

Carbonic anhydrase XII is a marker of good prognosis in

British Journal of Cancer

88, 1065-1070

DOI: [10.1038/sj.bjc.6600796](https://doi.org/10.1038/sj.bjc.6600796)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Stable "portrait"™ of breast tumors during progression: data from biology, pathology and genetics. <i>Endocrine-Related Cancer</i> , 2004, 11, 497-522.	1.6	119
2	Prognostic predictor with multiple fuzzy neural models using expression profiles from DNA microarray for metastases of breast cancer. <i>Journal of Bioscience and Bioengineering</i> , 2004, 98, 193-199.	1.1	25
3	Biomolecular features of clinical relevance in breast cancer. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , 2004, 31, S3-S14.	3.3	13
4	Expression of hypoxia-inducible, membrane-bound carbonic anhydrase isozyme XII in mouse tissues. <i>The Anatomical Record</i> , 2004, 277A, 171-177.	2.3	22
6	Biomolecular prognostic factors in breast cancer. <i>Current Opinion in Obstetrics and Gynecology</i> , 2004, 16, 49-55.	0.9	50
7	Carbonic anhydrase inhibitors. Synthesis and inhibition of cytosolic/tumor-associated carbonic anhydrase isozymes I, II, and IX with boron-containing sulfonamides, sulfamides, and sulfamates: Toward agents for boron neutron capture therapy of hypoxic tumors. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2005, 15, 3302-3306.	1.0	52
8	Carbonic Anhydrase and CO <sub>2</sub> Sensing during <i>Cryptococcus neoformans</i> Growth, Differentiation, and Virulence. <i>Current Biology</i> , 2005, 15, 2013-2020.	1.8	188
9	Angiostatin's molecular mechanism: Aspects of specificity and regulation elucidated. <i>Journal of Cellular Biochemistry</i> , 2005, 96, 242-261.	1.2	120
10	Global Gene Expression Analysis of Estrogen Receptor Transcription Factor Cross Talk in Breast Cancer: Identification of Estrogen-Induced/Activator Protein-1-Dependent Genes. <i>Molecular Endocrinology</i> , 2005, 19, 362-378.	3.7	99
11	Microenvironmental Effects on Tumour Progression and Metastasis. , 2005, , 1-22.		2
12	Tumor-associated Carbonic Anhydrases and Their Clinical Significance. <i>Advances in Clinical Chemistry</i> , 2006, 42, 167-216.	1.8	124
13	Increased Expression of Leptin and the Leptin Receptor as a Marker of Breast Cancer Progression: Possible Role of Obesity-Related Stimuli. <i>Clinical Cancer Research</i> , 2006, 12, 1447-1453.	3.2	315
14	Classification of Breast Cancer Using Genetic Algorithms and Tissue Microarrays. <i>Clinical Cancer Research</i> , 2006, 12, 6459-6468.	3.2	100
15	Role of Carbonic Anhydrases in the Progression of Renal Cell Carcinoma Subtypes: Proposal of a Unified Hypothesis. <i>Cancer Investigation</i> , 2006, 24, 754-779.	0.6	31
16	Hypoxia and Metastasis in Breast Cancer. <i>Breast Disease</i> , 2007, 26, 55-64.	0.4	50
17	Hypoxia and its downstream targets in DMBA induced mammary carcinoma: Protective role of <i>Semecarpus anacardium</i> nut extract. <i>Chemico-Biological Interactions</i> , 2007, 167, 31-40.	1.7	13
18	Estrogen receptor- $\beta$ regulates psoriasin (S100A7) in human breast cancer. <i>Breast Cancer Research and Treatment</i> , 2007, 104, 75-85.	1.1	34
19	Gene expression profile analysis of primary glioblastomas and non-neoplastic brain tissue: identification of potential target genes by oligonucleotide microarray and real-time quantitative PCR. <i>Journal of Neuro-Oncology</i> , 2008, 88, 281-291.	1.4	109

