

Begoa Martn-Castillo

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

78
papers

3,806
citations

38
h-index

61
g-index

80
ext. papers

4,189
ext. citations

4.7
avg, IF

5.07
L-index

#	Paper	IF	Citations
78	Metformin: multi-faceted protection against cancer. <i>Oncotarget</i> , 2011 , 2, 896-917	3.3	238
77	Metformin against TGF β -induced epithelial-to-mesenchymal transition (EMT): from cancer stem cells to aging-associated fibrosis. <i>Cell Cycle</i> , 2010 , 9, 4461-8	4.7	183
76	Metformin and cancer: doses, mechanisms and the dandelion and hormetic phenomena. <i>Cell Cycle</i> , 2010 , 9, 1057-64	4.7	181
75	Autophagy positively regulates the CD44(+) CD24(-/low) breast cancer stem-like phenotype. <i>Cell Cycle</i> , 2011 , 10, 3871-85	4.7	150
74	Metformin regulates breast cancer stem cell ontogeny by transcriptional regulation of the epithelial-mesenchymal transition (EMT) status. <i>Cell Cycle</i> , 2010 , 9, 3831-3838	4.7	147
73	The anti-diabetic drug metformin suppresses self-renewal and proliferation of trastuzumab-resistant tumor-initiating breast cancer stem cells. <i>Breast Cancer Research and Treatment</i> , 2011 , 126, 355-64	4.4	139
72	The Warburg effect version 2.0: metabolic reprogramming of cancer stem cells. <i>Cell Cycle</i> , 2013 , 12, 1166-79	4.7	126
71	Metformin-induced preferential killing of breast cancer initiating CD44+CD24-/low cells is sufficient to overcome primary resistance to trastuzumab in HER2+ human breast cancer xenografts. <i>Oncotarget</i> , 2012 , 3, 395-8	3.3	120
70	Xenohormetic and anti-aging activity of secoiridoid polyphenols present in extra virgin olive oil: a new family of gerosuppressant agents. <i>Cell Cycle</i> , 2013 , 12, 555-78	4.7	113
69	Epithelial-to-mesenchymal transition (EMT) confers primary resistance to trastuzumab (Herceptin). <i>Cell Cycle</i> , 2012 , 11, 4020-32	4.7	104
68	Metformin regulates breast cancer stem cell ontogeny by transcriptional regulation of the epithelial-mesenchymal transition (EMT) status. <i>Cell Cycle</i> , 2010 , 9, 3807-14	4.7	103
67	Metformin is synthetically lethal with glucose withdrawal in cancer cells. <i>Cell Cycle</i> , 2012 , 11, 2782-92	4.7	101
66	Micro(mi)RNA expression profile of breast cancer epithelial cells treated with the anti-diabetic drug metformin: induction of the tumor suppressor miRNA let-7a and suppression of the TGF β -induced oncomiR miRNA-181a. <i>Cell Cycle</i> , 2011 , 10, 1144-51	4.7	97
65	Metabolomic fingerprint reveals that metformin impairs one-carbon metabolism in a manner similar to the antifolate class of chemotherapy drugs. <i>Aging</i> , 2012 , 4, 480-98	5.6	93
64	Activation of AMP-activated protein kinase (AMPK) provides a metabolic barrier to reprogramming somatic cells into stem cells. <i>Cell Cycle</i> , 2012 , 11, 974-89	4.7	87
63	The anti-malarial chloroquine overcomes primary resistance and restores sensitivity to trastuzumab in HER2-positive breast cancer. <i>Scientific Reports</i> , 2013 , 3, 2469	4.9	81
62	Metformin activates an ataxia telangiectasia mutated (ATM)/Chk2-regulated DNA damage-like response. <i>Cell Cycle</i> , 2011 , 10, 1499-501	4.7	68

