

Almut Schulze

List of Publications by Year in descending order

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98
papers

15,992
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41344

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43889

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all docs

104
docs citations

104
times ranked

22372
citing authors

#	ARTICLE	IF	CITATIONS
1	FSP1 is a glutathione-independent ferroptosis suppressor. <i>Nature</i> , 2019, 575, 693-698.	27.8	1,624
2	Cellular Fatty Acid Metabolism and Cancer. <i>Cell Metabolism</i> , 2013, 18, 153-161.	16.2	1,520
3	SREBP Activity Is Regulated by mTORC1 and Contributes to Akt-Dependent Cell Growth. <i>Cell Metabolism</i> , 2008, 8, 224-236.	16.2	1,103
4	Lipid metabolism in cancer. <i>FEBS Journal</i> , 2012, 279, 2610-2623.	4.7	1,076
5	The multifaceted roles of fatty acid synthesis in cancer. <i>Nature Reviews Cancer</i> , 2016, 16, 732-749.	28.4	1,022
6	How cancer metabolism is tuned for proliferation and vulnerable to disruption. <i>Nature</i> , 2012, 491, 364-373.	27.8	800
7	Hooked on fat: the role of lipid synthesis in cancer metabolism and tumour development. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 1353-1363.	2.4	609
8	Acetyl-CoA Synthetase 2 Promotes Acetate Utilization and Maintains Cancer Cell Growth under Metabolic Stress. <i>Cancer Cell</i> , 2015, 27, 57-71.	16.8	596
9	Fatty Acid Uptake and Lipid Storage Induced by HIF-1 α Contribute to Cell Growth and Survival after Hypoxia-Reoxygenation. <i>Cell Reports</i> , 2014, 9, 349-365.	6.4	498
10	Greasing the Wheels of the Cancer Machine: The Role of Lipid Metabolism in Cancer. <i>Cell Metabolism</i> , 2020, 31, 62-76.	16.2	493
11	Navigating gene expression using microarrays – a technology review. <i>Nature Cell Biology</i> , 2001, 3, E190-E195.	10.3	460
12	PKB/Akt induces transcription of enzymes involved in cholesterol and fatty acid biosynthesis via activation of SREBP. <i>Oncogene</i> , 2005, 24, 6465-6481.	5.9	383
13	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> , 1995, 92, 11264-11268.	7.1	352
14	Raf induces TGF β production while blocking its apoptotic but not invasive responses: a mechanism leading to increased malignancy in epithelial cells. <i>Genes and Development</i> , 2000, 14, 2610-2622.	5.9	270
15	The glutathione redox system is essential to prevent ferroptosis caused by impaired lipid metabolism in clear cell renal cell carcinoma. <i>Oncogene</i> , 2018, 37, 5435-5450.	5.9	239
16	FOXO3a regulates reactive oxygen metabolism by inhibiting mitochondrial gene expression. <i>Cell Death and Differentiation</i> , 2012, 19, 968-979.	11.2	235
17	Analysis of the transcriptional program induced by Raf in epithelial cells. <i>Genes and Development</i> , 2001, 15, 981-994.	5.9	222
18	Sterol regulatory element binding protein-dependent regulation of lipid synthesis supports cell survival and tumor growth. <i>Cancer & Metabolism</i> , 2013, 1, 3.	5.0	207