#	ARTICLE	IF	CITATIONS
20	Significance of pH regulation and carbonic anhydrases in tumour progression and implications for diagnostic and therapeutic approaches. <i>BJU International</i> , 2008, 101, 16-21.	1.3	43
21	Identification of an alternatively spliced isoform of carbonic anhydrase XII in diffusely infiltrating astrocytic gliomas. <i>Neuro-Oncology</i> , 2008, 10, 131-138.	0.6	81
22	Estrogen Receptor Regulation of Carbonic Anhydrase XII through a Distal Enhancer in Breast Cancer. <i>Cancer Research</i> , 2008, 68, 3505-3515.	0.4	137
23	The Expression of Carbonic Anhydrase in Canine Mammary Gland and Mammary Gland Tumor. <i>Journal of Veterinary Medical Science</i> , 2008, 70, 437-441.	0.3	1
24	Gene expression in human oral squamous cell carcinoma is influenced by risk factor exposure. <i>Oral Oncology</i> , 2009, 45, 712-719.	0.8	59
25	Alternative splicing variants of carbonic anhydrase IX in human non-small cell lung cancer. <i>Lung Cancer</i> , 2009, 64, 271-276.	0.9	27
26	Identification of Protein Clusters Predictive of Response to Chemotherapy in Breast Cancer Patients. <i>Journal of Proteome Research</i> , 2009, 8, 4916-4933.	1.8	37
28	Membrane-bound carbonic anhydrases are key pH regulators controlling tumor growth and cell migration. <i>Advances in Enzyme Regulation</i> , 2010, 50, 20-33.	2.9	57
29	Carbonic anhydrase XII promotes invasion and migration ability of MDA-MB-231 breast cancer cells through the p38 MAPK signaling pathway. <i>European Journal of Cell Biology</i> , 2010, 89, 598-606.	1.6	93
30	Oxygen-mediated endocytosis in cancer. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 14, 496-503.	1.6	33
31	Carbonic anhydrase XII expression is associated with histologic grade of cervical cancer and superior radiotherapy outcome. <i>Radiation Oncology</i> , 2010, 5, 101.	1.2	35
32	Comparative Transcriptome Analysis of the CO <sub>2</sub> Sensing Pathway Via Differential Expression of Carbonic Anhydrase in <i>Cryptococcus neoformans</i> . <i>Genetics</i> , 2010, 185, 1207-1219.	1.2	36
33	Gene expression signatures differentiate ovarian/peritoneal serous carcinoma from breast carcinoma in effusions. <i>Journal of Cellular and Molecular Medicine</i> , 2011, 15, 535-544.	1.6	48
34	pH control mechanisms of tumor survival and growth. <i>Journal of Cellular Physiology</i> , 2011, 226, 299-308.	2.0	298
35	Overexpression of carbonic anhydrase XII in tissues from resectable non-small cell lung cancers is a biomarker of good prognosis. <i>International Journal of Cancer</i> , 2011, 128, 1614-1623.	2.3	84
36	Estrogen receptor status prediction for breast cancer using artificial neural network. , 2011, , .		9
37	Noninvasive Detection of Breast Cancer Lymph Node Metastasis Using Carbonic Anhydrases IX and XII Targeted Imaging Probes. <i>Clinical Cancer Research</i> , 2012, 18, 207-219.	3.2	78
38	Gene expression signatures differentiate adenocarcinoma of lung and breast origin in effusions. <i>Human Pathology</i> , 2012, 43, 684-694.	1.1	31

#	ARTICLE	IF	CITATIONS
39	Immunophenotyping invasive breast cancer: paving the road for molecular imaging. BMC Cancer, 2012, 12, 240.	1.1	22
40	Carbonic Anhydrase IX Promotes Tumor Growth and Necrosis <i>In Vivo</i> and Inhibition Enhances Anti-VEGF Therapy. Clinical Cancer Research, 2012, 18, 3100-3111.	3.2	215
