

# Carbonic Anhydrases

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## Recent Publications on Carbonic Anhydrases:

- [Differential in vitro inhibitory effects of anticancer drugs on tumor-associated carbonic anhydrase isozymes CA IX and CA XII.](#)  
*Carbonic anhydrase IX (CA IX) and, to a lesser extent, carbonic anhydrase...*23rd September, 2008  
Department of Chemistry, Balikesir University Science and Art Faculty,- Methods Find Exp Clin Pharmacol. 2008 Jun;30(5):335-40. ([DOI Direct Link](#))
- [Poorer outcome in stromal HIF-2 alpha- and CA9-positive colorectal adenocarcinomas is associated with wild-type TP53 but not with BNIP3 promoter hypermethylation or apoptosis.](#)  
*Stromal expression of hypoxia inducible factor 2 alpha (HIF-2 alpha) and...*18th September, 2008  
Department of Pathology, GROW - School for Oncology and Developmental- Br J Cancer. 2008 Sep 2;99(5):727-33. Epub 2008 Aug 19. ([DOI Direct Link](#))
- [Three-gene expression signature predicts survival in early-stage squamous cell carcinoma of the lung.](#)  
*PURPOSE: Adjuvant treatment may improve survival in early-stage squamous...*9th September, 2008  
University of Gdansk, Gdansk, Poland.- Clin Cancer Res. 2008 Aug 1;14(15):4794-9. ([DOI Direct Link](#))
- [Carbonic anhydrase inhibitors. Sulfonamide diuretics revisited--old leads for new applications?](#)  
*Sulfonamide diuretics such as hydrochlorothiazide, hydroflumethiazide,...*9th September, 2008  
Universita degli Studi di Firenze, Laboratorio di Chimica Bioinorganica,- Org Biomol Chem. 2008 Jul 21;6(14):2499-506. Epub 2008 May 29. ([DOI Direct Link](#))
- [Carbonic anhydrase inhibitors: inhibition of the beta-class enzymes from the fungal pathogens \*Candida albicans\* and \*Cryptococcus neoformans\* with simple anions.](#)  
*The catalytic activity and inhibition of the beta-carbonic anhydrases...*30th August, 2008  
Universita degli Studi di Firenze, Laboratorio di Chimica Bioinorganica,- Bioorg Med Chem Lett. 2008 Sep 15;18(18):5066-70. Epub 2008 Aug 5. ([DOI Direct Link](#))
- [Carbonic anhydrase inhibitors. Interaction of the antitumor sulfamate EMD 486019 with twelve mammalian carbonic anhydrase isoforms: Kinetic and X-ray crystallographic studies.](#)  
*The new antitumor sulfamate EMD 486019 was investigated for its...*23rd August, 2008  
Universita degli Studi di Firenze, Polo Scientifico, Laboratorio di- Bioorg Med Chem Lett. 2008 Aug 1;18(15):4282-6. Epub 2008 Jul 5. ([DOI Direct Link](#))
- [V2 vasopressin receptor-deficiency causes changes in expression and function of renal and hypothalamic components involved in electrolyte and water homeostasis.](#)  
*Polyuria, hypernatremia and hypovolemia are the major clinical signs of...*22nd August, 2008  
Medical Faculty, University of Leipzig, Institute of Biochemistry,- Am J Physiol Renal Physiol. 2008 Aug 20. ([DOI Direct Link](#))
- [Lack of hypoxic response in uterine leiomyomas despite severe tissue hypoxia.](#)

*Hypoxia is now established as a key factor influencing the pathophysiology...* 19th August, 2008  
Institute of Physiology and Pathophysiology, Johannes Gutenberg- Cancer Res. 2008 Jun  
15;68(12):4719-26. ([DOI Direct Link](#))

- [Carbonic anhydrase IX expression in clear cell renal cell carcinomas negatively correlates with the proportion of the granular cell component.](#)  
*PURPOSE: Adjuvant treatment may improve survival in early-stage squamous...* 15th August, 2008  
- J Clin Oncol. 2008 Aug 1;26(22):3809-11; author reply 3811-2. ([DOI Direct Link](#))
- [Carbonic anhydrase IX expression in clear cell renal cell carcinoma and normal tissues: experiences from \(radio\) immunotherapy.](#)  
*PURPOSE: Adjuvant treatment may improve survival in early-stage squamous...* 15th August, 2008  
- J Clin Oncol. 2008 Aug 1;26(22):3808-9; author reply 3811-2. ([DOI Direct Link](#))
- [Inhibition of human mitochondrial carbonic anhydrases VA and VB with para-\(4-phenyltriazole-1-yl\)-benzenesulfonamide derivatives.](#)  
*A library of 10 novel benzenesulfonamides containing triazole-tethered...* 23rd July, 2008  
Eskitis Institute for Cell and Molecular Therapies, Griffith University,- Bioorg Med Chem Lett. 2008 Aug  
15;18(16):4624-7. Epub 2008 Jul 10. ([DOI Direct Link](#))
- [External pH influences the transcriptional profile of the carbonic anhydrase, CAH-4b in Caenorhabditis elegans.](#)  
*Insight into how organisms adapt to environmental stimuli has become...* 22nd July, 2008  
Department of Biosciences, University of Kent, Canterbury, UK.- Mol Biochem Parasitol. 2008  
Oct;161(2):140-9. Epub 2008 Jul 3. ([DOI Direct Link](#))
- [Carbonic anhydrase in the scleractinian coral Stylophora pistillata: characterization, localization, and role in biomineralization.](#)  
*Carbonic anhydrases (CA) play an important role in biomineralization from...* 12th July, 2008  
Centre Scientifique de Monaco, Avenue Saint-Martin, Principality of- J Biol Chem. 2008 Sep  
12;283(37):25475-84. Epub 2008 Jul 10. ([DOI Direct Link](#))
- [Carbonic anhydrase IX as a predictive biomarker for clear cell renal cell carcinoma.](#)  
*OBJECTIVE: Low-dose-rate (LDR) brachytherapy is an effective treatment for...* 9th July, 2008  
- J Clin Oncol. 2008 Jun 20;26(18):3105-7; author reply 3107-9. ([DOI Direct Link](#))
- [Brachytherapy for oral tongue cancer: an analysis of treatment results with various biological markers.](#)  
*OBJECTIVE: Low-dose-rate (LDR) brachytherapy is an effective treatment for...* 8th July, 2008  
Department of Radiology, Sapporo Medical University, School of Medicine,- Jpn J Clin Oncol. 2008  
Jun;38(6):402-7. ([DOI Direct Link](#))

