</b> , 70, 2637-42	6.6 22
4	Cell cycle regulation of the cyclin A gene promoter is mediated by a variant E2F site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1995</b> , 92, 11264-8	11.5 325
3	Sequential activation of cyclin E and cyclin A gene expression by human papillomavirus type 16 E7 through sequences necessary for transformation. <i>Journal of Virology</i> , <b>1995</b> , 69, 6389-99	6.6 133
2	Activation of the E2F transcription factor by cyclin D1 is blocked by p16INK4, the product of the putative tumor suppressor gene MTS1. <i>Oncogene</i> , <b>1994</b> , 9, 3475-82	9.2 38
1	Modulation of cyclin gene expression by adenovirus E1A in a cell line with E1A-dependent conditional proliferation. <i>Journal of Virology</i> , <b>1994</b> , 68, 2206-14	6.6 51