41	Carbonic anhydrase isozymes II, IX, and XII in uterine tumors. Apmis, 2012, 120, 117-129.	0.9	33
42	Tumor-associated carbonic anhydrase XII is linked to the growth of primary oral squamous cell carcinoma and its poor prognosis. Oral Oncology, 2012, 48, 417-423.	0.8	49
43	In papillary thyroid carcinoma, TIMP-1 expression correlates with BRAF V600E mutation status and together with hypoxia-related proteins predicts aggressive behavior. Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin, 2013, 463, 437-444.	1.4	20
44	Characterization of human carbonic anhydrase XII stability and inhibitor binding. Bioorganic and Medicinal Chemistry, 2013, 21, 1431-1436.	1.4	47
45	Long-range transcriptional regulation of breast cancer genes. Genes Chromosomes and Cancer, 2013, 52, 113-125.	1.5	7
46	Challenging single- and multi-probesets gene expression signatures of pathological complete response to neoadjuvant chemotherapy in breast cancer: Experience of the REMAGUS 02 phase II trial. Breast, 2013, 22, 1052-1059.	0.9	12
47	Response of CAIX and CAXII to in vitro re-oxygenation and clinical significance of the combined expression in NSCLC patients. Lung Cancer, 2013, 82, 16-23.	0.9	20
48	Carbonic Anhydrase IX as an Imaging and Therapeutic Target for Tumors and Metastases. Sub-Cellular Biochemistry, 2014, 75, 221-254.	1.0	93
49	Systemic identification of estrogen-regulated genes in breast cancer cells through cap analysis of gene expression mapping. Biochemical and Biophysical Research Communications, 2014, 447, 531-536.	1.0	14
50	Expression Pattern of Carbonic Anhydrase IX in Medullary Thyroid Carcinoma Supports a Role for RET-Mediated Activation of the HIF Pathway. American Journal of Pathology, 2014, 184, 953-965.	1.9	31
51	Carbonic Anhydrase: Mechanism, Regulation, Links to Disease, and Industrial Applications. Sub-Cellular Biochemistry, 2014, , .	1.0	49
52	Carbonic Anhydrase XII as an Independent Prognostic Factor in Advanced Esophageal Squamous Cell Carcinoma. Journal of Cancer, 2015, 6, 922-929.	1.2	20
53	Carbonic anhydrase XII is a new therapeutic target to overcome chemoresistance in cancer cells. Oncotarget, 2015, 6, 6776-6793.	0.8	102
54	Tumor-Associated Carbonic Anhydrases IX and XII. , 2015, , 169-205.		12
55	Disrupting Hypoxia-Induced Bicarbonate Transport Acidifies Tumor Cells and Suppresses Tumor Growth. Cancer Research, 2016, 76, 3744-3755.	0.4	81
56	The Role of pH Regulation in Cancer Progression. Recent Results in Cancer Research, 2016, 207, 93-134.	1.8	13

#	ARTICLE	IF	CITATIONS
57	Tumor metabolism, cancer cell transporters, and microenvironmental resistance. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2016, 31, 859-866.	2.5	60
58	SDTNBI: an integrated network and chemoinformatics tool for systematic prediction of drug-target interactions and drug repositioning. <i>Briefings in Bioinformatics</i> , 2017, 18, bbw012.	3.2	102
59	Hypoxia optimises tumour growth by controlling nutrient import and acidic metabolite export. <i>Molecular Aspects of Medicine</i> , 2016, 47-48, 3-14.	2.7	55
60	Evaluation of CAIX and CAXII Expression in Breast Cancer at Varied O <sub>2</sub> Levels: CAIX is the Superior Surrogate Imaging Biomarker of Tumor Hypoxia. <i>Molecular Imaging and Biology</i> , 2016, 18, 219-231.	1.3	69
