

Karen Blyth

List of Publications by Year in descending order

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Version: 2024-02-01

107
papers

8,180
citations

50244

46
h-index

53190

85
g-index

127
all docs

127
docs citations

127
times ranked

13565
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	Acetyl-CoA Synthetase 2 Promotes Acetate Utilization and Maintains Cancer Cell Growth under Metabolic Stress. <i>Cancer Cell</i> , 2015, 27, 57-71.	7.7	596
3	Modulating the therapeutic response of tumours to dietary serine and glycine starvation. <i>Nature</i> , 2017, 544, 372-376.	13.7	449
4	The runx genes: gain or loss of function in cancer. <i>Nature Reviews Cancer</i> , 2005, 5, 376-387.	12.8	418
5	Limited Mitochondrial Permeabilization Causes DNA Damage and Genomic Instability in the Absence of Cell Death. <i>Molecular Cell</i> , 2015, 57, 860-872.	4.5	341
6	Improving the metabolic fidelity of cancer models with a physiological cell culture medium. <i>Science Advances</i> , 2019, 5, eaau7314.	4.7	249
7	Pyruvate carboxylation enables growth of SDH-deficient cells by supporting aspartate biosynthesis. <i>Nature Cell Biology</i> , 2015, 17, 1317-1326.	4.6	226
8	Fumarate induces redox-dependent senescence by modifying glutathione metabolism. <i>Nature Communications</i> , 2015, 6, 6001.	5.8	208
9	Acetate Recapturing by Nuclear Acetyl-CoA Synthetase 2 Prevents Loss of Histone Acetylation during Oxygen and Serum Limitation. <i>Cell Reports</i> , 2017, 18, 647-658.	2.9	202
10	Mitochondrial permeabilization engages NF- κ B-dependent anti-tumour activity under caspase deficiency. <i>Nature Cell Biology</i> , 2017, 19, 1116-1129.	4.6	181
11	Dynamic ROS Control by TIGAR Regulates the Initiation and Progression of Pancreatic Cancer. <i>Cancer Cell</i> , 2020, 37, 168-182.e4.	7.7	159
12	TIGAR Is Required for Efficient Intestinal Regeneration and Tumorigenesis. <i>Developmental Cell</i> , 2013, 25, 463-477.	3.1	154
13	N-WASP coordinates the delivery and F-actin-mediated capture of MT1-MMP at invasive pseudopods. <i>Journal of Cell Biology</i> , 2012, 199, 527-544.	2.3	151
14	CRISPR/Cas9-Mediated <i>Trp53</i> and <i>Brca2</i> Knockout to Generate Improved Murine Models of Ovarian High-Grade Serous Carcinoma. <i>Cancer Research</i> , 2016, 76, 6118-6129.	0.4	145
15	X-SCID transgene leukaemogenicity. <i>Nature</i> , 2006, 443, E5-E6.	13.7	144
16	Tumor matrix stiffness promotes metastatic cancer cell interaction with the endothelium. <i>EMBO Journal</i> , 2017, 36, 2373-2389.	3.5	144
17	Serine synthesis pathway inhibition cooperates with dietary serine and glycine limitation for cancer therapy. <i>Nature Communications</i> , 2021, 12, 366.	5.8	138
18	MCL-1 is a prognostic indicator and drug target in breast cancer. <i>Cell Death and Disease</i> , 2018, 9, 19.	2.7	134