61	Metformin Is a Direct SIRT1-Activating Compound: Computational Modeling and Experimental Validation. <i>Frontiers in Endocrinology</i> , 2018 , 9, 657	5.7	64
60	IGF-1R/epithelial-to-mesenchymal transition (EMT) crosstalk suppresses the erlotinib-sensitizing effect of EGFR exon 19 deletion mutations. <i>Scientific Reports</i> , 2013 , 3, 2560	4.9	63
59	Autophagy-related gene 12 (ATG12) is a novel determinant of primary resistance to HER2-targeted therapies: utility of transcriptome analysis of the autophagy interactome to guide breast cancer treatment. <i>Oncotarget</i> , 2012 , 3, 1600-14	3.3	60
58	Metformin and the ATM DNA damage response (DDR): accelerating the onset of stress-induced senescence to boost protection against cancer. <i>Aging</i> , 2011 , 3, 1063-77	5.6	59
57	Stem cell-like ALDH(bright) cellular states in EGFR-mutant non-small cell lung cancer: a novel mechanism of acquired resistance to erlotinib targetable with the natural polyphenol silibinin. <i>Cell Cycle</i> , 2013 , 12, 3390-404	4.7	57
56	Silibinin suppresses EMT-driven erlotinib resistance by reversing the high miR-21/low miR-200c signature in vivo. <i>Scientific Reports</i> , 2013 , 3, 2459	4.9	56
55	Acquired resistance to metformin in breast cancer cells triggers transcriptome reprogramming toward a degradome-related metastatic stem-like profile. <i>Cell Cycle</i> , 2014 , 13, 1132-44	4.7	54
54	Dynamic emergence of the mesenchymal CD44(pos)CD24(neg/low) phenotype in HER2-gene amplified breast cancer cells with de novo resistance to trastuzumab (Herceptin). <i>Biochemical and Biophysical Research Communications</i> , 2010 , 397, 27-33	3.4	54
53	Metformin limits the tumorigenicity of iPS cells without affecting their pluripotency. <i>Scientific Reports</i> , 2012 , 2, 964	4.9	51
52	Repositioning chloroquine and metformin to eliminate cancer stem cell traits in pre-malignant lesions. <i>Drug Resistance Updates</i> , 2011 , 14, 212-23	23.2	51
51	mTOR inhibitors and the anti-diabetic biguanide metformin: new insights into the molecular management of breast cancer resistance to the HER2 tyrosine kinase inhibitor lapatinib (Tykerb). <i>Clinical and Translational Oncology</i> , 2009 , 11, 455-9	3.6	51
50	BRCA1 and acetyl-CoA carboxylase: the metabolic syndrome of breast cancer. <i>Molecular Carcinogenesis</i> , 2008 , 47, 157-63	5	51
49	Metformin lowers the threshold for stress-induced senescence: a role for the microRNA-200 family and miR-205. <i>Cell Cycle</i> , 2012 , 11, 1235-46	4.7	50
48	Resveratrol targets PD-L1 glycosylation and dimerization to enhance antitumor T-cell immunity. <i>Aging</i> , 2020 , 12, 8-34	5.6	49
47	Silibinin meglumine, a water-soluble form of milk thistle silymarin, is an orally active anti-cancer agent that impedes the epithelial-to-mesenchymal transition (EMT) in EGFR-mutant non-small-cell lung carcinoma cells. <i>Food and Chemical Toxicology</i> , 2013 , 60, 360-8	4.7	44
46	Metformin directly targets the H3K27me3 demethylase KDM6A/UTX. <i>Aging Cell</i> , 2018 , 17, e12772	9.9	43
45	Basal/HER2 breast carcinomas: integrating molecular taxonomy with cancer stem cell dynamics to predict primary resistance to trastuzumab (Herceptin). <i>Cell Cycle</i> , 2013 , 12, 225-45	4.7	42
44	Oncometabolic mutation IDH1 R132H confers a metformin-hypersensitive phenotype. <i>Oncotarget</i> , 2015 , 6, 12279-96	3.3	41