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19	Balancing glycolytic flux: the role of 6-phosphofructo-2-kinase/fructose 2,6-bisphosphatases in cancer metabolism. <i>Cancer & Metabolism</i> , 2013, 1, 8.	5.0	198
20	Inhibition of fatty acid desaturation is detrimental to cancer cell survival in metabolically compromised environments. <i>Cancer & Metabolism</i> , 2016, 4, 6.	5.0	186
21	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> , 2015, 34, 5128-5140.	5.9	175
22	Functional Metabolic Screen Identifies 6-Phosphofructo-2-Kinase/Fructose-2,6-Biphosphatase 4 as an Important Regulator of Prostate Cancer Cell Survival. <i>Cancer Discovery</i> , 2012, 2, 328-343.	9.4	174
23	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> , 1995, 69, 6389-6399.	3.4	173
24	Induction of Mxi1-SRF by FOXO3a Contributes to Repression of Myc-Dependent Gene Expression. <i>Molecular and Cellular Biology</i> , 2007, 27, 4917-4930.	2.3	158
25	Lipid desaturation – the next step in targeting lipogenesis in cancer?. <i>FEBS Journal</i> , 2016, 283, 2767-2778.	4.7	152
26	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> , 2008, 28, 5886-5898.	2.3	150
27	NFATc1 controls the cytotoxicity of CD8+ T cells. <i>Nature Communications</i> , 2017, 8, 511.	12.8	150
28	Targeting cancer metabolism – aiming at a tumour's sweet-spot. <i>Drug Discovery Today</i> , 2012, 17, 232-241.	6.4	145
29	Anchorage-Dependent Transcription of the Cyclin A Gene. <i>Molecular and Cellular Biology</i> , 1996, 16, 4632-4638.	2.3	132
30	The MYC Oncogene Cooperates with Sterol-Regulated Element-Binding Protein to Regulate Lipogenesis Essential for Neoplastic Growth. <i>Cell Metabolism</i> , 2019, 30, 556-572.e5.	16.2	120
31	p27 ^{KIP1} Blocks Cyclin E-Dependent Transactivation of Cyclin A Gene Expression. <i>Molecular and Cellular Biology</i> , 1997, 17, 407-415.	2.3	116
32	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. <i>Molecular Systems Biology</i> , 2014, 10, 744.	7.2	113
33	Genome-wide analysis of FOXO3 mediated transcription regulation through RNA polymerase II profiling. <i>Molecular Systems Biology</i> , 2013, 9, 638.	7.2	104
34	Involvement of MINK, a Ste20 Family Kinase, in Ras Oncogene-Induced Growth Arrest in Human Ovarian Surface Epithelial Cells. <i>Molecular Cell</i> , 2005, 20, 673-685.	9.7	96
35	Flux balance analysis predicts essential genes in clear cell renal cell carcinoma metabolism. <i>Scientific Reports</i> , 2015, 5, 10738.	3.3	95
36	Lipid Metabolism at the Nexus of Diet and Tumor Microenvironment. <i>Trends in Cancer</i> , 2019, 5, 693-703.	7.4	90

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37	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> , 2009, 37, 278-283.	3.4	83
38	Functional screening identifies MCT4 as a key regulator of breast cancer cell metabolism and survival. <i>Journal of Pathology</i> , 2015, 237, 152-165.	4.5	73
39	Regulation of the SREBP transcription factors by mTORC1. <i>Biochemical Society Transactions</i> , 2011, 39, 495-499.	3.4	71
40	Antagonism between FOXO and MYC Regulates Cellular Powerhouse. <i>Frontiers in Oncology</i> , 2013, 3, 96.	2.8	69
41	A MYC-GCN2-eIF2 γ negative feedback loop limits protein synthesis to prevent MYC-dependent apoptosis in colorectal cancer. <i>Nature Cell Biology</i> , 2019, 21, 1413-1424.	10.3	65
42	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> , 2004, 15, 3450-3463.	2.1	63
43	A computational study of the Warburg effect identifies metabolic targets inhibiting cancer migration. <i>Molecular Systems Biology</i> , 2014, 10, .	7.2	63
44	Regulation of Metabolic Activity by p53. <i>Metabolites</i> , 2017, 7, 21.	2.9	63
45	Infection of primary cells by adeno-associated virus type 2 results in a modulation of cell cycle-regulating proteins. <i>Journal of Virology</i> , 1997, 71, 6020-6027.	3.4	63
46	Direct control of caveolin-1 expression by FOXO transcription factors. <i>Biochemical Journal</i> , 2005, 385, 795-802.	3.7	60
47	Modulation of cyclin gene expression by adenovirus E1A in a cell line with E1A-dependent conditional proliferation. <i>Journal of Virology</i> , 1994, 68, 2206-2214.	3.4	59
48	6-Phosphofructo-2-kinase/fructose-2,6-biphosphatase 4 is essential for p53-null cancer cells. <i>Oncogene</i> , 2017, 36, 3287-3299.	5.9	58
49	Glycolysis Back in the Limelight: Systemic Targeting of HK2 Blocks Tumor Growth. <i>Cancer Discovery</i> , 2013, 3, 1105-1107.	9.4	55
50	Mevalonate Pathway Provides Ubiquinone to Maintain Pyrimidine Synthesis and Survival in p53-Deficient Cancer Cells Exposed to Metabolic Stress. <i>Cancer Research</i> , 2020, 80, 189-203.	0.9	53
51	Non-canonical functions of enzymes facilitate cross-talk between cell metabolic and regulatory pathways. <i>Experimental and Molecular Medicine</i> , 2018, 50, 1-16.	7.7	52
52	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> , 1994, 9, 3475-82.	5.9	46
53	Anchorage-Independent Transcription of the Cyclin A Gene Induced by the E7 Oncoprotein of Human Papillomavirus Type 16. <i>Journal of Virology</i> , 1998, 72, 2323-2334.	3.4	44
54	mTOR Signaling and SREBP Activity Increase FADS2 Expression and Can Activate Sapienate Biosynthesis. <i>Cell Reports</i> , 2020, 31, 107806.	6.4	41

