Citation Report
List of articles citing

Recent developments in targeting carbonic anhydrase IX for cancer therapeutics

DOI: 10.18632/oncotarget.422
Oncotarget, 2012, 3, 84-97.

Source: https://exaly.com/paper-pdf/87797551/citation-report.pdf
Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
345	Polypharmacology of sulfonamides: pazopanib, a multitargeted receptor tyrosine kinase inhibitor in clinical use, potently inhibits several mammalian carbonic anhydrases. **2012**, 48, 8177-9		62
344	Carbamoylphosphonates control tumor cell proliferation and dissemination by simultaneously inhibiting carbonic anhydrase IX and matrix metalloproteinase-2. Toward nontoxic chemotherapy targeting tumor microenvironment. **2012**, 55, 7875-82		21
343	Phospho-Np63/SREBF1 protein interactions: bridging cell metabolism and cisplatin chemoresistance. **2012**, 11, 3810-27		12
342	Structure-based drug discovery of carbonic anhydrase inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2012**, 27, 759-72	5.6	483
341	Sulfonamides: a patent review (2008 - 2012). **2012**, 22, 747-58		167
340	Flavones and structurally related 4-chromenones inhibit carbonic anhydrases by a different mechanism of action compared to coumarins. **2012**, 22, 3063-6		20
339	Targeting carbonic anhydrase IX by nitroimidazole based sulfamides enhances the therapeutic effect of tumor irradiation: a new concept of dual targeting drugs. **2013**, 108, 523-8		74
338	Novel sulfonamide compounds for inhibition of metastatic tumor growth (WO2012021963). **2013**, 23, 761-3		2
337	Insights towards sulfonamide drug specificity in α-carbonic anhydrases. **2013**, 21, 1526-33		87
336	Exploiting the hydrophobic and hydrophilic binding sites for designing carbonic anhydrase inhibitors. **2013**, 8, 793-810		215
335	Microenvironment and tumor cell plasticity: an easy way out. **2013**, 341, 80-96		183
334	Selective carbonic anhydrase IX inhibitors based on coumarin scaffold as promising antimetastatic agents: WO2012070024. **2013**, 23, 751-6		13
333	Pharmacological inhibition of carbonic anhydrase XII interferes with cell proliferation and induces cell apoptosis in T-cell lymphomas. **2013**, 333, 76-88		44
332	Down regulation of CAII is associated with tumor differentiation and poor prognosis in patients with pancreatic cancer. **2013**, 107, 536-43		15
331	Head and neck cancer: from anatomy to biology. **2013**, 133, 2013-23		109
330	Proteomic analysis of two metabolic proteins with potential to translocate to plasma membrane associated with tumor metastasis development and drug targets. **2013**, 12, 1754-63		9
329	Hypoxic tumor microenvironment in advanced retinoblastoma. **2013**, 60, 1598-601		22

328	Hypoxia-targeting carbonic anhydrase IX inhibitors by a new series of nitroimidazole-sulfonamides/sulfamides/sulfamates. **2013**, 56, 8512-20		68
327	Targeting hypoxia in the leukemia microenvironment. **2013**, 2, 279-288		32
326	Interaction of HIF-1α and Notch3 Is Required for the Expression of Carbonic Anhydrase 9 in Breast Carcinoma Cells. *Genes and Cancer*, **2013**, 4, 513-23	2.9	17
325	DUBs "found in translation": USP15 controls stability of newly synthesized REST. **2013**, 12, 2536-7		3
324	Novel antibody to a carbonic anhydrase: patent evaluation of WO2011138279A1. **2013**, 23, 757-60		6
323	Hot and toxic: hyperthermia and anti-mitotic drugs in cancer therapy. **2013**, 12, 2533		2
322	Identifying the stromal cell type that contributes to tumor aggressiveness associated with carbonic anhydrase IX. **2013**, 12, 2535-6		3
321	Carbonic anhydrase 9 (CA9) and redox signaling in cancer-associated fibroblasts: therapeutic implications. **2013**, 12, 2534-5		2
320	The prognostic impact of a combined carbonic anhydrase IX and Ki67 signature in oral squamous cell carcinoma. **2013**, 109, 1859-66		28
319	Inhibition of carbonic anhydrase activity modifies the toxicity of doxorubicin and melphalan in tumour cells in vitro. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2013**, 28, 360-9	5.6	72
318	Differential BCCIP gene expression in primary human ovarian cancer, renal cell carcinoma and colorectal cancer tissues. **2013**, 43, 1925-34		23
317	A potential diagnostic marker for ovarian cancer: Involvement of the histone acetyltransferase, human males absent on the first. **2013**, 6, 393-400		50
316	DNA hypomethylation-mediated overexpression of carbonic anhydrase 9 induces an aggressive phenotype in ovarian cancer cells. **2014**, 55, 1656-63		13
315	Tumor microenvironmental changes induced by the sulfamate carbonic anhydrase IX inhibitor S4 in a laryngeal tumor model. **2014**, 9, e108068		15
314	Development and characterization of new monoclonal antibodies against human recombinant CA XII. **2014**, 2014, 309307		7
313	Receptor Chemoprint Derived Pharmacophore Model for Development of CAIX Inhibitors. **2014**, s8,		2
312	Agents described in the Molecular Imaging and Contrast Agent Database for imaging carbonic anhydrase IX expression. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2014**, 29, 753-63	5.6	13
311	Biodistribution and radiation dosimetry of the carbonic anhydrase IX imaging agent [(18) F]VM4-037 determined from PET/CT scans in healthy volunteers. **2014**, 16, 739-46		20

310	Bicarbonate transport inhibitor SITS modulates pH homeostasis triggering apoptosis of DaltonB lymphoma: implication of novel molecular mechanisms. **2014**, 397, 167-78		9
309	Monoclonal antibodies raised against 167-180 aa sequence of human carbonic anhydrase XII inhibit its enzymatic activity. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2014**, 29, 804-10	5.6	13
308	Carborane-based carbonic anhydrase inhibitors: insight into CAII/CAIX specificity from a high-resolution crystal structure, modeling, and quantum chemical calculations. **2014**, 2014, 389869		15
307	Classical sulfonamides and their bioisosters as carbonic anhydrase inhibitors. **2014**, 18-33		3
306	Immunohistochemical reevaluation of carbonic anhydrase IX (CA IX) expression in tumors and normal tissues. **2014**, 141, 219-25		36
305	Prodrug Strategies for Targeting Tumour Hypoxia. **2014**, 283-328		
304	Carbonic anhydrase IX: regulation and role in cancer. **2014**, 75, 199-219		78
303	Regulation of Cancer Cell Metabolism by Hypoxia. **2014**, 75-108		
302	Carbonic anhydrase IX as an imaging and therapeutic target for tumors and metastases. **2014**, 75, 221-54		80
301	Carbonic anhydrase inhibitors drug design. **2014**, 75, 291-323		82
300	Tumor Metabolome Targeting and Drug Development. **2014**,		
299	How far is the horizon? From current targets to future drugs in advanced renal cancer. **2014**, 32, 69-77		
298	Hypoxia and Cancer. **2014**,		4
297	Carbonic Anhydrase: Mechanism, Regulation, Links to Disease, and Industrial Applications. **2014**,		33
296	Carbonic anhydrase IX (CAIX) as a mediator of hypoxia-induced stress response in cancer cells. **2014** , 75, 255-69		53
295	Structural insights into carbonic anhydrase IX isoform specificity of carbohydrate-based sulfamates. **2014**, 57, 8635-45		47
294	Discovery and characterization of novel selective inhibitors of carbonic anhydrase IX. **2014**, 57, 9435-46		65
293	Inhibition of carbonic anhydrase isoforms I, II, IX and XII with novel Schiff bases: identification of selective inhibitors for the tumor-associated isoforms over the cytosolic ones. **2014**, 22, 5883-90		11