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19	<i>In vivo</i> models in breast cancer research: progress, challenges and future directions. <i>DMM Disease Models and Mechanisms</i> , 2017, 10, 359-371.	1.2	131
20	HIRA orchestrates a dynamic chromatin landscape in senescence and is required for suppression of neoplasia. <i>Genes and Development</i> , 2014, 28, 2712-2725.	2.7	128
21	Serine one-carbon catabolism with formate overflow. <i>Science Advances</i> , 2016, 2, e1601273.	4.7	128
22	Cancer-Specific Loss of p53 Leads to a Modulation of Myeloid and T Cell Responses. <i>Cell Reports</i> , 2020, 30, 481-496.e6.	2.9	111
23	Runx2: A novel oncogenic effector revealed by <i>in vivo</i> complementation and retroviral tagging. <i>Oncogene</i> , 2001, 20, 295-302.	2.6	101
24	Runx2 and MYC Collaborate in Lymphoma Development by Suppressing Apoptotic and Growth Arrest Pathways <i>In vivo</i> . <i>Cancer Research</i> , 2006, 66, 2195-2201.	0.4	98
25	Mutant p53s generate pro-invasive niches by influencing exosome podocalyxin levels. <i>Nature Communications</i> , 2018, 9, 5069.	5.8	91
26	Increased formate overflow is a hallmark of oxidative cancer. <i>Nature Communications</i> , 2018, 9, 1368.	5.8	90
27	Reversed argininosuccinate lyase activity in fumarate hydratase-deficient cancer cells. <i>Cancer & Metabolism</i> , 2013, 1, 12.	2.4	87
28	Opposing effects of TIGAR- and RAC1-derived ROS on Wnt-driven proliferation in the mouse intestine. <i>Genes and Development</i> , 2016, 30, 52-63.	2.7	87
29	A full-length Cbfa1 gene product perturbs T-cell development and promotes lymphomagenesis in synergy with MYC. <i>Oncogene</i> , 1999, 18, 7124-7134.	2.6	83
30	Runx2 in normal tissues and cancer cells: A developing story. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 45, 117-123.	0.6	81
31	Secreted CLIC3 drives cancer progression through its glutathione-dependent oxidoreductase activity. <i>Nature Communications</i> , 2017, 8, 14206.	5.8	81
32	Expression of RUNX1 Correlates with Poor Patient Prognosis in Triple Negative Breast Cancer. <i>PLoS ONE</i> , 2014, 9, e100759.	1.1	80
33	Enforced Expression of <i>Runx2</i> Perturbs T Cell Development at a Stage Coincident with β 2-Selection. <i>Journal of Immunology</i> , 2002, 169, 2866-2874.	0.4	71
34	CRISPR/Cas9-derived models of ovarian high grade serous carcinoma targeting Brca1, Pten and Nf1, and correlation with platinum sensitivity. <i>Scientific Reports</i> , 2017, 7, 16827.	1.6	68
35	RUNX2 in mammary gland development and breast cancer. <i>Journal of Cellular Physiology</i> , 2013, 228, 1137-1142.	2.0	66
36	Glutaminolysis drives membrane trafficking to promote invasiveness of breast cancer cells. <i>Nature Communications</i> , 2017, 8, 2255.	5.8	65

