

# 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	p53-mediated redox control promotes liver regeneration and maintains liver function in response to CCL4. <i>Cell Death and Differentiation</i> , 2022, 29, 514-526.	5.0	13
2	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
3	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
4	Increased apoptotic sensitivity of glioblastoma enables therapeutic targeting by BH3-mimetics. <i>Cell Death and Differentiation</i> , 2022, 29, 2089-2104.	5.0	10
5	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
6	NUPR1 protects liver from lipotoxic injury by improving the endoplasmic reticulum stress response. <i>FASEB Journal</i> , 2021, 35, e21395.	0.2	4
7	An ARF GTPase module promoting invasion and metastasis through regulating phosphoinositide metabolism. <i>Nature Communications</i> , 2021, 12, 1623.	5.8	18
8	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
9	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
10	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
11	BRD4-mediated repression of p53 is a target for combination therapy in AML. <i>Nature Communications</i> , 2021, 12, 241.	5.8	43
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	Differential requirements for MDM2 E3 activity during embryogenesis and in adult mice. <i>Genes and Development</i> , 2021, 35, 117-132.	2.7	6
14	Apoptotic stress-induced FGF signalling promotes non-cell autonomous resistance to cell death. <i>Nature Communications</i> , 2021, 12, 6572.	5.8	28
15	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
16	BRF1 accelerates prostate tumourigenesis and perturbs immune infiltration. <i>Oncogene</i> , 2020, 39, 1797-1806.	2.6	10
17	Polyamine pathway activity promotes cysteine essentiality in cancer cells. <i>Nature Metabolism</i> , 2020, 2, 1062-1076.	5.1	35
18	Impact of Formate Supplementation on Body Weight and Plasma Amino Acids. <i>Nutrients</i> , 2020, 12, 2181.	1.7	3

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19	Formate induces a metabolic switch in nucleotide and energy metabolism. <i>Cell Death and Disease</i> , 2020, 11, 310.	2.7	31
20	The MSPâ€šRON axis stimulates cancer cell growth in models of triple negative breast cancer. <i>Molecular Oncology</i> , 2020, 14, 1868-1880.	2.1	15
21	Somatic base editing to model oncogenic drivers in breast cancer. <i>Lab Animal</i> , 2020, 49, 115-116.	0.2	1
22	DNMT3B Oncogenic Activity in Human Intestinal Cancer Is Not Linked to CIMP or BRAFV600E Mutation. <i>IScience</i> , 2020, 23, 100838.	1.9	4
23	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
24	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
25	A role for CBF $\beta$ in maintaining the metastatic phenotype of breast cancer cells. <i>Oncogene</i> , 2020, 39, 2624-2637.	2.6	11
26	RUNX1 Is a Driver of Renal Cell Carcinoma Correlating with Clinical Outcome. <i>Cancer Research</i> , 2020, 80, 2325-2339.	0.4	21
27	RUNX1 Dosage in Development and Cancer. <i>Molecules and Cells</i> , 2020, 43, 126-138.	1.0	16
28	Complex Interplay between the RUNX Transcription Factors and Wnt/ $\beta$ -Catenin Pathway in Cancer: A Tango in the Night. <i>Molecules and Cells</i> , 2020, 43, 188-197.	1.0	15
29	RUNX1 marks a luminal castration-resistant lineage established at the onset of prostate development. <i>ELife</i> , 2020, 9, .	2.8	34
30	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
31	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
32	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
33	Improving the metabolic fidelity of cancer models with a physiological cell culture medium. <i>Science Advances</i> , 2019, 5, eaau7314.	4.7	249
34	Increased formate overflow is a hallmark of oxidative cancer. <i>Nature Communications</i> , 2018, 9, 1368.	5.8	90
35	MCL-1 is a prognostic indicator and drug target in breast cancer. <i>Cell Death and Disease</i> , 2018, 9, 19.	2.7	134
36	Runx1 Deficiency Protects Against Adverse Cardiac Remodeling After Myocardial Infarction. <i>Circulation</i> , 2018, 137, 57-70.	1.6	65

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37	Mutant p53s generate pro-invasive niches by influencing exosome podocalyxin levels. <i>Nature Communications</i> , 2018, 9, 5069.	5.8	91
38	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
39	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
40	Secreted CLIC3 drives cancer progression through its glutathione-dependent oxidoreductase activity. <i>Nature Communications</i> , 2017, 8, 14206.	5.8	81
41	Modulating the therapeutic response of tumours to dietary serine and glycine starvation. <i>Nature</i> , 2017, 544, 372-376.	13.7	449
42	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
43	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
44	Runx Genes in Breast Cancer and the Mammary Lineage. <i>Advances in Experimental Medicine and Biology</i> , 2017, 962, 353-368.	0.8	16
45	<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
46	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
47	The enigmatic role of <i>RUNX1</i> in female-related cancers – current knowledge & future perspectives. <i>FEBS Journal</i> , 2017, 284, 2345-2362.	2.2	22
48	RIPK3 promotes adenovirus type 5 activity. <i>Cell Death and Disease</i> , 2017, 8, 3206.	2.7	16
49	CRISPR/Cas9-derived models of ovarian high grade serous carcinoma targeting <i>Brca1</i> , <i>Pten</i> and <i>Nf1</i> , and correlation with platinum sensitivity. <i>Scientific Reports</i> , 2017, 7, 16827.	1.6	68
50	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
51	Tumor matrix stiffness promotes metastatic cancer cell interaction with the endothelium. <i>EMBO Journal</i> , 2017, 36, 2373-2389.	3.5	144
52	Glutaminolysis drives membrane trafficking to promote invasiveness of breast cancer cells. <i>Nature Communications</i> , 2017, 8, 2255.	5.8	65
53	Mitochondrial permeabilization engages NF- $\kappa$ B-dependent anti-tumour activity under caspase deficiency. <i>Nature Cell Biology</i> , 2017, 19, 1116-1129.	4.6	181
54	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