292	Cyclic tertiary sulfamates: selective inhibition of the tumor-associated carbonic anhydrases IX and XII by N- and O-substituted acesulfame derivatives. *European Journal of Medicinal Chemistry*, **2014**, 84, 240-6	6.8	37
291	Synthesis of a new series of N-substituted 4-(2-aminoethyl)benzenesulfonamides and their inhibitory effect on human carbonic anhydrase cytosolic isozymes I and II and transmembrane tumor-associated isozymes IX and XII. *European Journal of Medicinal Chemistry*, **2014**, 84, 59-67	6.8	15
290	MicroRNAs in hypoxia and acidic tumor microenvironment. **2014**, 59, 2223-2231		5
289	Chemometric modeling of breast cancer associated carbonic anhydrase IX inhibitors belonging to the ureido-substituted benzene sulfonamide class. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2014**, 29, 877-83	5.6	8
288	Selective inhibition of human carbonic anhydrases by novel amide derivatives of probenecid: synthesis, biological evaluation and molecular modelling studies. **2014**, 22, 3982-8		34
287	Substituted benzene sulfonamides incorporating 1,3,5-triazinyl moieties potently inhibit human carbonic anhydrases II, IX and XII. **2014**, 24, 1310-4		16
286	Arylamino bisphosphonates: potent and selective inhibitors of the tumor-associated carbonic anhydrase XII. **2014**, 24, 1941-3		10
285	Carbonic anhydrase inhibitors. Synthesis of a novel series of 5-substituted 2,4-dichlorobenzenesulfonamides and their inhibition of human cytosolic isozymes I and II and the transmembrane tumor-associated isozymes IX and XII. *European Journal of Medicinal Chemistry*, **2014**, 82, 47-55	6.8	15
284	Role of pHi, and proton transporters in oncogene-driven neoplastic transformation. **2014**, 369, 20130100		86
283	Flow synthesis and biological activity of aryl sulfonamides as selective carbonic anhydrase IX and XII inhibitors. **2014**, 24, 3422-5		14
282	Design, synthesis and evaluation of N-substituted saccharin derivatives as selective inhibitors of tumor-associated carbonic anhydrase XII. **2014**, 22, 1821-31		67
281	Next-generation secondary/tertiary sulfonamide carbonic anhydrase inhibitor. **2014**, 52-67		
280	Anti-chondroitin sulfate proteoglycan 4-specific antibodies modify the effects of vemurafenib on melanoma cells differentially in normoxia and hypoxia. **2015**, 47, 81-90		11
279	The Role of Epithelial-Mesenchymal Transition in Cancer Metastasis. **2015**, 101-121		4
278	A sucrose-binding site provides a lead towards an isoform-specific inhibitor of the cancer-associated enzyme carbonic anhydrase IX. *Acta Crystallographica Section F, Structural Biology Communications*, **2015**, 71, 1352-8	1.1	19
277	Targeting carbonic anhydrase IX activity and expression. **2015**, 20, 2323-48		83
276	A membrane-type-1 matrix metalloproteinase (MT1-MMP)-discoidin domain receptor 1 axis regulates collagen-induced apoptosis in breast cancer cells. **2015**, 10, e0116006		35
275	Expression of hypoxic marker carbonic anhydrase IX predicts poor prognosis in resectable hepatocellular carcinoma. **2015**, 10, e0119181		22

274	Diazenyl derivatives as therapeutic and diagnostic agents acting on central nervous system. **2015**, 15, 42-51		
273	Design and synthesis of benzothiazole-6-sulfonamides acting as highly potent inhibitors of carbonic anhydrase isoforms I, II, IX and XII. **2015**, 23, 4989-4999		23
272	New pyrazolo[4,3-e][1,2,4]triazine sulfonamides as carbonic anhydrase inhibitors. **2015**, 23, 3674-80		33
271	Nuclear imaging of renal tumours: a step towards improved risk stratification. **2015**, 12, 445-50		13
270	Saccharin: a lead compound for structure-based drug design of carbonic anhydrase IX inhibitors. **2015**, 23, 849-54		58
269	Carbonic anhydrase IX promotes myeloid-derived suppressor cell mobilization and establishment of a metastatic niche by stimulating G-CSF production. **2015**, 75, 996-1008		88
268	Dual-display of small molecules enables the discovery of ligand pairs and facilitates affinity maturation. **2015**, 7, 241-9		143
267	FGF2 as a potential prognostic biomarker for proneural glioma patients. **2015**, 54, 385-94		18
266	Plasmonic Particles that Hit Hypoxic Cells. **2015**, 25, 316-323		34
265	X-ray crystallographic and kinetic investigations of 6-sulfamoyl-saccharin as a carbonic anhydrase inhibitor. **2015**, 13, 4064-9		18
264	Synthesis of 6-aryl-substituted sulfocoumarins and investigation of their carbonic anhydrase inhibitory action. **2015**, 23, 1430-6		33
263	[(18)F]VM4-037 MicroPET Imaging and Biodistribution of Two In Vivo CAIX-Expressing Tumor Models. **2015**, 17, 615-9		38
262	Carbonic Anhydrase XIV: Structure, Functions, and Potential Medical Applications. **2015**, 221-237		
261	Synthesis and carbonic anhydrase I, II, IX and XII inhibitory activity of sulfamates incorporating piperazinyl-ureido moieties. **2015**, 23, 5619-25		14
260	Synthesis of sulfonamides incorporating piperazinyl-ureido moieties and their carbonic anhydrase I, II, IX and XII inhibitory activity. **2015**, 25, 3850-3		23
259	Mapping Selective Inhibition of the Cancer-Related Carbonic Anhydrase IX Using Structure-Activity Relationships of Glucosyl-Based Sulfamates. **2015**, 58, 6630-8		22
258	The potential of liposomes with carbonic anhydrase IX to deliver anticancer ingredients to cancer cells in vivo. *International Journal of Molecular Sciences*, **2014**, 16, 230-55	6.3	12
257	Is carbonic anhydrase IX a validated target for molecular imaging of cancer and hypoxia?. **2015**, 11, 1531-41		26

