Daniele M Gilkes

List of Publications by Year
in descending order

67 papers	8,322 citations	61857 43 h-index	110170 64 g-index
73 all docs	73 docs citations	73 times ranked	13726 citing authors

#	Article	IF	Citations
1	Hypoxia and the extracellular matrix: drivers of tumour metastasis. Nature Reviews Cancer, 2014, 14, 430-439.	12.8	1,110
2	Hypoxia-inducible factors are required for chemotherapy resistance of breast cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E5429-38.	3.3	419
3	Hypoxia-inducible Factor 1 (HIF-1) Promotes Extracellular Matrix Remodeling under Hypoxic Conditions by Inducing P4HA1, P4HA2, and PLOD2 Expression in Fibroblasts. Journal of Biological Chemistry, 2013, 288, 10819-10829.	1.6	406
4	Hypoxia-inducible factor 1 is a master regulator of breast cancer metastatic niche formation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16369-16374.	3.3	375
5	Hypoxia-inducible factors and RAB22A mediate formation of microvesicles that stimulate breast cancer invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3234-42.	3.3	367
6	HIF-1 regulates CD47 expression in breast cancer cells to promote evasion of phagocytosis and maintenance of cancer stem cells. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E6215-23.	3.3	299
7	Collagen Prolyl Hydroxylases Are Essential for Breast Cancer Metastasis. Cancer Research, 2013, 73, 3285-3296.	0.4	251
8	Role of hypoxia-inducible factors in breast cancer metastasis. Future Oncology, 2013, 9, 1623-1636.	1.1	225
9	ATM and Chk2-dependent phosphorylation of MDMX contribute to p53 activation after DNA damage. EMBO Journal, 2005, 24, 3411-3422.	3.5	221
10	Procollagen Lysyl Hydroxylase 2 Is Essential for Hypoxia-Induced Breast Cancer Metastasis. Molecular Cancer Research, 2013, 11, 456-466.	1.5	216
11	MDMX Overexpression Prevents p53 Activation by the MDM2 Inhibitor Nutlin. Journal of Biological Chemistry, 2006, 281, 33030-33035.	1.6	201
12	PHGDH Expression Is Required for Mitochondrial Redox Homeostasis, Breast Cancer Stem Cell Maintenance, and Lung Metastasis. Cancer Research, 2016, 76, 4430-4442.	0.4	201
13	Efficient p53 Activation and Apoptosis by Simultaneous Disruption of Binding to MDM2 and MDMX. Cancer Research, 2007, 67, 8810-8817.	0.4	195
14	Inhibitors of hypoxia-inducible factor 1 block breast cancer metastatic niche formation and lung metastasis. Journal of Molecular Medicine, 2012, 90, 803-815.	1.7	191
15	Activation of Dendritic Cells via Inhibition of Jak2/STAT3 Signaling. Journal of Immunology, 2005, 175, 4338-4346.	0.4	189
16	Hypoxia-inducible factorâ€"dependent breast cancerâ€"mesenchymal stem cell bidirectional signaling promotes metastasis. Journal of Clinical Investigation, 2013, 123, 189-205.	3.9	171
17	Hypoxia-inducible factor-dependent signaling between triple-negative breast cancer cells and mesenchymal stem cells promotes macrophage recruitment. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E2120-9.	3.3	170
18	Hypoxia-inducible factors mediate coordinated RhoA-ROCK1 expression and signaling in breast cancer cells. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E384-93.	3.3	165