61	Value of pH regulators in the diagnosis, prognosis and treatment of cancer. <i>Seminars in Cancer Biology</i> , 2017, 43, 17-34.	4.3	78
62	Targeting pH regulating proteins for cancer therapy-Progress and limitations. <i>Seminars in Cancer Biology</i> , 2017, 43, 66-73.	4.3	48
63	Carbonic anhydrase XII functions in health and disease. <i>Gene</i> , 2017, 623, 33-40.	1.0	89
64	Association between hypoxic volume and underlying hypoxia-induced gene expression in oropharyngeal squamous cell carcinoma. <i>British Journal of Cancer</i> , 2017, 116, 1057-1064.	2.9	20
65	Tumour acidosis: from the passenger to the driver's seat. <i>Nature Reviews Cancer</i> , 2017, 17, 577-593.	12.8	666
66	Pseudohypoxia: Life at the Edge. , 2017, , 57-68.		9
67	Carbonic Anhydrase Based Biomarkers: Potential Application in Human Health and Environmental Sciences. <i>Current Biomarkers</i> , 2017, 6, 40-46.	0.3	5
68	Selective inhibition of carbonic anhydrase IX over carbonic anhydrase XII in breast cancer cells using benzene sulfonamides: Disconnect between activity and growth inhibition. <i>PLoS ONE</i> , 2018, 13, e0207417.	1.1	32
69	Molecular Cloning and Characterization of Carbonic Anhydrase XII from Pufferfish (Takifugu) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 262 T	1.8	0
70	Differential expression and function of CAIX and CAXII in breast cancer: A comparison between tumorgraft models and cells. <i>PLoS ONE</i> , 2018, 13, e0199476.	1.1	47
71	Carbonic anhydrases II, IX, and XII in Barrett's esophagus and adenocarcinoma. <i>Virchows Archiv Fur Pathologische Anatomie Und Physiologie Und Fur Klinische Medizin</i> , 2018, 473, 567-575.	1.4	12
72	Cancer Drug Development of Carbonic Anhydrase Inhibitors beyond the Active Site. <i>Molecules</i> , 2018, 23, 1045.	1.7	93
73	<p><p>Integrated Bioinformatics Data Analysis Reveals Prognostic Significance Of SIDT1 In Triple-Negative Breast Cancer<p><p>. <i>OncoTargets and Therapy</i> , 2019, Volume 12, 8401-8410.	1.0	16
74	Carbonic anhydrases as disease markers. <i>Expert Opinion on Therapeutic Patents</i> , 2019, 29, 509-533.	2.4	51

#	ARTICLE	IF	CITATIONS
75	In Silico Modeling of FDA-Approved Drugs for Discovery of Anticancer Agents: A Drug-Repurposing Approach. , 2019, , 527-548.		0
76	High expression of carbonic anhydrase 12 (CA12) is associated with good prognosis in breast cancer. Neoplasma, 2019, 66, 420-426.	0.7	24
77	CAIX is a predictor of pathological complete response and is associated with higher survival in locally advanced breast cancer submitted to neoadjuvant chemotherapy. BMC Cancer, 2019, 19, 1173.	1.1	15
78	Enzyme targeting strategies for prevention and treatment of cancer: Implications for cancer therapy. Seminars in Cancer Biology, 2019, 56, 1-11.	4.3	81
79	Function of ion transporters in maintaining acid-base homeostasis of the mammary gland and the pathophysiological role in breast cancer. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2020, 318, R98-R111.	0.9	9
80	TFAP2C regulates carbonic anhydrase XII in human breast cancer. Oncogene, 2020, 39, 1290-1301.	2.6	16
81	The roles of carbonic anhydrases IX and XII in cancer cell adhesion, migration, invasion and metastasis. Biology of the Cell, 2020, 112, 383-397.	0.7	14
82	Progress in the development of human carbonic anhydrase inhibitors and their pharmacological applications: Where are we today?. Medicinal Research Reviews, 2020, 40, 2485-2565.	5.0	154