256	Sulfonamide inhibition study of the Eclass carbonic anhydrase from the caries producing pathogen Streptococcus mutans. **2015**, 25, 2291-7		27
255	Carbonic anhydrase II mediates malignant behavior of pulmonary neuroendocrine tumors. **2015**, 52, 183-92		20
254	Fluorinated pyrrolidines and piperidines incorporating tertiary benzenesulfonamide moieties are selective carbonic anhydrase II inhibitors. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015** , 30, 737-45	5.6	30
253	CREB is a key negative regulator of carbonic anhydrase IX (CA9) in gastric cancer. **2015**, 27, 1369-79		10
252	The Ecarbonic anhydrase from the malaria mosquito Anopheles gambiae is highly inhibited by sulfonamides. **2015**, 23, 2303-9		20
251	Designing carbonic anhydrase inhibitors for the treatment of breast cancer. **2015**, 10, 591-7		34
250	ZEB1 transcriptionally regulated carbonic anhydrase 9 mediates the chemoresistance of tongue cancer via maintaining intracellular pH. **2015**, 14, 84		29
249	Discovery of novel isatin-based sulfonamides with potent and selective inhibition of the tumor-associated carbonic anhydrase isoforms IX and XII. **2015**, 13, 6493-9		46
248	Sulfonamide inhibition studies of the Ecarbonic anhydrase from the Antarctic cyanobacterium Nostoc commune. **2015**, 23, 1728-34		32
247	Synthesis of Schiff base derivatives of 4-(2-aminoethyl)-benzenesulfonamide with inhibitory activity against carbonic anhydrase isoforms I, II, IX and XII. **2015**, 25, 2377-81		30
246	Carbonic anhydrase IX inhibition is an effective strategy for osteosarcoma treatment. **2015**, 19, 1593-605		23
245	Assessment of carbonic anhydrase IX expression and extracellular pH in B-cell lymphoma cell line models. **2015**, 56, 1432-9		29
244	Exploring new Probenecid-based carbonic anhydrase inhibitors: Synthesis, biological evaluation and docking studies. **2015**, 23, 5311-8		38
243	High expression of carbonic anhydrase IX is significantly associated with glandular lesions in gastroesophageal junction and with tumorigenesis markers BMI1, MCM4 and MCM7. **2015**, 15, 80		11
242	Human anti-CAIX antibodies mediate immune cell inhibition of renal cell carcinoma in vitro and in a humanized mouse model in vivo. **2015**, 14, 119		35
241	Carving out its niche: A role for carbonic anhydrase IX in pre-metastatic niche development. **2015**, 4, e1048955		7
240	Carbonic anhydrase IX inhibitors in cancer therapy: an update. **2015**, 7, 1407-14		106
239	New ways to image and target tumour hypoxia and its molecular responses. **2015**, 116, 352-7		40

238	In Vivo Loss of Function Screening Reveals Carbonic Anhydrase IX as a Key Modulator of Tumor Initiating Potential in Primary Pancreatic Tumors. **2015**, 17, 473-80		13
237	Sinonasal renal cell-like adenocarcinomas: robust carbonic anhydrase expression. **2015**, 46, 1598-606		23
236	Prognostic relevance of carbonic anhydrase IX expression is distinct in various subtypes of breast cancer and its silencing suppresses self-renewal capacity of breast cancer cells. **2015**, 75, 235-46		40
235	Targeting tumour hypoxia to prevent cancer metastasis. From biology, biosensing and technology to drug development: the METOXIA consortium. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2015**, 30, 689-721	5.6	79
234	Hypoxia-induced carbonic anhydrase IX as a target for cancer therapy: from biology to clinical use. **2015**, 31, 52-64		208
233	Molecular Pathology of Malignant Transformation of Oral Submucous Fibrosis. **2016**, 35, 193-205		17
232	Circulating Carbonic Anhydrase IX and Antiangiogenic Therapy in Breast Cancer. **2016**, 2016, 9810383		14
231	Targeting carbonic anhydrase IX improves the anti-cancer efficacy of mTOR inhibitors. *Oncotarget*, **2016**, 7, 36666-36680	3.3	24
230	Overcoming Hypoxia-Mediated Tumor Progression: Combinatorial Approaches Targeting pH Regulation, Angiogenesis and Immune Dysfunction. **2016**, 4, 27		83
229	Metformin suppresses hypoxia-induced stabilization of HIF-1α through reprogramming of oxygen metabolism in hepatocellular carcinoma. *Oncotarget*, **2016**, 7, 873-84	3.3	70
228	Carbonic anhydrase inhibitors: a review on the progress of patent literature (2011-2016). **2016**, 26, 947-56		31
227	Synthesis and carbonic anhydrase inhibitory effects of new N-glycosylsulfonamides incorporating the phenol moiety. **2016**, 26, 3892-5		7
226	Combination of lactate calcium salt with 5-indanesulfonamide and α-cyano-4-hydroxycinnamic acid to enhance the antitumor effect on HCT116 cells via intracellular acidification. **2016**, 11, 1866-1872		5
225	Hypoxia Suppressed Copper Toxicity during Early Development in Zebrafish Embryos in a Process Mediated by the Activation of the HIF Signaling Pathway. **2016**, 50, 4502-12		23
224	Chitosan-based nanoparticles as drug delivery systems for doxorubicin: Optimization and modelling. **2016**, 147, 304-312		112
223	Isoform-selective inhibitory profile of 2-imidazoline-substituted benzene sulfonamides against a panel of human carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 197-202	5.6	19
222	PEGylated Bis-Sulfonamide Carbonic Anhydrase Inhibitors Can Efficiently Control the Growth of Several Carbonic Anhydrase IX-Expressing Carcinomas. **2016**, 59, 5077-88		45
221	Synthesis of 4-(thiazol-2-ylamino)-benzenesulfonamides with carbonic anhydrase I, II and IX inhibitory activity and cytotoxic effects against breast cancer cell lines. **2016**, 24, 3043-3051		43

220	Acetazolamide Serves as Selective Delivery Vehicle for Dipeptide-Linked Drugs to Renal Cell Carcinoma. **2016**, 15, 2926-2935		35
219	Inhibition of carbonic anhydrase IX in glioblastoma multiforme. **2016**, 109, 81-92		23
218	Selective inhibition of human carbonic anhydrase IX in Xenopus oocytes and MDA-MB-231 breast cancer cells. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 38-44	5.6	9
217	Mycobacterial carbonic anhydrase inhibition with phenolic acids and esters: kinetic and computational investigations. **2016**, 14, 8322-30		23
216	Regulation of HIF1α under Hypoxia by APE1/Ref-1 Impacts CA9 Expression: Dual Targeting in Patient-Derived 3D Pancreatic Cancer Models. **2016**, 15, 2722-2732		70
215	Comparative Evaluation of Affibody Molecules for Radionuclide Imaging of in Vivo Expression of Carbonic Anhydrase IX. **2016**, 13, 3676-3687		24
214	Matriptase activation and shedding through PDGF-D-mediated extracellular acidosis. **2016**, 310, C293-304		7
213	Novel multifunctional pH-sensitive nanoparticles loaded into microbubbles as drug delivery vehicles for enhanced tumor targeting. **2016**, 6, 29321		40
212	Identification of metastasis-associated genes in colorectal cancer using metaDE and survival analysis. **2016**, 11, 568-574		41
211	Selecting Targets for Tumor Imaging: An Overview of Cancer-Associated Membrane Proteins. **2016**, 8, 119-133		62
210	Changes in plasma biomarkers following treatment with cabozantinib in metastatic castration-resistant prostate cancer: a post hoc analysis of an extension cohort of a phase II trial. **2016**, 14, 12		15
209	Poor outcome of hepatocellular carcinoma with stemness marker under hypoxia: resistance to transarterial chemoembolization. **2016**, 29, 1038-49		26
208	1,2-Benzisothiazole Derivatives Bearing 4-, 5-, or 6-Alkyl/arylcarboxamide Moieties Inhibit Carbonic Anhydrase Isoform IX (CAIX) and Cell Proliferation under Hypoxic Conditions. **2016**, 59, 6547-52		15
207	Amido/ureidosubstituted benzenesulfonamides-isatin conjugates as low nanomolar/subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform XII. *European Journal of Medicinal Chemistry*, **2016**, 110, 259-66	6.8	62
206	CA IX is upregulated in CoCl2-induced hypoxia and associated with cell invasive potential and a poor prognosis of breast cancer. **2016**, 48, 271-80		22
205	How many carbonic anhydrase inhibition mechanisms exist?. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 345-60	5.6	485
204	Discovery of Strecker-type α-aminonitriles as a new class of human carbonic anhydrase inhibitors using differential scanning fluorimetry. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 1707-11	5.6	4
203	Intrinsic thermodynamics of inhibitor binding to human carbonic anhydrase IX. **2016**, 1860, 708-18		23