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37	Runx1 Deficiency Protects Against Adverse Cardiac Remodeling After Myocardial Infarction. <i>Circulation</i> , 2018, 137, 57-70.	1.6	65
38	Wnt signaling potentiates neovogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16009-16014.	3.3	61
39	The Initiator Methionine tRNA Drives Secretion of Type II Collagen from Stromal Fibroblasts to Promote Tumor Growth and Angiogenesis. <i>Current Biology</i> , 2016, 26, 755-765.	1.8	57
40	Proviral insertion indicates a dominant oncogenic role for Runx1/AML-1 in T-cell lymphoma. <i>Cancer Research</i> , 2002, 62, 7181-5.	0.4	56
41	Activated Mutant NRasQ61K Drives Aberrant Melanocyte Signaling, Survival, and Invasiveness via a Rac1-Dependent Mechanism. <i>Journal of Investigative Dermatology</i> , 2012, 132, 2610-2621.	0.3	55
42	Immune-regulated IDO1-dependent tryptophan metabolism is source of one-carbon units for pancreatic cancer and stellate cells. <i>Molecular Cell</i> , 2021, 81, 2290-2302.e7.	4.5	54
43	The Runx genes as dominant oncogenes. <i>Blood Cells, Molecules, and Diseases</i> , 2003, 30, 194-200.	0.6	53
44	RUNX2 in subtype specific breast cancer and mammary gland differentiation. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 525-34.	1.2	53
45	Tumours derived from HTLV-Itax transgenic mice are characterized by enhanced levels of apoptosis and oncogene expression. <i>Journal of Pathology</i> , 1998, 186, 209-214.	2.1	51
46	Tiam1-Rac Signaling Counteracts Eg5 during Bipolar Spindle Assembly to Facilitate Chromosome Congression. <i>Current Biology</i> , 2010, 20, 669-675.	1.8	51
47	RUNX1 transformation of primary embryonic fibroblasts is revealed in the absence of p53. <i>Oncogene</i> , 2004, 23, 5476-5486.	2.6	49
48	Runx1 promotes B-cell survival and lymphoma development. <i>Blood Cells, Molecules, and Diseases</i> , 2009, 43, 12-19.	0.6	47
49	Insertional Mutagenesis Reveals Progression Genes and Checkpoints in MYC/Runx2 Lymphomas. <i>Cancer Research</i> , 2007, 67, 5126-5133.	0.4	44
50	The initiator methionine tRNA drives cell migration and invasion leading to increased metastatic potential in melanoma. <i>Biology Open</i> , 2016, 5, 1371-1379.	0.6	44
51	BRD4-mediated repression of p53 is a target for combination therapy in AML. <i>Nature Communications</i> , 2021, 12, 241.	5.8	43
52	Runx2 Disruption Promotes Immortalization and Confers Resistance to Oncogene-Induced Senescence in Primary Murine Fibroblasts. <i>Cancer Research</i> , 2007, 67, 11263-11271.	0.4	42
53	Sensitivity to myc-induced apoptosis is retained in spontaneous and transplanted lymphomas of CD2-mycERTM mice. <i>Oncogene</i> , 2000, 19, 773-782.	2.6	41
54	Condensin II mutation causes T-cell lymphoma through tissue-specific genome instability. <i>Genes and Development</i> , 2016, 30, 2173-2186.	2.7	41

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55	Migration through physical constraints is enabled by MAPK-induced cell softening via actin cytoskeleton re-organization. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	37
56	Recurrent MLK4 Loss-of-Function Mutations Suppress JNK Signaling to Promote Colon Tumorigenesis. <i>Cancer Research</i> , 2016, 76, 724-735.	0.4	36
57	Polyamine pathway activity promotes cysteine essentiality in cancer cells. <i>Nature Metabolism</i> , 2020, 2, 1062-1076.	5.1	35
58	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
59	RUNX1 marks a luminal castration-resistant lineage established at the onset of prostate development. <i>ELife</i> , 2020, 9, .	2.8	34
60	Formate induces a metabolic switch in nucleotide and energy metabolism. <i>Cell Death and Disease</i> , 2020, 11, 310.	2.7	31
61	Runx2 contributes to the regenerative potential of the mammary epithelium. <i>Scientific Reports</i> , 2015, 5, 15658.	1.6	30
62	Oncogene-Expressing Senescent Melanocytes Up-Regulate MHC Class II, a Candidate Melanoma Suppressor Function. <i>Journal of Investigative Dermatology</i> , 2017, 137, 2197-2207.	0.3	30
63	A Novel Model of SCID-X1 Reconstitution Reveals Predisposition to Retrovirus-induced Lymphoma but No Evidence of β C Gene Oncogenicity. <i>Molecular Therapy</i> , 2009, 17, 1031-1038.	3.7	29
64	Breast cancer dependence on MCL-1 is due to its canonical anti-apoptotic function. <i>Cell Death and Differentiation</i> , 2021, 28, 2589-2600.	5.0	28
65	Apoptotic stress-induced FGF signalling promotes non-cell autonomous resistance to cell death. <i>Nature Communications</i> , 2021, 12, 6572.	5.8	28
66	In-Depth Proteomics Identifies a Role for Autophagy in Controlling Reactive Oxygen Species Mediated Endothelial Permeability. <i>Journal of Proteome Research</i> , 2016, 15, 2187-2197.	1.8	22
67	The enigmatic role of RUNX1 in female-related cancers – current knowledge & future perspectives. <i>FEBS Journal</i> , 2017, 284, 2345-2362.	2.2	22
68	RUNX1 Is a Driver of Renal Cell Carcinoma Correlating with Clinical Outcome. <i>Cancer Research</i> , 2020, 80, 2325-2339.	0.4	21
69	Increased T-cell Infiltration Elicited by <i>Erk5</i> Deletion in a <i>Pten</i> -Deficient Mouse Model of Prostate Carcinogenesis. <i>Cancer Research</i> , 2017, 77, 3158-3168.	0.4	20
70	Dual G9A/EZH2 Inhibition Stimulates Antitumor Immune Response in Ovarian High-Grade Serous Carcinoma. <i>Molecular Cancer Therapeutics</i> , 2022, 21, 522-534.	1.9	20
71	Acute Inhibition of MEK Suppresses Congenital Melanocytic Nevus Syndrome in a Murine Model Driven by Activated NRAS and Wnt Signaling. <i>Journal of Investigative Dermatology</i> , 2015, 135, 2093-2101.	0.3	19
72	Development of an inducible mouse model of iRFP713 to track recombinase activity and tumour development in vivo. <i>Scientific Reports</i> , 2017, 7, 1837.	1.6	19