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55	Ferroptosis: The Greasy Side of Cell Death. <i>Chemical Research in Toxicology</i> , 2019, 32, 362-369.	3.3	38
56	Flicking the Warburg Switch—Tyrosine Phosphorylation of Pyruvate Dehydrogenase Kinase Regulates Mitochondrial Activity in Cancer Cells. <i>Molecular Cell</i> , 2011, 44, 846-848.	9.7	36
57	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 & Metabolism</i> , 2018, 6, 8.	5.0	36
58	MiR-205-driven downregulation of cholesterol biosynthesis through SQLE-inhibition identifies therapeutic vulnerability in aggressive prostate cancer. <i>Nature Communications</i> , 2021, 12, 5066.	12.8	34
59	Connecting lysosomes and mitochondria — a novel role for lipid metabolism in cancer cell death. <i>Cell Communication and Signaling</i> , 2019, 17, 87.	6.5	32
60	Modulation of Cellular Migration and Survival by c-Myc through the Downregulation of Urokinase (uPA) and uPA Receptor. <i>Molecular and Cellular Biology</i> , 2010, 30, 1838-1851.	2.3	30
61	Linking Glycogen and Senescence in Cancer Cells. <i>Cell Metabolism</i> , 2012, 16, 687-688.	16.2	29
62	Reprogramming of host glutamine metabolism during <i>Chlamydia trachomatis</i> infection and its key role in peptidoglycan synthesis. <i>Nature Microbiology</i> , 2020, 5, 1390-1402.	13.3	29
63	Adenovirus E1A activates cyclin A gene transcription in the absence of growth factors through interaction with p107. <i>Journal of Virology</i> , 1996, 70, 2637-2642.	3.4	29
64	Cathepsin Inhibition Modulates Metabolism and Polarization of Tumor-Associated Macrophages. <i>Cancers</i> , 2020, 12, 2579.	3.7	28
65	LXR± activation and Raf inhibition trigger lethal lipotoxicity in liver cancer. <i>Nature Cancer</i> , 2021, 2, 201-217.	13.2	27
66	Metabotypes of breast cancer cell lines revealed by non-targeted metabolomics. <i>Metabolic Engineering</i> , 2017, 43, 173-186.	7.0	26
67	Analysis of gene expression by microarrays: cell biologist's gold mine or minefield?. <i>Journal of Cell Science</i> , 2000, 113, 4151-4156.	2.0	24
68	Cholesteryl Esters: Fueling the Fury of Prostate Cancer. <i>Cell Metabolism</i> , 2014, 19, 350-352.	16.2	23
69	Protein kinase D1 deletion in adipocytes enhances energy dissipation and protects against adiposity. <i>EMBO Journal</i> , 2018, 37, .	7.8	23
70	The kinase PKD3 provides negative feedback on cholesterol and triglyceride synthesis by suppressing insulin signaling. <i>Science Signaling</i> , 2019, 12, .	3.6	22
71	Systematic Analysis Reveals that Cancer Mutations Converge on Deregulated Metabolism of Arachidonate and Xenobiotics. <i>Cell Reports</i> , 2016, 16, 878-895.	6.4	21
72	Activation of cyclin A gene expression by the cyclin encoded by human herpesvirus-8.. <i>Journal of General Virology</i> , 1999, 80, 549-555.	2.9	20