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55	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
56	Condensin II mutation causes T-cell lymphoma through tissue-specific genome instability. <i>Genes and Development</i> , 2016, 30, 2173-2186.	2.7	41
57	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
58	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
59	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
60	Serine one-carbon catabolism with formate overflow. <i>Science Advances</i> , 2016, 2, e1601273.	4.7	128
61	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
62	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
63	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
64	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
65	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
66	Recurrent MLK4 Loss-of-Function Mutations Suppress JNK Signaling to Promote Colon Tumorigenesis. <i>Cancer Research</i> , 2016, 76, 724-735.	0.4	36
67	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
68	Runx2 contributes to the regenerative potential of the mammary epithelium. <i>Scientific Reports</i> , 2015, 5, 15658.	1.6	30
69	SEARCHBreast Workshop Proceedings: 3D Modelling of Breast Cancer. <i>ATLA Alternatives To Laboratory Animals</i> , 2015, 43, 367-375.	0.7	7
70	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
71	Fumarate induces redox-dependent senescence by modifying glutathione metabolism. <i>Nature Communications</i> , 2015, 6, 6001.	5.8	208
72	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

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73	Frequent Infection of Human Cancer Xenografts with Murine Endogenous Retroviruses in Vivo. <i>Viruses</i> , 2015, 7, 2014-2029.	1.5	13
74	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
75	Pyruvate carboxylation enables growth of SDH-deficient cells by supporting aspartate biosynthesis. <i>Nature Cell Biology</i> , 2015, 17, 1317-1326.	4.6	226
76	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
77	Expression of RUNX1 Correlates with Poor Patient Prognosis in Triple Negative Breast Cancer. <i>PLoS ONE</i> , 2014, 9, e100759.	1.1	80
78	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
79	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
80	RUNX2 in subtype specific breast cancer and mammary gland differentiation. <i>DMM Disease Models and Mechanisms</i> , 2014, 7, 525-34.	1.2	53
81	Reversed argininosuccinate lyase activity in fumarate hydratase-deficient cancer cells. <i>Cancer &amp; Metabolism</i> , 2013, 1, 12.	2.4	87
82	TIGAR Is Required for Efficient Intestinal Regeneration and Tumorigenesis. <i>Developmental Cell</i> , 2013, 25, 463-477.	3.1	154
83	Serine starvation induces stress and p53-dependent metabolic remodelling in cancer cells. <i>Nature</i> , 2013, 493, 542-546.	13.7	773
84	RUNX2 in mammary gland development and breast cancer. <i>Journal of Cellular Physiology</i> , 2013, 228, 1137-1142.	2.0	66
85	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
86	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
87	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
88	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
89	Tiam1-Rac Signaling Counteracts Eg5 during Bipolar Spindle Assembly to Facilitate Chromosome Congression. <i>Current Biology</i> , 2010, 20, 669-675.	1.8	51
90	Runx2 in normal tissues and cancer cells: A developing story. <i>Blood Cells, Molecules, and Diseases</i> , 2010, 45, 117-123.	0.6	81

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91	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
92	A Novel Model of SCID-X1 Reconstitution Reveals Predisposition to Retrovirus-induced Lymphoma but No Evidence of I <sup>3</sup> C Gene Oncogenicity. <i>Molecular Therapy</i> , 2009, 17, 1031-1038.	3.7	29
93	Runx1 promotes B-cell survival and lymphoma development. <i>Blood Cells, Molecules, and Diseases</i> , 2009, 43, 12-19.	0.6	47
94	Insertional Mutagenesis Reveals Progression Genes and Checkpoints in MYC/Runx2 Lymphomas. <i>Cancer Research</i> , 2007, 67, 5126-5133.	0.4	44
95	<i>Runx2</i> 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
96	X-SCID transgene leukaemogenicity. <i>Nature</i> , 2006, 443, E5-E6.	13.7	144
97	Runx2 and MYC Collaborate in Lymphoma Development by Suppressing Apoptotic and Growth Arrest Pathways In vivo. <i>Cancer Research</i> , 2006, 66, 2195-2201.	0.4	98
98	The runx genes: gain or loss of function in cancer. <i>Nature Reviews Cancer</i> , 2005, 5, 376-387.	12.8	418
99	RUNX1 transformation of primary embryonic fibroblasts is revealed in the absence of p53. <i>Oncogene</i> , 2004, 23, 5476-5486.	2.6	49
100	The Runx genes as dominant oncogenes. <i>Blood Cells, Molecules, and Diseases</i> , 2003, 30, 194-200.	0.6	53
101	Enforced Expression of <i>Runx2</i> Perturbs T Cell Development at a Stage Coincident with I <sup>2</sup> -Selection. <i>Journal of Immunology</i> , 2002, 169, 2866-2874.	0.4	71
102	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
103	Runx2: A novel oncogenic effector revealed by in vivo complementation and retroviral tagging. <i>Oncogene</i> , 2001, 20, 295-302.	2.6	101
104	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
105	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
106	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
107	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