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73	An ARF GTPase module promoting invasion and metastasis through regulating phosphoinositide metabolism. <i>Nature Communications</i> , 2021, 12, 1623.	5.8	18
74	The Sharing Experimental Animal Resources, Coordinating Holdings (SEARCH) Framework: Encouraging Reduction, Replacement, and Refinement in Animal Research. <i>PLoS Biology</i> , 2017, 15, e2000719.	2.6	18
75	Runx Genes in Breast Cancer and the Mammary Lineage. <i>Advances in Experimental Medicine and Biology</i> , 2017, 962, 353-368.	0.8	16
76	RIPK3 promotes adenovirus type 5 activity. <i>Cell Death and Disease</i> , 2017, 8, 3206.	2.7	16
77	RUNX1 Dosage in Development and Cancer. <i>Molecules and Cells</i> , 2020, 43, 126-138.	1.0	16
78	The MSP β -RON axis stimulates cancer cell growth in models of triple negative breast cancer. <i>Molecular Oncology</i> , 2020, 14, 1868-1880.	2.1	15
79	Complex Interplay between the RUNX Transcription Factors and Wnt/ β -Catenin Pathway in Cancer: A Tango in the Night. <i>Molecules and Cells</i> , 2020, 43, 188-197.	1.0	15
80	Frequent Infection of Human Cancer Xenografts with Murine Endogenous Retroviruses in Vivo. <i>Viruses</i> , 2015, 7, 2014-2029.	1.5	13
81	Annexin A8 Identifies a Subpopulation of Transiently Quiescent c-Kit Positive Luminal Progenitor Cells of the Ductal Mammary Epithelium. <i>PLoS ONE</i> , 2015, 10, e0119718.	1.1	13
82	p53-mediated redox control promotes liver regeneration and maintains liver function in response to CCl ₄ . <i>Cell Death and Differentiation</i> , 2022, 29, 514-526.	5.0	13
83	Selection for Loss of p53 Function in T-Cell Lymphomagenesis Is Alleviated by Moloney Murine Leukemia Virus Infection in myc Transgenic Mice. <i>Journal of Virology</i> , 2001, 75, 9790-9798.	1.5	12
84	SEARCHBreast: a new resource to locate and share surplus archival material from breast cancer animal models to help address the 3Rs. <i>Breast Cancer Research and Treatment</i> , 2016, 156, 447-452.	1.1	11
85	Increasing the bactofection capacity of a mammalian expression vector by removal of the f1 ori. <i>Cancer Gene Therapy</i> , 2019, 26, 183-194.	2.2	11
86	Loss of RAF kinase inhibitor protein is involved in myelomonocytic differentiation and aggravates RAS-driven myeloid leukemogenesis. <i>Haematologica</i> , 2020, 105, 375-386.	1.7	11
87	A role for CBF β in maintaining the metastatic phenotype of breast cancer cells. <i>Oncogene</i> , 2020, 39, 2624-2637.	2.6	11
88	Brf1 loss and not overexpression disrupts tissues homeostasis in the intestine, liver and pancreas. <i>Cell Death and Differentiation</i> , 2019, 26, 2535-2550.	5.0	10
89	BRF1 accelerates prostate tumourigenesis and perturbs immune infiltration. <i>Oncogene</i> , 2020, 39, 1797-1806.	2.6	10
90	MICAL1 regulates actin cytoskeleton organization, directional cell migration and the growth of human breast cancer cells as orthotopic xenograft tumours. <i>Cancer Letters</i> , 2021, 519, 226-236.	3.2	10