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73	Down-regulation of cyclin A gene expression upon genotoxic stress correlates with reduced binding of free E2F to the promoter. <i>Cell Growth & Differentiation: the Molecular Biology Journal of the American Association for Cancer Research</i> , 1997, 8, 699-710.	0.8	19
74	3D Growth of Cancer Cells Elicits Sensitivity to Kinase Inhibitors but Not Lipid Metabolism Modifiers. <i>Molecular Cancer Therapeutics</i> , 2019, 18, 376-388.	4.1	17
75	Regulation of cyclin E gene expression by the human papillomavirus type 16 E7 oncoprotein. <i>Journal of General Virology</i> , 1999, 80, 2103-2113.	2.9	17
76	Tumours use a metabolic twist to make lipids. <i>Nature</i> , 2019, 566, 333-334.	27.8	15
77	Inhibition of fatty acid synthesis induces differentiation and reduces tumor burden in childhood neuroblastoma. <i>IScience</i> , 2021, 24, 102128.	4.1	15
78	The Role of Glucose and Lipid Metabolism in Growth and Survival of Cancer Cells. <i>Recent Results in Cancer Research</i> , 2016, 207, 1-22.	1.8	12
79	A role for the cancer-associated miR-106b~25 cluster in neuronal stem cells. <i>Aging</i> , 2011, 3, 329-331.	3.1	10
80	The big picture: exploring the metabolic cross-talk in cancer. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	9
81	Genetic ablation of S6-kinase does not prevent processing of SREBP1. <i>Advances in Enzyme Regulation</i> , 2011, 51, 280-290.	2.6	8
82	Fatty acid synthesis enables brain metastasis. <i>Nature Cancer</i> , 2021, 2, 374-376.	13.2	7
83	Analysis of gene expression by microarrays: cell biologist's gold mine or minefield?. <i>Journal of Cell Science</i> , 2000, 113 Pt 23, 4151-6.	2.0	7
84	Neutral Sphingomyelinase-2 (NSM 2) Controls T Cell Metabolic Homeostasis and Reprogramming During Activation. <i>Frontiers in Molecular Biosciences</i> , 2020, 7, 217.	3.5	6
85	Integrated Metabolomics and Transcriptomics Analysis of Monolayer and Neurospheres from Established Glioblastoma Cell Lines. <i>Cancers</i> , 2021, 13, 1327.	3.7	5
86	SOAT1: A Suitable Target for Therapy in High-Grade Astrocytic Glioma?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3726.	4.1	5
87	Acetyl-coA synthetase 2 promotes acetate utilization and maintains cell growth under metabolic stress. <i>Cancer & Metabolism</i> , 2014, 2, .	5.0	4
88	Acute systemic knockdown of <i>Atg7</i> is lethal and causes pancreatic destruction in shRNA transgenic mice. <i>Autophagy</i> , 2022, 18, 2880-2893.	9.1	3
89	Cancer metabolism – An update. <i>Molecular Metabolism</i> , 2020, 33, 1.	6.5	2
90	A heavyweight guide through the array jungle. <i>Journal of Cell Science</i> , 2003, 116, 1396-1396.	2.0	0

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91	A fresh look at cancer metabolism in a historical setting. EMBO Reports, 2011, 12, 289-291.	4.5	0
92	Women in Metabolism: Part 3. Cell Metabolism, 2015, 22, 949-953.	16.2	0
93	Metformin targets cholesterol biosynthesis through miR-205-induced SQLE downregulation in prostate cancer. European Urology Supplements, 2018, 17, e2524.	0.1	0
94	MicroRNA-205 driven rewiring of cholesterol biosynthesis identifies therapeutic windows in aggressive prostate cancer. European Urology Supplements, 2019, 18, e3089.	0.1	0
95	Inhibition of cholesterol and steroid synthesis through miR-205 target gene SQLE is an intriguing treatment strategy in various in vitro and in vivo models of prostate cancer. European Urology Open Science, 2020, 19, e1840.	0.4	0
96	From membranes to chips - a pocket guide to DNA microarray technology. Journal of Cell Science, 2002, 115, 1781-1781.	2.0	0
97	Abstract IA05: The role of glucose and lipid metabolism in growth and survival of cancer cells. , 2015, , .		0
98	Abstract 4377: Liver X receptor mediated lipotoxicity represents a treatment option for liver cancer. , 2019, , .		0