83	Inhibitory activity against carbonic anhydrase IX and XII as a candidate selection criterion in the development of new anticancer agents. Journal of Enzyme Inhibition and Medicinal Chemistry, 2020, 35, 1555-1561.	2.5	25
84	Biophysical Characterization of Cancer-Related Carbonic Anhydrase IX. International Journal of Molecular Sciences, 2020, 21, 5277.	1.8	4
85	Carbonic Anhydrase 4 serves as a Clinicopathological Biomarker for Outcomes and Immune Infiltration in Renal Cell Carcinoma, Lower Grade Glioma, Lung Adenocarcinoma and Uveal Melanoma. Journal of Cancer, 2020, 11, 6101-6113.	1.2	6
86	The Fundamental Role of Bicarbonate Transporters and Associated Carbonic Anhydrase Enzymes in Maintaining Ion and pH Homeostasis in Non-Secretory Organs. International Journal of Molecular Sciences, 2020, 21, 339.	1.8	33
87	DFT based QSARs for inhibitory activity of coumarins towards tumor-associated isoform (CA XII) of carbonic anhydrases. Journal of Molecular Structure, 2020, 1208, 127844.	1.8	2
88	Carbonic Anhydrase XII Expression Is Modulated during Epithelial Mesenchymal Transition and Regulated through Protein Kinase C Signaling. International Journal of Molecular Sciences, 2020, 21, 715.	1.8	12
89	Characterization of Carbonic Anhydrase In Vivo Using Magnetic Resonance Spectroscopy. International Journal of Molecular Sciences, 2020, 21, 2442.	1.8	5
90	Overexpressed CA12 has prognostic value in pancreatic cancer and promotes tumor cell apoptosis via NF- $\kappa$ B signaling. Journal of Cancer Research and Clinical Oncology, 2021, 147, 1557-1564.	1.2	7
91	Inhibition of Carbonic Anhydrase Using SLC-149: Support for a Noncatalytic Function of CAIX in Breast Cancer. Journal of Medicinal Chemistry, 2021, 64, 1713-1724.	2.9	14
92	Disruption of pH Dynamics Suppresses Proliferation and Potentiates Doxorubicin Cytotoxicity in Breast Cancer Cells. Pharmaceutics, 2021, 13, 242.	2.0	12

#	ARTICLE	IF	CITATIONS
93	Improved Stabilities of Labeling Probes for the Selective Modification of Endogenous Proteins in Living Cells and In Vivo. <i>Chemistry - an Asian Journal</i> , 2021, 16, 937-948.	1.7	4
94	Switching the Inhibitor-Enzyme Recognition Profile via Chimeric Carbonic Anhydrase XII. <i>ChemistryOpen</i> , 2021, 10, 567-580.	0.9	1
95	Betulin Sulfonamides as Carbonic Anhydrase Inhibitors and Anticancer Agents in Breast Cancer Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8808.	1.8	13
96	Exploring of tumor-associated carbonic anhydrase isoenzyme IX and XII inhibitory effects and cytotoxicities of the novel N-aryl-1-(4-sulfamoylphenyl)-5-(thiophen-2-yl)-1H-pyrazole-3-carboxamides. <i>Bioorganic Chemistry</i> , 2021, 115, 105194.	2.0	15
97	pH regulators of the tumoral microenvironment: A general overview. , 2021, , 13-33.		4
99	Ion Channels, Transporters, and Sensors Interact with the Acidic Tumor Microenvironment to Modify Cancer Progression. <i>Reviews of Physiology, Biochemistry and Pharmacology</i> , 2021, , 39-84.	0.9	8
100	Physiological Functions of the Alpha Class of Carbonic Anhydrases. <i>Sub-Cellular Biochemistry</i> , 2014, 75, 9-30.	1.0	62
101	Gene expression signatures differentiate ovarian/peritoneal serous carcinoma from breast carcinoma in effusions. <i>Journal of Cellular and Molecular Medicine</i> , 2010, 15, 535-44.	1.6	27