#	Article	IF	Citations
19	Hypoxia-Inducible Factors and Cancer. Current Sleep Medicine Reports, 2017, 3, 1-10.	0.7	154
20	Hypoxia-inducible factorâ€“dependent breast cancerâ€“mesenchymal stem cell bidirectional signaling promotes metastasis. Journal of Clinical Investigation, 2013, 123, 1402-1402.	3.9	137
21	Fate-mapping post-hypoxic tumor cells reveals a ROS-resistant phenotype that promotes metastasis. Nature Communications, 2019, 10, 4862.	5.8	136
22	Synergistic IL-6 and IL-8 paracrine signalling pathway infers a strategy to inhibit tumour cell migration. Nature Communications, 2017, 8, 15584.	5.8	133
23	MDMX regulation of p53 response to ribosomal stress. EMBO Journal, 2006, 25, 5614-5625.	3.5	128
24	Sirtuin-7 Inhibits the Activity of Hypoxia-inducible Factors. Journal of Biological Chemistry, 2013, 288, 20768-20775.	1.6	127
25	Single-cell morphology encodes metastatic potential. Science Advances, 2020, 6, eaaw6938.	4.7	112
26	BRCA1 and BRCA2 mutations and treatment strategies for breast cancer. Integrative Cancer Science and Therapeutics, 2017, 4, .	0.1	111
27	Regulation of MDMX nuclear import and degradation by Chk2 and 14-3-3. EMBO Journal, 2006, 25, 1196-1206.	3.5	107
28	Hypoxia-inducible factor 1 mediates TAZ expression and nuclear localization to induce the breast cancer stem cell phenotype. Oncotarget, 2014, 5, 12509-12527.	0.8	100
29	Hypoxia Selectively Enhances Integrin Î±5Î²1 Receptor Expression in Breast Cancer to Promote Metastasis. Molecular Cancer Research, 2017, 15, 723-734.	1.5	99
30	Ganetespib blocks HIF-1 activity and inhibits tumor growth, vascularization, stem cell maintenance, invasion, and metastasis in orthotopic mouse models of triple-negative breast cancer. Journal of Molecular Medicine, 2014, 92, 151-164.	1.7	98
31	A Nontranscriptional Role for HIF-1Î± as a Direct Inhibitor of DNA Replication. Science Signaling, 2013, 6, ra10.	1.6	95
32	Cyclin-dependent kinases regulate lysosomal degradation of hypoxia-inducible factor 1Î± to promote cell-cycle progression. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, E3325-34.	3.3	83
33	Biophysical and biomolecular determination of cellular age in humans. Nature Biomedical Engineering, 2017, 1, .	11.6	74
34	Collective cancer cell invasion induced by coordinated contractile stresses. Oncotarget, 2015, 6, 43438-43451.	0.8	70
35	Molecular Portrait of Hypoxia in Breast Cancer: A Prognostic Signature and Novel HIF-Regulated Genes. Molecular Cancer Research, 2018, 16, 1889-1901.	1.5	68
36	The Contribution of the Immune System in Bone Metastasis Pathogenesis. International Journal of Molecular Sciences, 2019, 20, 999.	1.8	67

