

Oliver D K Maddocks

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

5,505
citations

236833

25
h-index

302012

39
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44
all docs

44
docs citations

44
times ranked

9118
citing authors

#	ARTICLE	IF	CITATIONS
1	Serine starvation induces stress and p53-dependent metabolic remodelling in cancer cells. <i>Nature</i> , 2013, 493, 542-546.	13.7	773
2	Serine is a natural ligand and allosteric activator of pyruvate kinase M2. <i>Nature</i> , 2012, 491, 458-462.	13.7	519
3	A roadmap for interpreting ¹³ C metabolite labeling patterns from cells. <i>Current Opinion in Biotechnology</i> , 2015, 34, 189-201.	3.3	513
4	Serine, but Not Glycine, Supports One-Carbon Metabolism and Proliferation of Cancer Cells. <i>Cell Reports</i> , 2014, 7, 1248-1258.	2.9	468
5	Modulating the therapeutic response of tumours to dietary serine and glycine starvation. <i>Nature</i> , 2017, 544, 372-376.	13.7	449
6	Metabolic Regulation by p53 Family Members. <i>Cell Metabolism</i> , 2013, 18, 617-633.	7.2	388
7	Serine Metabolism Supports the Methionine Cycle and DNA/RNA Methylation through De Novo ATP Synthesis in Cancer Cells. <i>Molecular Cell</i> , 2016, 61, 210-221.	4.5	320
8	One-carbon metabolism in cancer. <i>British Journal of Cancer</i> , 2017, 116, 1499-1504.	2.9	318
9	Metabolic regulation by p53. <i>Journal of Molecular Medicine</i> , 2011, 89, 237-245.	1.7	272
10	Control of TSC2-Rheb signaling axis by arginine regulates mTORC1 activity. <i>ELife</i> , 2016, 5, .	2.8	147
11	Serine and Functional Metabolites in Cancer. <i>Trends in Cell Biology</i> , 2017, 27, 645-657.	3.6	138
12	Serine synthesis pathway inhibition cooperates with dietary serine and glycine limitation for cancer therapy. <i>Nature Communications</i> , 2021, 12, 366.	5.8	138
13	Serine one-carbon catabolism with formate overflow. <i>Science Advances</i> , 2016, 2, e1601273.	4.7	128
14	Attaching and Effacing <i>Escherichia coli</i> Downregulate DNA Mismatch Repair Protein In Vitro and Are Associated with Colorectal Adenocarcinomas in Humans. <i>PLoS ONE</i> , 2009, 4, e5517.	1.1	114
15	Persistent mTORC1 signaling in cell senescence results from defects in amino acid and growth factor sensing. <i>Journal of Cell Biology</i> , 2017, 216, 1949-1957.	2.3	106
16	The creatine-phosphagen system is mechanoresponsive in pancreatic adenocarcinoma and fuels invasion and metastasis. <i>Nature Metabolism</i> , 2020, 2, 62-80.	5.1	96
17	Metabolic cross-feeding in imbalanced diets allows gut microbes to improve reproduction and alter host behaviour. <i>Nature Communications</i> , 2020, 11, 4236.	5.8	84
18	An <i>Escherichia coli</i> Effector Protein Promotes Host Mutation via Depletion of DNA Mismatch Repair Proteins. <i>MBio</i> , 2013, 4, e00152-13.	1.8	77

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19	A Neuronal Relay Mediates a Nutrient Responsive Gut/Fat Body Axis Regulating Energy Homeostasis in Adult <i>Drosophila</i> . <i>Cell Metabolism</i> , 2019, 29, 269-284.e10.	7.2	68
20	p53-mediated PHD1 regulates p53-mediated colorectal cancer chemoresistance. <i>EMBO Molecular Medicine</i> , 2015, 7, 1350-1365.	3.3	43
21	Assessment of Tumor Redox Status through $\text{S}^{\text{H}}\text{-(3-[18F]fluoropropyl)-L-Glutamic Acid}$ PET Imaging of System xc ⁺ Activity. <i>Cancer Research</i> , 2022, 79, 853-863.	0.4	42
22	mTORC1 activity is supported by spatial association with focal adhesions. <i>Journal of Cell Biology</i> , 2021, 220, .	2.3	41
23	p53-mediated adaptation to serine starvation is retained by a common tumour-derived mutant. <i>Cancer & Metabolism</i> , 2018, 6, 18.	2.4	36
24	Polyamine pathway activity promotes cysteine essentiality in cancer cells. <i>Nature Metabolism</i> , 2020, 2, 1062-1076.	5.1	35
25	iRFP is a sensitive marker for cell number and tumor growth in high-throughput systems. <i>Cell Cycle</i> , 2014, 13, 220-226.	1.3	34
26	Measurement of Tumor Antioxidant Capacity and Prediction of Chemotherapy Resistance in Preclinical Models of Ovarian Cancer by Positron Emission Tomography. <i>Clinical Cancer Research</i> , 2019, 25, 2471-2482.	3.2	32
27	Localization of NADPH Production: A Wheel within a Wheel. <i>Molecular Cell</i> , 2014, 55, 158-160.	4.5	23
28	Supply and demand: Cellular nutrient uptake and exchange in cancer. <i>Molecular Cell</i> , 2021, 81, 3731-3748.	4.5	18
29	Metabolic tracing reveals novel adaptations to skeletal muscle cell energy production pathways in response to NAD ⁺ depletion. <i>Wellcome Open Research</i> , 2018, 3, 147.	0.9	17
30	Metabolic tracing reveals novel adaptations to skeletal muscle cell energy production pathways in response to NAD ⁺ depletion. <i>Wellcome Open Research</i> , 2018, 3, 147.	0.9	14
31	Mitochondrial ROS signalling requires uninterrupted electron flow and is lost during ageing in flies. <i>GeroScience</i> , 2022, 44, 1961-1974.	2.1	10
32	Engineered diets to improve cancer outcomes. <i>Current Opinion in Biotechnology</i> , 2021, 70, 29-35.	3.3	8
33	Global metabolic alterations in colorectal cancer cells during irinotecan-induced DNA replication stress. <i>Cancer & Metabolism</i> , 2022, 10, .	2.4	8
34	Effects on kidney disease, fertility and development in mice inheriting a protein-truncating <i>Denys-Drash</i> syndrome allele (<i>Wt1</i> tmT396). <i>Transgenic Research</i> , 2008, 17, 459-475.	1.3	5
35	The KRAS-BCAA-BCAT2 axis in PDAC development. <i>Nature Cell Biology</i> , 2020, 22, 139-140.	4.6	5
36	Use of ¹³ C ³ -Serine or ¹³ C ⁵ -Methionine for Studying Methylation Dynamics in Cancer Cell Metabolism and Epigenetics. <i>Methods in Molecular Biology</i> , 2019, 1928, 55-67.	0.4	2

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37	Direct Estimation of Metabolic Flux by Heavy Isotope Labeling Simultaneous with Pathway Inhibition: Metabolic Flux Inhibition Assay. <i>Methods in Molecular Biology</i> , 2019, 1862, 109-119.	0.4	2
38	SERIneALanine Killer: SPT promiscuity inhibits tumour growth via intra-tumoral deoxysphingolipid production. <i>Signal Transduction and Targeted Therapy</i> , 2020, 5, 274.	7.1	0