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91	Increased apoptotic sensitivity of glioblastoma enables therapeutic targeting by BH3-mimetics. <i>Cell Death and Differentiation</i> , 2022, 29, 2089-2104.	5.0	10
92	SEARCHBreast Workshop Proceedings: 3D Modelling of Breast Cancer. <i>ATLA Alternatives To Laboratory Animals</i> , 2015, 43, 367-375.	0.7	7
93	Selection of established tumour cells through narrow diameter micropores enriches for elevated Ras/Raf/MEK/ERK MAPK signalling and enhanced tumour growth. <i>Small GTPases</i> , 2021, 12, 294-310.	0.7	7
94	Differential requirements for MDM2 E3 activity during embryogenesis and in adult mice. <i>Genes and Development</i> , 2021, 35, 117-132.	2.7	6
95	The right time, the right place: will targeting human cancer-associated mutations to the mouse provide the perfect preclinical model?. <i>Current Opinion in Genetics and Development</i> , 2012, 22, 28-35.	1.5	5
96	Loss of RAF Kinase Inhibitor Protein Is a Frequent Event In Acute Myeloid Leukemia with a Monocytic Phenotype and Cooperates with Mutant RAS In Malignant Transformation. <i>Blood</i> , 2010, 116, 4185-4185.	0.6	5
97	DNMT3B Oncogenic Activity in Human Intestinal Cancer Is Not Linked to CIMP or BRAFV600E Mutation. <i>IScience</i> , 2020, 23, 100838.	1.9	4
98	NUPR1 protects liver from lipotoxic injury by improving the endoplasmic reticulum stress response. <i>FASEB Journal</i> , 2021, 35, e21395.	0.2	4
99	A noninvasive iRFP713 p53 reporter reveals dynamic p53 activity in response to irradiation and liver regeneration in vivo. <i>Science Signaling</i> , 2022, 15, eabd9099.	1.6	4
100	Impact of Formate Supplementation on Body Weight and Plasma Amino Acids. <i>Nutrients</i> , 2020, 12, 2181.	1.7	3
101	SEARCHBreast: a new online resource to make surplus material from in vivo models of breast cancer visible and accessible to researchers. <i>Breast Cancer Research</i> , 2016, 18, 59.	2.2	2
102	BET Inhibitors Potentiate Activation of p53 and Killing of AML By MDM2 Inhibitors – a Candidate Combination Therapy. <i>Blood</i> , 2018, 132, 3912-3912.	0.6	2
103	Introducing SEARCHBreast: a virtual resource to facilitate sharing of surplus animal material developed for breast cancer research. <i>Npj Breast Cancer</i> , 2016, 2, 16020.	2.3	1
104	Somatic base editing to model oncogenic drivers in breast cancer. <i>Lab Animal</i> , 2020, 49, 115-116.	0.2	1
105	SEARCHBreast: An online resource designed to increase the efficiency of using materials derived from breast cancer studies in animals. <i>Journal of Pathology</i> , 2016, 240, 120-120.	2.1	0
106	Role of innate immune responses in the effectiveness of oncolytic adenovirus as an anticancer agent. <i>Lancet, The</i> , 2017, 389, S61.	6.3	0
107	The SEARCHBreast Portal: A Virtual Bioresource to Facilitate the Sharing of Surplus Animal Materials Derived from Breast Cancer Studies. <i>Open Journal of Bioresources</i> , 2016, 3, .	1.5	0