#	Article	IF	Citations
37	Regulation of MDMX Expression by Mitogenic Signaling. Molecular and Cellular Biology, 2008, 28, 1999-2010.	1.1	64
38	Decreased Expression of Cystathionine Î²-Synthase Promotes Glioma Tumorigenesis. Molecular Cancer Research, 2014, 12, 1398-1406.	1.5	59
39	HIF-1Î± and TAZ serve as reciprocal co-activators in human breast cancer cells. Oncotarget, 2015, 6, 11768-11778.	0.8	59
40	Hypoxia-inducible factors enhance glutamate signaling in cancer cells. Oncotarget, 2014, 5, 8853-8868.	0.8	56
41	Implications of Hypoxia in Breast Cancer Metastasis to Bone. International Journal of Molecular Sciences, 2016, 17, 1669.	1.8	52
42	Four-and-a-Half LIM Domain Proteins Inhibit Transactivation by Hypoxia-inducible Factor 1. Journal of Biological Chemistry, 2012, 287, 6139-6149.	1.6	44
43	RhoB: Team Oncogene or Team Tumor Suppressor?. Genes, 2018, 9, 67.	1.0	44
44	Detection of Hypoxia in Cancer Models: Significance, Challenges, and Advances. Cells, 2022, 11, 686.	1.8	44
45	Hypoxia-inducible factor-dependent ADAM12 expression mediates breast cancer invasion and metastasis. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	38
46	The Biophysics of 3D Cell Migration. Annual Review of Biophysics, 2018, 47, 549-567.	4.5	35
47	Distinct Roles of MDMX in the Regulation of p53 Response to Ribosomal Stress. Cell Cycle, 2007, 6, 151-155.	1.3	29
48	Abnormal MDMX degradation in tumor cells due to ARF deficiency. Oncogene, 2012, 31, 3721-3732.	2.6	27
49	The quaternary state of polymerized human hemoglobin regulates oxygenation of breast cancer solid tumors: A theoretical and experimental study. PLoS ONE, 2018, 13, e0191275.	1.1	24
50	Tumor Hypoxia As an Enhancer of Inflammation-Mediated Metastasis: Emerging Therapeutic Strategies. Targeted Oncology, 2018, 13, 157-173.	1.7	22
51	Hypoxia Alters the Response to Anti-EGFR Therapy by Regulating EGFR Expression and Downstream Signaling in a DNA Methylationâ€“Specific and HIF-Dependent Manner. Cancer Research, 2020, 80, 4998-5010.	0.4	20
52	A persistent invasive phenotype in post-hypoxic tumor cells is revealed by fate mapping and computational modeling. IScience, 2021, 24, 102935.	1.9	18
53	RhoB is regulated by hypoxia and modulates metastasis in breast cancer. Cancer Reports, 2020, 3, e1164.	0.6	16
54	Normal mammary epithelial cells promote carcinoma basement membrane invasion by inducing microtubule-rich protrusions. Oncotarget, 2015, 6, 32634-32645.	0.8	14

#	Article	IF	Citations
55	Post-Hypoxic Cells Promote Metastatic Recurrence after Chemotherapy Treatment in TNBC. Cancers, 2021, 13, 5509.	1.7	14
56	Extracellular Matrixâ€"Bound FGF2 Mediates Estrogen Receptor Signaling and Therapeutic Response in Breast Cancer. Molecular Cancer Research, 2021, 19, 136-149.	1.5	13
57	Effect of copper seed aging on electroplating-induced defects in copper interconnects. Journal of Electronic Materials, 2002, 31, 1047-1051.	1.0	11
58	Tumour mechanopathology: Cutting the stress out. Nature Biomedical Engineering, 2017, 1, .	11.6	9
59	Therapeutic Strategies to Block the Hypoxic Response. Advances in Experimental Medicine and Biology, 2019, 1136, 141-157.	0.8	8
60	A common goal to CARE: Cancer Advocates, Researchers, and Clinicians Explore current treatments and clinical trials for breast cancer brain metastases. Npj Breast Cancer, 2021, 7, 121.	2.3	6
61	A software tool for the quantification of metastatic colony growth dynamics and size distributions in vitro and in vivo. PLoS ONE, 2018, 13, e0209591.	1.1	3
62	Valsartan and sacubitril combination treatment enhances collagen production in older adult human skin cells. Experimental Gerontology, 2022, 165, 111835.	1.2	2
63	Solid Stress in Brain Tumors. Trends in Cancer, 2019, 5, 266-268.	3.8	0
64	Abstract A3: Collagen hydroxylases are essential for breast cancer metastasis. , 2013, , .		0
65	Abstract 3937: Collagen prolyl hydroxylases are essential for breast cancer metastasis.. , 2013, , .		0
66	Abstract 2649: A novel approach to fate-map hypoxic cells during tumor progression uncovers metastatic potency of post-hypoxic cells. , 2019, , .		0
67	Abstract 1010: Extracellular matrix signaling modulates estrogen receptor activity in breast cancer. , 2019, , .		0