102	CAXII Is a Sero-Diagnostic Marker for Lung Cancer. <i>PLoS ONE</i> , 2012, 7, e33952.	1.1	37
103	Expression of von Hippel-Lindau tumor suppressor and tumor-associated carbonic anhydrases IX and XII in normal and neoplastic colorectal mucosa. <i>World Journal of Gastroenterology</i> , 2005, 11, 2616.	1.4	47
104	Identification of potential pathogenic candidates or diagnostic biomarkers in papillary thyroid carcinoma using expression and methylation profiles. <i>Oncology Letters</i> , 2019, 18, 6670-6678.	0.8	9
105	The Expression of Carbonic Anhydrase (CA) IX/XII and Lymph Node Metastasis in Early Breast Cancer. <i>Cancer Research and Treatment</i> , 2016, 48, 125-132.	1.3	8
106	Carbonic anhydrase 12 gene silencing reverses the sensitivity of paclitaxel in drug-resistant breast cancer cells. <i>Bioengineered</i> , 2021, 12, 9806-9818.	1.4	6
107	SEREX; discovery of tumor antigens. <i>Journal of Life Science</i> , 2007, 17, 841-846.	0.2	2
109	Development of Therapeutic Antibodies Against Carbonic Anhydrases. , 2019, , 305-322.		0
110	An Overview of Carbonic Anhydrase-Related Neoplasms. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2021, , 147-178.	0.6	0
111	Carbonic Anhydrase Isozymes as Diagnostic Biomarkers and Therapeutic Targets. <i>Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques</i> , 2021, , 13-36.	0.6	0
112	Biomarkers for Breast Cancer: Towards the Proposition of Clinically Relevant Tools. , 2008, , 15-32.		0

#	ARTICLE	IF	CITATIONS
113	CATA: a comprehensive chromatin accessibility database for cancer. Database: the Journal of Biological Databases and Curation, 2020, 2022, .	1.4	0
114	Correlation between CA12 and TFF3 and their prediction value of neoadjuvant chemotherapy response in breast cancer. Journal of Clinical Pharmacy and Therapeutics, 2022, 47, 609-618.	0.7	3
115	Carbonic anhydrases in metazoan model organisms: molecules, mechanisms, and physiology. Physiological Reviews, 2022, 102, 1327-1383.	13.1	44
117	Integrative Proteo-Genomic Analysis for Recurrent Survival Prognosis in Colon Adenocarcinoma. Frontiers in Oncology, 0, 12, .	1.3	0
118	Carbonic anhydrase XII as biomarker and therapeutic target in ovarian carcinomas. PLoS ONE, 2022, 17, e0271630.	1.1	1
119	3- <i>H</i> -1,2-Benzoxaphosphepine 2-oxides as selective inhibitors of carbonic anhydrase IX and XII. Journal of Enzyme Inhibition and Medicinal Chemistry, 2023, 38, 216-224.	2.5	3
120	Indoline-5-Sulfonamides: A Role of the Core in Inhibition of Cancer-Related Carbonic Anhydrases, Antiproliferative Activity and Circumventing of Multidrug Resistance. Pharmaceuticals, 2022, 15, 1453.	1.7	4
121	Enzymes: Tumour Associated Biomarker. , 2023, , 180-194.		0
122	Hypoxic microenvironment in cancer: molecular mechanisms and therapeutic interventions. Signal Transduction and Targeted Therapy, 2023, 8, .	7.1	81
123	Potential Novel Role of Membrane-Associated Carbonic Anhydrases in the Kidney. International Journal of Molecular Sciences, 2023, 24, 4251.	1.8	2
124	Carbonic anhydrase IX-related tumoral hypoxia predicts worse prognosis in breast cancer: A systematic review and meta-analysis. Frontiers in Medicine, 0, 10, .	1.2	3
125	Proteomics analysis of human breast milk by two-dimensional polyacrylamide gel electrophoresis (2D-PAGE) coupled with mass spectrometry to assess breast cancer risk. Electrophoresis, 2023, 44, 1097-1113.	1.3	1