202	Tumor metabolism, cancer cell transporters, and microenvironmental resistance. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 859-66	5.6	44
201	Improved Tumor-Specific Drug Accumulation by Polymer Therapeutics with pH-Sensitive Drug Release Overcomes Chemotherapy Resistance. **2016**, 15, 998-1007		20
200	Isatin analogs as novel inhibitors of Candida spp. β-carbonic anhydrase enzymes. **2016**, 24, 1648-52		18
199	Development of certain new 2-substituted-quinazolin-4-yl-aminobenzenesulfonamide as potential antitumor agents. *European Journal of Medicinal Chemistry*, **2016**, 109, 247-53	6.8	32
198	Fluorescent sulfonamide carbonic anhydrase inhibitors incorporating 1,2,3-triazole moieties: Kinetic and X-ray crystallographic studies. **2016**, 24, 104-12		15
197	Sulfamate inhibitor S4 influences carbonic anhydrase IX ectodomain shedding in colorectal carcinoma cells. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2016**, 31, 779-86	5.6	7
196	Novel derivative of aminobenzenesulfonamide (3c) induces apoptosis in colorectal cancer cells through ROS generation and inhibits cell migration. **2017**, 17, 4		21
195	Molecular Pathways: Hypoxia-Activated Prodrugs in Cancer Therapy. **2017**, 23, 2382-2390		81
194	Pulmonary delivery of triptolide-loaded liposomes decorated with anti-carbonic anhydrase IX antibody for lung cancer therapy. **2017**, 7, 1097		43
193	Remodelling of microRNAs in colorectal cancer by hypoxia alters metabolism profiles and 5-fluorouracil resistance. **2017**, 26, 1552-1564		31
192	Interrogating Bronchoalveolar Lavage Samples via Exclusion-Based Analyte Extraction. **2017**, 22, 348-357		1
191	Overcoming the Limits of Hypoxia in Photodynamic Therapy: A Carbonic Anhydrase IX-Targeted Approach. **2017**, 139, 7595-7602		186
190	Cathepsin K in Lymphangioleiomyomatosis: LAM Cell-Fibroblast Interactions Enhance Protease Activity by Extracellular Acidification. **2017**, 187, 1750-1762		13
189	Crucial role of carbonic anhydrase IX in tumorigenicity of xenotransplanted adult T-cell leukemia-derived cells. **2017**, 108, 435-443		6
188	Synthesis of Fluorinated Nitrogen-Containing Compounds Through Superelectrophilic Activation in Superacid HF/SbF5**This work is dedicated to Pr Jean-Claude Jacquesy with great consideration.. **2017**, 349-388		1
187	Synthesis of an acridine orange sulfonamide derivative with potent carbonic anhydrase IX inhibitory action. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 701-706	5.6	10
186	Synthesis and carbonic anhydrase inhibition of a series of SLC-0111 analogs. **2017**, 25, 2569-2576		62
185	Structure activity study of carbonic anhydrase IX: Selective inhibition with ureido-substituted benzenesulfonamides. *European Journal of Medicinal Chemistry*, **2017**, 132, 184-191	6.8	43

184	Spheroid cultivation of HT-29 carcinoma cell line in liquid marbles. **2017**, 71, 1055-1063		14
183	Carbonic anhydrase inhibition boosts the antitumor effects of Imatinib mesylate via potentiating the antiangiogenic and antimetastatic machineries. **2017**, 316, 123-138		7
182	Proteomic assessment of colorectal cancers and respective resection margins from patients of the Amazon state of Brazil. **2017**, 154, 59-68		3
181	Impact of tumoral carbonic anhydrase IX and Ki-67 expression on survival in oral squamous cell carcinoma patients. **2017**, 14, 5434-5442		5
180	Sulfocoumarin-, Coumarin-, 4-Sulfamoylphenyl-Bearing Indazole-3-carboxamide Hybrids: Synthesis and Selective Inhibition of Tumor-Associated Carbonic Anhydrase Isozymes IX and XII. **2017**, 12, 1578-1584		26
179	Long Chain Alkyl Esters of Hydroxycinnamic Acids as Promising Anticancer Agents: Selective Induction of Apoptosis in Cancer Cells. **2017**, 65, 7228-7239		18
178	Primary mono- and bis-sulfonamides obtained via regiospecific sulfochlorination of N-arylpyrazoles: inhibition profile against a panel of human carbonic anhydrases. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 920-934	5.6	14
177	Exploiting the Ref-1-APE1 node in cancer signaling and other diseases: from bench to clinic. **2017**, 1,		60
176	Quantitative assessment of specific carbonic anhydrase inhibitors effect on hypoxic cells using electrical impedance assays. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 1079-1090	5.6	9
175	The interactome of metabolic enzyme carbonic anhydrase IX reveals novel roles in tumor cell migration and invadopodia/MMP14-mediated invasion. **2017**, 36, 6244-6261		72
174	5T4-specific chimeric antigen receptor modification promotes the immune efficacy of cytokine-induced killer cells against nasopharyngeal carcinoma stem cell-like cells. **2017**, 7, 4859		17
173	Depletion of carbonic anhydrase IX abrogates hypoxia-induced overexpression of stanniocalcin-1 in triple negative breast cancer cells. **2017**, 18, 596-605		8
172	3'UTR polymorphisms of carbonic anhydrase IX determine the miR-34a targeting efficiency and prognosis of hepatocellular carcinoma. **2017**, 7, 4466		37
171	A class of carbonic anhydrase I - selective activators. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2017**, 32, 37-46	5.6	31
170	Benzenesulfonamides bearing pyrrolidinone moiety as inhibitors of carbonic anhydrase IX: synthesis and binding studies. **2017**, 26, 235-246		5
169	New approach of delivering cytotoxic drugs towards CAIX expressing cells: A concept of dual-target drugs. *European Journal of Medicinal Chemistry*, **2017**, 127, 691-702	6.8	18
168	Fluorinated benzenesulfonamide anticancer inhibitors of carbonic anhydrase IX exhibit lower toxic effects on zebrafish embryonic development than ethoxzolamide. **2017**, 40, 309-319		13
167	Synthesis and evaluation of new benzodioxole-based dithiocarbamate derivatives as potential anticancer agents and hCA-I and hCA-II inhibitors. *European Journal of Medicinal Chemistry*, **2017**, 125, 190-196	6.8	25