43	Inhibitor of Apoptosis (IAP) survivin is indispensable for survival of HER2 gene-amplified breast cancer cells with primary resistance to HER1/2-targeted therapies. <i>Biochemical and Biophysical Research Communications</i> , 2011 , 407, 412-9	3-4	40
42	Pathway-focused proteomic signatures in HER2-overexpressing breast cancer with a basal-like phenotype: new insights into de novo resistance to trastuzumab (Herceptin). <i>International Journal of Oncology</i> , 2010 , 37, 669-78	4-4	40
41	Metformin as an archetype immuno-metabolic adjuvant for cancer immunotherapy. <i>OncolImmunology</i> , 2019 , 8, e1633235	7-2	39
40	Extra-virgin olive oil contains a metabolo-epigenetic inhibitor of cancer stem cells. <i>Carcinogenesis</i> , 2018 , 39, 601-613	4-6	35
39	Oncobiguanides: ParacelsusRaw and nonconventional routes for administering diabetobiguanides for cancer treatment. <i>Oncotarget</i> , 2014 , 5, 2344-8	3-3	35
38	Stem cell property epithelial-to-mesenchymal transition is a core transcriptional network for predicting cetuximab (Erbiximab) efficacy in KRAS wild-type tumor cells. <i>Journal of Cellular Biochemistry</i> , 2011 , 112, 10-29	4-7	34
37	A phase 2 trial of neoadjuvant metformin in combination with trastuzumab and chemotherapy in women with early HER2-positive breast cancer: the METTEN study. <i>Oncotarget</i> , 2018 , 9, 35687-35704	3-3	34
36	The anti-diabetic drug metformin suppresses the metastasis-associated protein CD24 in MDA-MB-468 triple-negative breast cancer cells. <i>Oncology Reports</i> , 2011 , 25, 135-40	3-5	33
35	Metformin rescues cell surface major histocompatibility complex class I (MHC-I) deficiency caused by oncogenic transformation. <i>Cell Cycle</i> , 2012 , 11, 865-70	4-7	31
34	Dietary restriction-resistant human tumors harboring the PIK3CA-activating mutation H1047R are sensitive to metformin. <i>Oncotarget</i> , 2013 , 4, 1484-95	3-3	29
33	If mammalian target of metformin indirectly is mammalian target of rapamycin, then the insulin-like growth factor-1 receptor axis will audit the efficacy of metformin in cancer clinical trials. <i>Journal of Clinical Oncology</i> , 2009 , 27, e207-9; author reply e210	2-2	28
32	Clinical and therapeutic relevance of the metabolic oncogene fatty acid synthase in HER2+ breast cancer. <i>Histology and Histopathology</i> , 2017 , 32, 687-698	1-4	27
31	Cancer stem cell-driven efficacy of trastuzumab (Herceptin): towards a reclassification of clinically HER2-positive breast carcinomas. <i>Oncotarget</i> , 2015 , 6, 32317-38	3-3	26
30	Silibinin and SARS-CoV-2: Dual Targeting of Host Cytokine Storm and Virus Replication Machinery for Clinical Management of COVID-19 Patients. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5-1	25
29	Lapatinib, a dual HER1/HER2 tyrosine kinase inhibitor, augments basal cleavage of HER2 extracellular domain (ECD) to inhibit HER2-driven cancer cell growth. <i>Journal of Cellular Physiology</i> , 2011 , 226, 52-7	7	24
28	Anti-protozoal and anti-bacterial antibiotics that inhibit protein synthesis kill cancer subtypes enriched for stem cell-like properties. <i>Cell Cycle</i> , 2015 , 14, 3527-32	4-7	22
27	The LSD1 inhibitor iadademstat (ORY-1001) targets SOX2-driven breast cancer stem cells: a potential epigenetic therapy in luminal-B and HER2-positive breast cancer subtypes. <i>Aging</i> , 2020 , 12, 4794-4814	5-6	21
26	Metformin induces a fasting- and antifolate-mimicking modification of systemic host metabolism in breast cancer patients. <i>Aging</i> , 2019 , 11, 2874-2888	5-6	18