## BioNews Results for Carbonic Anhydrases

- [Nanoparticles: Into the New Frontier](#)  
*Review of Ophthalmology: Jul 16 2008 7:19AM Matching: carbonic*

## Carbonic Anhydrases Clinical Trials:

- [Phase II Study of CG100649 for Primary Osteoarthritis in Male Subjects](#)  
*Osteoarthritis, Knee; Osteoarthritis, Hip*







## Carbonic Anhydrases Patents:

- 6552053- [Controlling attention and memory by altering neuronal carbonic anhydrase activity](#)
- 6855730- [3-methylidenyl-2-indolinone modulators of protein kinase](#)
- 6922586- [Method and system for detecting electrophysiological changes in pre-cancerous and cancerous tissue](#)
- 6953658- [Method of diagnosing, monitoring, staging, imaging and treating gastrointestinal cancer](#)
- 6957148- [Next-nearest-neighbor sequence determinants of antisense DNA](#)
- 6964849- [Proteins and nucleic acids encoding same](#)
- 6991901- [Proteins and nucleic acids encoding same](#)
- 7045509- [Proteins and nucleic acids encoding same](#)
- 7060275- [Use of protein biomolecular targets in the treatment and visualization of brain tumors](#)
- 7060479- [Full-length human cDNAs encoding potentially secreted proteins](#)
- 7074589- [Nucleic acids encoding BDP-1](#)
- 6821997- [Therapeutic and prophylactic treatment of aging and disorders of aging in humans](#)
- 6803379- [PHARMACOLOGICAL AGENTS AND METHODS OF TREATMENT THAT INACTIVATE PATHOGENIC PROKARYOTIC AND EUKARYOTIC CELLS AND VIRUSES BY ATTACKING HIGHLY CONSERVED DOMAINS IN STRUCTURAL METALLOPROTEIN AND METALLOENZYME TARGETS](#)
- 6797513- [Nucleic acid encoding CLK2 protein kinases](#)
- 6573293- [Pyrrole substituted 2-indolinone protein kinase inhibitors](#)
- 6642232- [3-\[4-Substituted heterocyclyl\)-pyrrol-2-ylmethylidene\]-2- indolinone derivatives as kinase inhibitors](#)
- 6653308- [3-\(4-amidopyrrol-2-ylmethylidene\)-2-indolinone derivatives as protein kinase inhibitors](#)
- 6680335- [Methods of modulating protein tyrosine kinase function with substituted indolinone compounds](#)
- 6682905- [Receptor-type phosphotyrosine phosphatase-alpha](#)
- 6770438- [MN gene and protein](#)
- 6774117- [MN gene and protein](#)
- 6783969- [Cathepsin V-like polypeptides](#)
- 6790965- [Combinatorial dihydrobenzopyran library](#)
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- 7378091- [Antibodies against carbonic anhydrase IX \(CA IX\) tumor antigen](#)
- 7407769- [Method of identifying activity modulators of a polycystin-2L1 taste receptor polypeptide](#)
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- 7205121- [DEP-1 receptor protein tyrosine phosphatase interacting proteins and related methods](#)

- 7202265- [Indolinone combinatorial libraries and related products and methods for the treatment of disease](#)
- 7115710- [Diagnosis and treatment of PTP related disorders](#)
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- 7125905- [Pyrrole substituted 2-indolinone protein kinase inhibitors](#)
- 7141549- [Proteins and nucleic acids encoding same](#)
- 7179830- [Substituted thienoimidazoles useful for disease treatment and prevention](#)
- 7179910- [3-\(4-amidopyrrol-2-ylmethlidene\)-2-indolinone derivatives as protein kinase inhibitors](#)
- 7186514- [MN gene and protein](#)
- 7189564- [PRO1335 nucleic acids](#)
- 7189804- [PRO1335 polypeptides](#)
- 7411674- [Polarizing monochromator](#)

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