166	Cross-Talk Between Hypoxia and the Tumour via Exosomes. **2017**,		
165	Past, Present, and Future: Development of Theranostic Agents Targeting Carbonic Anhydrase IX. **2017**, 7, 4322-4339		48
164	PML promotes metastasis of triple-negative breast cancer through transcriptional regulation of HIF1A target genes. *JCI Insight*, **2017**, 2, e87380	9.9	25
163	An update on anticancer drug development and delivery targeting carbonic anhydrase IX. **2017**, 5, e4068		15
162	The cytotoxic, apoptotic and oxidative effects of carbonic anhydrase IX inhibitor on colorectal cancer cells. **2018**, 50, 107-116		13
161	Carbonic anhydrase 9 expression in well-differentiated pancreatic neuroendocrine neoplasms might be associated with aggressive behavior and poor survival. **2018**, 472, 739-748		7
160	Synthesis and biological investigation of new carbonic anhydrase IX (CAIX) inhibitors. **2018**, 284, 12-23		12
159	Acetazolamide-based [F]-PET tracer: In vivo validation of carbonic anhydrase IX as a sole target for imaging of CA-IX expressing hypoxic solid tumors. **2018**, 28, 915-921		8
158	Dual-ligand modified liposomes provide effective local targeted delivery of lung-cancer drug by antibody and tumor lineage-homing cell-penetrating peptide. **2018**, 25, 256-266		67
157	"Seriously Sweet": Acesulfame K Exhibits Selective Inhibition Using Alternative Binding Modes in Carbonic Anhydrase Isoforms. **2018**, 61, 1176-1181		13
156	Evolution of the magic bullet: Single chain antibody fragments for the targeted delivery of immunomodulatory proteins. **2018**, 243, 166-183		13
155	Fluoroenesulphonamides: N-sulphonylurea isosteres showing nanomolar selective cancer-related transmembrane human carbonic anhydrase inhibition. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 804-808	5.6	8
154	Overexpression of FZD1 and CAIX are Associated with Invasion, Metastasis, and Poor-Prognosis of the Pancreatic Ductal Adenocarcinoma. **2018**, 24, 899-906		10
153	Heterocyclic periphery in the design of carbonic anhydrase inhibitors: 1,2,4-Oxadiazol-5-yl benzenesulfonamides as potent and selective inhibitors of cytosolic hCA II and membrane-bound hCA IX isoforms. *Bioorganic Chemistry*, **2018**, 76, 88-97	5.1	37
152	Quinazolinone-Based Anticancer Agents: Synthesis, Antiproliferative SAR, Antitubulin Activity, and Tubulin Co-crystal Structure. **2018**, 61, 1031-1044		58
151	Carbonic anhydrase inhibitors as emerging agents for the treatment and imaging of hypoxic tumors. **2018**, 27, 963-970		139
150	Crystallography and Its Impact on Carbonic Anhydrase Research. **2018**, 2018, 9419521		28
149	Rethinking the Combination of Proton Exchanger Inhibitors in Cancer Therapy. **2017**, 8,		41

148	Carbonic anhydrase IX enhances tumor cell proliferation and tumor progression in osteosarcoma. **2018**, 11, 6879-6886		11
147	Expression of renal cell markers and detection of 3p loss links endolymphatic sac tumor to renal cell carcinoma and warrants careful evaluation to avoid diagnostic pitfalls. **2018**, 6, 107		2
146	Histological architectural classification determines recurrence pattern and prognosis after curative hepatectomy in patients with hepatocellular carcinoma. **2018**, 13, e0203856		9
145	Tumor-associated carbonic anhydrase isoform IX and XII inhibitory properties of certain isatin-bearing sulfonamides endowed with in vitro antitumor activity towards colon cancer. *Bioorganic Chemistry*, **2018**, 81, 425-432	5.1	42
144	Extracellular Vesicles Derived from Hypoxic Colorectal Cancer Cells Confer Metastatic Phenotype to Non-metastatic Cancer Cells. **2018**, 38, 5139-5147		16
143	Discovery of new 2, 5-disubstituted 1,3-selenazoles as selective human carbonic anhydrase IX inhibitors with potent anti-tumor activity. *European Journal of Medicinal Chemistry*, **2018**, 157, 1214-1222	6.8	22
142	Tumor hypoxia directed multimodal nanotherapy for overcoming drug resistance in renal cell carcinoma and reprogramming macrophages. **2018**, 183, 280-294		38
141	Carbonic anhydrase inhibitors as antitumor/antimetastatic agents: a patent review (2008-2018). **2018**, 28, 729-740		121
140	Novel hydrazido benzenesulfonamides-isatin conjugates: Synthesis, carbonic anhydrase inhibitory activity and molecular modeling studies. *European Journal of Medicinal Chemistry*, **2018**, 157, 28-36	6.8	39
139	Cancer Drug Development of Carbonic Anhydrase Inhibitors beyond the Active Site. **2018**, 23,		55
138	Coordinated Regulation of Metabolic Transporters and Migration/Invasion by Carbonic Anhydrase IX. **2018**, 8,		27
137	In Silico Study, Synthesis, and Cytotoxic Activities of Porphyrin Derivatives. **2018**, 11,		7
136	Selective inhibition of carbonic anhydrase-IX by sulphonamide derivatives induces pH and reactive oxygen species-mediated apoptosis in cervical cancer HeLa cells. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 1137-1149	5.6	20
135	Sweet Binders: Carbonic Anhydrase IX in Complex with Sucralose. **2018**, 9, 657-661		9
134	Clinical imaging of hypoxia: Current status and future directions. **2018**, 126, 296-312		19
133	Biophysical, Biochemical, and Cell Based Approaches Used to Decipher the Role of Carbonic Anhydrases in Cancer and to Evaluate the Potency of Targeted Inhibitors. **2018**, 2018, 2906519		3
132	Antibody-pHPMA functionalised fluorescent silica nanoparticles for colorectal carcinoma targeting.. **2018**, 8, 21679-21689		6
131	Nitroimidazole-based inhibitors DTP338 and DTP348 are safe for zebrafish embryos and efficiently inhibit the activity of human CA IX in Xenopus oocytes. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2018**, 33, 1064-1073	5.6	13

130	Hepatocellular Carcinoma with Irregular Rim-Like Arterial Phase Hyperenhancement: More Aggressive Pathologic Features. **2019**, 8, 24-40		27
129	Humanized Monoclonal Antibody Blocking Carbonic Anhydrase 12 Enzymatic Activity Leads to Reduced Tumor Growth. **2019**, 39, 4117-4128		9
128	Carbonic anhydrase inhibitors based on sorafenib scaffold: Design, synthesis, crystallographic investigation and effects on primary breast cancer cells. *European Journal of Medicinal Chemistry*, **2019**, 182, 111600	6.8	19
127	Type 1 Sodium Calcium Exchanger Forms a Complex with Carbonic Anhydrase IX and Via Reverse Mode Activity Contributes to pH Control in Hypoxic Tumors. *Cancers*, **2019**, 11,	6.6	18
126	Advances in the structural annotation of human carbonic anhydrases and impact on future drug discovery. **2019**, 14, 1175-1197		96
125	Carbonic anhydrase inhibitors for the treatment of tumors. **2019**, 331-365		2
124	Harnessing Induced Essentiality: Targeting Carbonic Anhydrase IX and Angiogenesis Reduces Lung Metastasis of Triple Negative Breast Cancer Xenografts. *Cancers*, **2019**, 11,	6.6	19
123	New Monoclonal Antibodies for a Selective Detection of Membrane-Associated and Soluble Forms of Carbonic Anhydrase IX in Human Cell Lines and Biological Samples. **2019**, 9,		4
122	The Role of Sodium Hydrogen Exchanger 1 in Dysregulation of Proton Dynamics and Reprogramming of Cancer Metabolism as a Sequela. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	17
121	Human carbonic anhydrases. **2019**, 151-185		12
120	Dual-drug loaded micelle for combinatorial therapy targeting HIF and mTOR signaling pathways for ovarian cancer treatment. **2019**, 307, 272-281		11
119	New power of self-assembling carbonic anhydrase inhibitor: Short peptide-constructed nanofibers inspire hypoxic cancer therapy. **2019**, 5, eaax0937		56
118	Synthesis and comparative carbonic anhydrase inhibition of new Schiff's bases incorporating benzenesulfonamide, methanesulfonamide, and methylsulfonylbenzene scaffolds. *Bioorganic Chemistry*, **2019**, 92, 103225	5.1	9
117	Synthesis, biological evaluation and in silico modelling studies of 1,3,5-trisubstituted pyrazoles carrying benzenesulfonamide as potential anticancer agents and selective cancer-associated hCA IX isoenzyme inhibitors. *Bioorganic Chemistry*, **2019**, 92, 103222	5.1	16
116	Carbonic Anhydrase as Drug Target. **2019**,		2
115	Antibody-Based Delivery of Cytokine Payloads to Carbonic Anhydrase IX Leads to Cancer Cures in Immunocompetent Tumor-Bearing Mice. **2019**, 18, 1544-1554		8
114	X-Ray Crystallographic Structures of High-Affinity and High-Selectivity Inhibitor Complexes with CA IX That Plays a Special Role in Cancer. **2019**, 203-213		
113	Targeting Hypoxia-Induced Carbonic Anhydrase IX Enhances Immune-Checkpoint Blockade Locally and Systemically. **2019**, 7, 1064-1078		69