25	Metformin inhibits RANKL and sensitizes cancer stem cells to denosumab. <i>Cell Cycle</i> , 2017 , 16, 1022-1028.	4.7	17
24	Fatty acid synthase activity regulates HER2 extracellular domain shedding into the circulation of HER2-positive metastatic breast cancer patients. <i>International Journal of Oncology</i> , 2009 , 35, 1369-76	4.4	17
23	Metformin and cancer: Quo vadis et cui bono?. <i>Oncotarget</i> , 2016 , 7, 54096-54101	3.3	13
22	Discovery and validation of an INflammatory PROtein-driven GAstric cancer Signature (INPROGAS) using antibody microarray-based oncoproteomics. <i>Oncotarget</i> , 2014 , 5, 1942-54	3.3	13
21	Cytokeratin 5/6 fingerprinting in HER2-positive tumors identifies a poor prognosis and trastuzumab-resistant basal-HER2 subtype of breast cancer. <i>Oncotarget</i> , 2015 , 6, 7104-22	3.3	12
20	Synthetic lethal interaction of cetuximab with MEK1/2 inhibition in NRAS-mutant metastatic colorectal cancer. <i>Oncotarget</i> , 2016 , 7, 82185-82199	3.3	11
19	The Allele of rs11212617 Associates With Higher Pathological Complete Remission Rate in Breast Cancer Patients Treated With Neoadjuvant Metformin. <i>Frontiers in Oncology</i> , 2019 , 9, 193	5.3	10
18	Evolution of the predictive markers amphiregulin and epiregulin mRNAs during long-term cetuximab treatment of KRAS wild-type tumor cells. <i>Investigational New Drugs</i> , 2012 , 30, 846-52	4.3	10
17	Interferon/STAT1 and neuregulin signaling pathways are exploratory biomarkers of cetuximab (Erbixim) efficacy in KRAS wild-type squamous carcinomas: a pathway-based analysis of whole human-genome microarray data from cetuximab-adapted tumor cell-line models. <i>International Journal of Oncology</i> , 2011 , 39, 1455-79	4.4	10
16	BRCA1 haploinsufficiency cell-autonomously activates RANKL expression and generates denosumab-responsive breast cancer-initiating cells. <i>Oncotarget</i> , 2017 , 8, 35019-35032	3.3	10
15	An olive oil phenolic is a new chemotype of mutant isocitrate dehydrogenase 1 (IDH1) inhibitors. <i>Carcinogenesis</i> , 2019 , 40, 27-40	4.6	9
14	Metabolomic mapping of cancer stem cells for reducing and exploiting tumor heterogeneity. <i>Oncotarget</i> , 2017 , 8, 99223-99236	3.3	8
13	Expression status of the autophagy-regulatory gene ATG6/BECN1 in ERBB2-positive breast carcinomas: bypassing ERBB2-induced oncogenic senescence to regulate the efficacy of ERBB2-targeted therapies. <i>Genes Chromosomes and Cancer</i> , 2011 , 50, 284-90	5	8
12	EphA2 receptor activation with ephrin-A1 ligand restores cetuximab efficacy in NRAS-mutant colorectal cancer cells. <i>Oncology Reports</i> , 2017 , 38, 263-270	3.5	7
11	Neoadjuvant Metformin Added to Systemic Therapy Decreases the Proliferative Capacity of Residual Breast Cancer. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	7
10	Diagnostic utility of mammaglobin and GCDFP-15 in the identification of primary neuroendocrine carcinomas of the breast. <i>Breast Cancer Research and Treatment</i> , 2011 , 126, 241-5	4.4	5
9	Antibody microarray-based technology to rapidly define matrix metalloproteinase (MMP) signatures in patients undergoing resection for primary gastric carcinoma. <i>Journal of Surgical Oncology</i> , 2011 , 104, 106-9	2.8	5
8	Metformin and Breast Cancer: Where Are We Now?. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	4

7	Tumor Cell-Intrinsic Immunometabolism and Precision Nutrition in Cancer Immunotherapy. <i>Cancers</i> , 2020 , 12,	6.6	3
6	Circulating fatty acid synthase: an exploratory biomarker to predict efficacy of the dual HER1/HER2 tyrosine kinase inhibitor lapatinib. <i>Breast Cancer Research</i> , 2011 , 13, 401	8.3	3
5	Transcriptional upregulation of HER2 expression in the absence of HER2 gene amplification results in cetuximab resistance that is reversed by trastuzumab treatment. <i>Oncology Reports</i> , 2012 , 27, 1887-92	3.5	3
4	An improved axillary staging system using the OSNA assay does not modify the therapeutic management of breast cancer patients. <i>Scientific Reports</i> , 2014 , 4, 5743	4.9	2
3	clinical trials for anti-aging therapies. <i>Aging</i> , 2019 , 11, 6591-6601	5.6	2
2	Mimetics of extra virgin olive oil phenols with anti-cancer stem cell activity. <i>Aging</i> , 2020 , 12, 21057-21075	5.6	1
1	Metformin: Targeting the Metabolo-Epigenetic Link in Cancer Biology. <i>Frontiers in Oncology</i> , 2020 , 10, 620641	5.3	1