112	5-Arylisothiazol-3(2H)-one-1,(1)-(di)oxides: A new class of selective tumor-associated carbonic anhydrases (hCA IX and XII) inhibitors. *European Journal of Medicinal Chemistry*, **2019**, 175, 40-48	6.8	9
111	Cellular and radiobiological effects of carbonic anhydrase IX in human breast cancer cells. **2019**, 41, 2585-2594		15
110	Causes, consequences, and therapy of tumors acidosis. **2019**, 38, 205-222		120
109	Synthesis of saccharin-glycoconjugates targeting carbonic anhydrase using a one-pot cyclization/deprotection strategy. **2019**, 476, 65-70		6
108	A selectivity study of benzenesulfonamide derivatives on human carbonic anhydrase II/IX by 3D-QSAR, Molecular Docking and Molecular Dynamics Simulation. **2019**, 80, 234-243		10
107	Drug Delivery to Hypoxic Tumors Targeting Carbonic Anhydrase IX. **2019**, 223-252		1
106	Novel synthesized SLC-0111 thiazole and thiadiazole analogues: Determination of their carbonic anhydrase inhibitory activity and molecular modeling studies. *Bioorganic Chemistry*, **2019**, 87, 794-802	5.1	28
105	Quantitative Assessment of Affinity Selection Performance by Using DNA-Encoded Chemical Libraries. **2019**, 20, 955-962		28
104	A Flexible Synthesis of Ga-Labeled Carbonic Anhydrase IX (CAIX)-Targeted Molecules via CBT/1,2-Aminothiol Click Reaction. **2018**, 24,		14
103	SLC-0111 enaminone analogs, 3/4-(3-aryl-3-oxopropenyl) aminobenzenesulfonamides, as novel selective subnanomolar inhibitors of the tumor-associated carbonic anhydrase isoform IX. *Bioorganic Chemistry*, **2019**, 83, 549-558	5.1	40
102	Expression and association of carbonic anhydrase IX and cyclooxygenase-2 in colorectal cancer. **2019**, 215, 705-711		6
101	Do CO and oxidative stress induce cancer?: a brief study about the evaluation of PON 1, CAT, CA and XO enzyme levels on head and neck cancer patients. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 459-464	5.6	3
100	Antitumor effects of circ-EPHB4 in hepatocellular carcinoma via inhibition of HIF-1 **2019**, 58, 875-886		16
99	Assessment of the antiproliferative and apoptotic roles of sulfonamide carbonic anhydrase IX inhibitors in HeLa cancer cell line. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 75-86	5.6	17
98	The carbonic anhydrase IX inhibitor SLC-0111 sensitises cancer cells to conventional chemotherapy. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2019**, 34, 117-123	5.6	52
97	Enhancement of the tail hydrophobic interactions within the carbonic anhydrase IX active site via structural extension: Design and synthesis of novel N-substituted isatins-SLC-0111 hybrids as carbonic anhydrase inhibitors and antitumor agents. *European Journal of Medicinal Chemistry*, **2019**,	6.8	63
96	Computational modeling of novel inhibitory peptides targeting proteoglycan like region of carbonic anhydrase IX and validation in HeLa cells. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 1995-2006	3.6	9
95	Identification of potential tumour-associated carbonic anhydrase isozyme IX inhibitors: atom-based 3D-QSAR modelling, pharmacophore-based virtual screening and molecular docking studies. *Journal of Biomolecular Structure and Dynamics*, **2020**, 38, 2156-2170	3.6	9

94	Synthesis and selective inhibitory effects of some 2-oxindole benzenesulfonamide conjugates on human carbonic anhydrase isoforms CA I, CA II, CA IX and CAXII. *Bioorganic Chemistry*, **2020**, 95, 103514	5.1	8
93	Pyrrolo and pyrrolopyrimidine sulfonamides act as cytotoxic agents in hypoxia via inhibition of transmembrane carbonic anhydrases. *European Journal of Medicinal Chemistry*, **2020**, 188, 112021	6.8	9
92	Carbonic anhydrase IX and acid transport in cancer. **2020**, 122, 157-167		40
91	The Anticancer Activity for the Bumetanide-Based Analogs via Targeting the Tumor-Associated Membrane-Bound Human Carbonic Anhydrase-IX Enzyme. **2020**, 13,		13
90	Structural Basis of Nanomolar Inhibition of Tumor-Associated Carbonic Anhydrase IX: X-Ray Crystallographic and Inhibition Study of Lipophilic Inhibitors with Acetazolamide Backbone. **2020**, 63, 13064-13075		11
89	Inhibition of Melanoma Cell Migration and Invasion Targeting the Hypoxic Tumor Associated CAXII. *Cancers*, **2020**, 12,	6.6	5
88	Interplay of Carbonic Anhydrase IX With Amino Acid and Acid/Base Transporters in the Hypoxic Tumor Microenvironment. **2020**, 8, 602668		8
87	Pyridinium derivatives of 3-aminobenzenesulfonamide are nanomolar-potent inhibitors of tumor-expressed carbonic anhydrase isozymes CA IX and CA XII. *Bioorganic Chemistry*, **2020**, 103, 104204	5.1	11
86	Progress in the development of human carbonic anhydrase inhibitors and their pharmacological applications: Where are we today?. **2020**, 40, 2485-2565		73
85	Pharmacokinetics of inhaled nanotherapeutics for pulmonary delivery. **2020**, 326, 222-244		19
84	Quadruple-negative breast cancer: novel implications for a new disease. **2020**, 22, 127		5
83	Discovery of novel artemisinin-sulfonamidehybrids as potential carbonicanhydraseIX inhibitors with improved antiproliferative activities. *Bioorganic Chemistry*, **2020**, 104, 104347	5.1	6
82	MCM2 and Carbonic Anhydrase 9 Are Novel Potential Targets for Neuroblastoma Pharmacological Treatment. *Biomedicines*, **2020**, 8,	4.8	3
81	A comparative study of the binding modes of SLC-0111 and its analogues in the hCA II and hCA IX active sites using QM/MM, molecular docking, MM-GBSA and MD approaches. **2020**, 265, 106439		5
80	Design, synthesis and biological evaluation of novel carbohydrate-based sulfonamide derivatives as antitumor agents. *Bioorganic Chemistry*, **2020**, 104, 104237	5.1	6
79	Carbonic Anhydrase Inhibitors Targeting Metabolism and Tumor Microenvironment. **2020**, 10,		70
78	Synthesis and spectroscopic characterization of new sulfanilamide-functionalized magnetic nanoparticles, and the usability for carbonic anhydrase purification: is there perspective for cancer treatment application?. *Journal of Biomolecular Structure and Dynamics*, **2021**, 39, 7093-7106	3.6	3
77	Pharmacological interventions part III. **2020**, 335-359		1

76	Investigation of the effects of the proton transfer salts of 2-aminopyridine derivatives with 5-sulfosalicylic acid and their Cu(II) complexes on cancer-related carbonic anhydrases: CA IX and CA XII. **2020**, 74, 2365-2374		2
75	A Phase 1 Study of SLC-0111, a Novel Inhibitor of Carbonic Anhydrase IX, in Patients With Advanced Solid Tumors. **2020**, 43, 484-490		82
74	Ternary Co(II), Ni(II) and Cu(II) complexes containing dipyridophenazine and saccharin: Structures, reactivity, binding interactions with biomolecules and DNA damage activity. **2020**, 506, 119532		11
73	Microsecond Simulation of the Proteoglycan-like Region of Carbonic Anhydrase IX and Design of Chemical Inhibitors Targeting pH Homeostasis in Cancer Cells. **2020**, 5, 4270-4281		7
72	Optimizing Energy Transfer in Nanostructures Enables In Vivo Cancer Lesion Tracking via Near-Infrared Excited Hypoxia Imaging. **2020**, 32, e1907718		21
71	Critical Evaluation of Photo-cross-linking Parameters for the Implementation of Efficient DNA-Encoded Chemical Library Selections. **2020**, 22, 204-212		17
70	On-DNA hit validation methodologies for ligands identified from DNA-encoded chemical libraries. **2020**, 533, 235-240		6
69	ROC-1, P21 and CAIX as markers of tumor aggressiveness in bladder carcinoma in Egyptian patients. **2020**, 15, 33		4
68	Plasma insulin-like growth factor binding protein 1 in pulmonary arterial hypertension. **2021**, 55, 35-42		2
67	Synthesis of benzamide derivatives with thiourea-substituted benzenesulfonamides as carbonic anhydrase inhibitors. **2021**, 354, e2000230		9
66	Inhibition of clathrin-mediated endocytosis by knockdown of AP-2 leads to alterations in the plasma membrane proteome. **2021**, 22, 6-22		2
65	PEG Linker Length Strongly Affects Tumor Cell Killing by PEGylated Carbonic Anhydrase Inhibitors in Hypoxic Carcinomas Expressing Carbonic Anhydrase IX. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	3
64	Multitargeting application of proline-derived peptidomimetics addressing cancer-related human matrix metalloproteinase 9 and carbonic anhydrase II. *European Journal of Medicinal Chemistry*, **2021**, 214, 113260	6.8	2
63	Development and initial clinical testing of a multiplexed circulating tumor cell assay in patients with clear cell renal cell carcinoma. **2021**, 15, 2330-2344		4
62	Prediction of activity and selectivity profiles of human Carbonic Anhydrase inhibitors using machine learning classification models. **2021**, 13, 18		3
61	The Clinicopathological Significance of YAP/TAZ Expression in Hepatocellular Carcinoma with Relation to Hypoxia and Stemness. **2021**, 27, 604600		1
60	Carbonic Anhydrase IX Promotes Human Cervical Cancer Cell Motility by Regulating PFKFB4 Expression. *Cancers*, **2021**, 13,	6.6	6
59	In vivo noninvasive preclinical tumor hypoxia imaging methods: a review. **2021**, 97, 593-631		5

58	Inhibition of Carbonic Anhydrase IX Promotes Apoptosis through Intracellular pH Level Alterations in Cervical Cancer Cells. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	6
57	Association of genetic polymorphism rs2071676 in carbonic anhydrase gene (CA9) with the risk of squamous cell carcinoma of lungs and esophagus. **2021**, 76, 2777-2784		
56	Engineered protein-small molecule conjugates empower selective enzyme inhibition. **2021**,		0
55	Genome-wide synthetic lethal screen unveils novel CAIX-NFS1/xCT axis as a targetable vulnerability in hypoxic solid tumors. **2021**, 7,		29
54	Evaluation of carbonic anhydrase IX as a potential therapeutic target in urothelial carcinoma. **2021**, 39, 498.e1-498.e11		0
53	1,2,3-Triazole hybrids as anticancer agents: A review. **2021**, e2100158		12
52	Screening carbonic anhydrase IX inhibitors in traditional Chinese medicine based on electrophoretically mediated microanalysis. **2021**, 232, 122444		1
51	Natural inspired piperine-based sulfonamides and carboxylic acids as carbonic anhydrase inhibitors: Design, synthesis and biological evaluation. *European Journal of Medicinal Chemistry*, **2021**, 225, 113800	6.8	6
50	Mechanisms of Lung Cyst Formation. **2021**, 21-42		
49	pH regulators of the tumoral microenvironment: A general overview. **2021**, 13-33		3
48	Discovery of potent nucleotide pyrophosphatase/phosphodiesterase3 (NPP3) inhibitors with ancillary carbonic anhydrase inhibition for cancer (immuno)therapy. **2021**, 12, 1187-1206		1
47	Reconsidering anion inhibitors in the general context of drug design studies of modulators of activity of the classical enzyme carbonic anhydrase. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 561-580	5.6	51
46	Inhibition of the Ecarbonic anhydrase from the protozoan pathogen with sulphonamides. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2021**, 36, 329-334	5.6	3
45	Newcastle disease virus degrades HIF-1Ethrough proteasomal pathways independent of VHL and p53. *Journal of General Virology*, **2016**, 97, 3174-3182	4.9	13
44	Carbonic anhydrase II in complex with carboxylic acid-based inhibitors. *Acta Crystallographica Section F, Structural Biology Communications*, **2019**, 75, 166-170	1.1	4
43	Addition of carbonic anhydrase 9 inhibitor SLC-0111 to temozolomide treatment delays glioblastoma growth in vivo. *JCI Insight*, **2017**, 2,	9.9	67
42	Switching off malignant mesothelioma: exploiting the hypoxic microenvironment. *Genes and Cancer* , **2016**, 7, 340-354	2.9	18
41	Acidic pH reduces VEGF-mediated endothelial cell responses by downregulation of VEGFR-2; relevance for anti-angiogenic therapies. *Oncotarget*, **2016**, 7, 86026-86038	3.3	19

40	TRPM5 mediates acidic extracellular pH signaling and TRPM5 inhibition reduces spontaneous metastasis in mouse B16-BL6 melanoma cells. *Oncotarget*, **2017**, 8, 78312-78326	3.3	18
39	Hypoxia-targeted gold nanorods for cancer photothermal therapy. *Oncotarget*, **2018**, 9, 26556-26571	3.3	18
38	Targeting HIF2α translation with Tempol in VHL-deficient clear cell renal cell carcinoma. *Oncotarget* , **2012**, 3, 1472-82	3.3	19
37	Sulfonamide derivative targeting carbonic anhydrase IX as a nuclear imaging probe for colorectal cancer detection in vivo. *Oncotarget*, **2015**, 6, 36139-55	3.3	6
36	Experimental Carbonic Anhydrase Inhibitors for the Treatment of Hypoxic Tumors. *Journal of Experimental Pharmacology*, **2020**, 12, 603-617	3	41
35	Application of weighted gene co-expression network analysis to explore the potential diagnostic biomarkers for colorectal cancer. *Molecular Medicine Reports*, **2020**, 21, 2533-2543	2.9	4
34	Regulation of Tumor Metabolism and Extracellular Acidosis by the TIMP-10-CD63 Axis in Breast Carcinoma. *Cells*, **2021**, 10,	7.9	0
33	The Leukemic Bone Marrow Microenvironment: Targeting Hypoxia with Hypoxia-Activated Prodrugs. **2015**, 657-679		
32	Identification of potent human carbonic anhydrase IX inhibitors: a combination of pharmacophore modeling, 3D-QSAR, virtual screening and molecular dynamics simulations. *Journal of Biomolecular Structure and Dynamics*, **2020**, 1-16	3.6	4
31	Carbonic Anhydrase IX Interactome and the Regulation of Cancer Progression. *Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques*, **2021**, 179-204		
30	Oncogenic roles of carbonic anhydrase IX in human nasopharyngeal carcinoma. *International Journal of Clinical and Experimental Pathology*, **2014**, 7, 2942-9	1.4	6
29	Topiramate exhibits anti-tumorigenic and metastatic effects in ovarian cancer cells. *American Journal of Translational Research (discontinued)*, **2018**, 10, 1663-1676	3	5
28	Advances in Anti-Cancer Drug Development Targeting Carbonic Anhydrase IX and XII. **2015**, 5, 3-42		12
27	Application of the dual-tail approach for the design and synthesis of novel Thiopyrimidine-Benzenesulfonamide hybrids as selective carbonic anhydrase inhibitors. *European Journal of Medicinal Chemistry*, **2021**, 228, 114004	6.8	3
26	Synthesis, biological evaluation, and in silico studies of potential activators of apoptosis and carbonic anhydrase inhibitors on isatin-5-sulfonamide scaffold.. *European Journal of Medicinal Chemistry*, **2021**, 228, 113997	6.8	3
25	Targeting Carbonic Anhydrase IX in Tumor Imaging and Theranostic Cancer Therapy. *Progress in Drug Research Fortschritte Der Arzneimittelforschung Progres Des Recherches Pharmaceutiques*, **2021** , 253-279		
24	Intracellular pH-mediated induction of apoptosis in HeLa cells by a sulfonamide carbonic anhydrase inhibitor.. *International Journal of Biological Macromolecules*, **2022**, 201, 37-46	7.9	1
23	Post-translational modifications in tumor-associated carbonic anhydrases. *Amino Acids*, **2021**,	3.5	5

22	Aromatic Sulfonamides including a Sulfonic Acid Tail: New Membrane Impermeant Carbonic Anhydrase Inhibitors for Targeting Selectively the Cancer-Associated Isoforms.. *International Journal of Molecular Sciences*, **2021**, 23,	6.3	4
21	Targeting the Interplay between Cancer Metabolic Reprogramming and Cell Death Pathways as a Viable Therapeutic Path.. *Biomedicines*, **2021**, 9,	4.8	2
20	Evaluation of the Anticancer Activities of Isatin-Based Derivatives. **2022**, 1-25		
19	1,2-Benzisothiazole 1,1-Dioxide (Saccharinate)-Based Compounds Synthesis, Reactivity and Applications. **2022**, 625-648		
18	Targeting carbonic anhydrase IX and XII isoforms with small molecule inhibitors and monoclonal antibodies.. *Journal of Enzyme Inhibition and Medicinal Chemistry*, **2022**, 37, 1278-1298	5.6	6
17	Investigation of carbonic anhydrase inhibitory effects and cytotoxicities of pyrazole-based hybrids carrying hydrazone linker and zinc-binding benzenesulfonamide pharmacophores. *Bioorganic Chemistry*, **2022**, 105969	5.1	0
16	Sulfonamide-Derived Dithiocarbamate Gold(I) Complexes Induce the Apoptosis of Colon Cancer Cells by the Activation of Caspase 3 and Redox Imbalance. *Biomedicines*, **2022**, 10, 1437	4.8	
15	Galectin-1 activates carbonic anhydrase IX and modulates glioma metabolism. *Cell Death and Disease*, **2022**, 13,	9.8	
14	Cancer Therapeutic Targeting of Hypoxia Induced Carbonic Anhydrase IX: From Bench to Bedside. *Cancers*, **2022**, 14, 3297	6.6	10
13	Dual Antigen T Cell Engagers Targeting CA9 as an Effective Immunotherapeutic Modality for Targeting CA9 in Solid Tumors. *Frontiers in Immunology*, 13,	8.4	
12	Synthesis of Sulfonamides Incorporating Piperidinyl-Hydrazidoureido and Piperidinyl-Hydrazidothioureido Moieties and Their Carbonic Anhydrase I, II, IX and XII Inhibitory Activity. **2022**, 27, 5370		0
11	Investigation of the carbonic anhydrase inhibitory activity of benzenesulfonamides incorporating substituted fused-pyrimidine tails.		0
10	Novel 2-substituted thioquinazoline-benzenesulfonamide derivatives as carbonic anhydrase inhibitors with potential anticancer activity.		0
9	Targeting acidogenic metabolism by engineering self-catalytic siRNA nanocarriers/nanocatalysts for amplified tumor apoptosis/ferroptosis. **2022**, 46, 101623		2
8	Evaluation of the Anticancer Activities of Isatin-Based Derivatives. **2022**, 923-947		0
7	Achillea fragrantissima (Forssk.) Sch.Bip Flower Dichloromethane Extract Exerts Anti-Proliferative and Pro-Apoptotic Properties in Human Triple-Negative Breast Cancer (MDA-MB-231) Cells: In Vitro and In Silico Studies. **2022**, 15, 1060		0
6	Development of benzene and benzothiazole-sulfonamide analogues as selective inhibitors of the tumor-associated carbonic anhydrase IX. **2022**, 243, 114793		1
5	Carbonic Anhydrase inhibitors bearing organotelluride moieties as novel agents for antitumor therapy. **2022**, 244, 114811		1

4	Efficient Synthesis with Green Chemistry Approach of Novel Pharmacophores of Imidazole-Based Hybrids for Tumor Treatment: Mechanistic Insights from In Situ to In Silico. **2022**, 14, 5079	0
3	Novel benzenesulfonamide-thiouracil conjugates with a flexible N -ethyl acetamide linker as selective CA IX and CA XII inhibitors.	0
2	First-in-Class Dual Hybrid Carbonic Anhydrase Inhibitors and Transient Receptor Potential Vanilloid 1 Agonists Revert Oxaliplatin-Induced Neuropathy.	0
1	Expression Dynamics of CA IX Epitope in Cancer Cells under Intermittent Hypoxia Correlates with Extracellular pH Drop and Cell Killing by Ureido-Sulfonamide CA IX Inhibitors. **2023**, 24, 4595	0