



Carbonic Anhydrases

Joni Penttinen



Carbonic Anhydrases:

The Carbonic Anhydrases W.R. Chegwidden, N.D. Carter, Y.H. Edwards, 2000-10 Carbonic anhydrase CA is a seemingly ubiquitous enzyme of profound physiological importance which plays essential roles in respiration acid base homeostasis bone resorption calcification photosynthesis several biosynthetic pathways and a variety of processes involving ion gas and fluid transfer This enzyme which is present in at least three gene families has found favour as a model for the study of evolution of gene families and for site directed mutagenesis in structure function relationships for protein folding and for transgenic and gene target studies Since the early use of CA inhibitors as diuretics and in treating congestive heart failure the enzyme has been target of considerable clinical attention Much of this is now focused on endeavours to produce a new generation of such drugs for the effective treatment of glaucoma and other potential applications Recent data suggesting links between CA and various disease processes including cancer have stimulated further

Carbonic Anhydrases as Biocatalysts Claudiu T. Supuran, Giuseppina De Simone, 2015-01-14 Carbonic anhydrases CAs EC 4.2.1.1 are ubiquitous metalloenzymes present throughout most living organisms and encoded by five evolutionarily unrelated gene families The Carbonic Anhydrases as Biocatalysts From Theory to Medical and Industrial Applications presents information on the growing interest in the study of this enzyme family and their applications to both medicine and biotechnology Offers comprehensive coverage of the carbonic anhydrases enzyme family and their properties as biocatalysts Includes current applications of carbonic anhydrases in biotechnology on the basis of their catalytic efficiency including new technologies for CO₂ capture processes Identifies new targets for drug design studies Provides a selectivity profile for the different carbonic anhydrases and their related biomedical applications

The Carbonic Anhydrases: Current and Emerging Therapeutic Targets W. Richard Chegwidden, Nicholas D. Carter, 2021-10-30 This volume assembles and integrates the wealth of diverse information that is now accumulating in this burgeoning field The existing and potential therapeutic applications of targeting CA cover a remarkably wide range of diseases and disorders and have generated increasing and extensive interest in recent years Its inter disciplinary approach embraces both the most up to date therapeutic application of CA targeting and the latest research data that will provide a platform for the development of novel applications The interested audience comprises scientists and clinicians from many relevant disciplines within science and medicine

Carbonic Anhydrase Claudiu T. Supuran, Andrea Scozzafava, Janet Conway, 2004-05-27 Carbonic Anhydrase Its Inhibitors and Activators provides a state of the art overview of the latest developments and challenges in carbonic anhydrase research Authors describe the mechanisms of action of specific inhibitors in relation to physiological function and present previously unpublished research on CA activators Written by a team of in

Carbonic Anhydrase: Mechanism, Regulation, Links to Disease, and Industrial Applications Susan C. Frost, Robert McKenna, 2013-10-22 The study of carbonic anhydrase has spanned multiple generations of scientists Carbonic anhydrase was first discovered in 1932 by Meldrum and Roughton Inhibition by

sulfanilamide was shown in 1940 by Mann and Keilin Even Hans Krebs contributed to early studies with a paper in 1948 showing the relationship of 25 different sulfonamides to CA inhibition It was he who pointed out the importance of both the charged and uncharged character of these compounds for physiological experiments The field of study that focuses on carbonic anhydrase CA has exploded in recent years with the identification of new families and isoforms The CAs are metalloenzymes which are comprised of 5 structurally different families the alpha beta gamma and delta and epsilon classes The alpha class is found primarily in animals with several isoforms associated with human disease The beta CAs are expressed primarily in plants and are the most divergent The gamma CAs are the most ancient These are structurally related to the beta CAs but have a mechanism more similar to the alpha CAs The delta CAs are found in marine algae and diflagellates The epsilon class is found in prokaryotes in which it is part of the carboxysome shell perhaps supplying RuBisCO with CO₂ for carbon fixation With the excitement surrounding the discovery of disease related CAs scientists have redoubled their efforts to better understand structure function relationships to design high affinity isotype specific inhibitors and to delineate signaling systems that play regulatory roles over expression and activity We have designed the book to cover basic information of mechanism structure and function of the CA families The authors included in this book bring to light the newest data with regard to the role of CA in physiology and pathology across phylums and in unique environmental niches

The Carbonic Anhydrases S.J. Dodgson,1991-05-31 As we approach the twenty first century the problems of industrialization are evident we find there is a greenhouse effect the ozone layer is being depleted the rain is acidified and there is a terrible problem of increasing CO concentrations in the atmo 2 sphere The carbonic anhydrases are a unique family of enzymes that solve these problems in the human body they are responsible for converting CO a gas to 2 HCO which is the biggest intracellular buffer with a concomitant decrease in a 3 hydroxyl ion Globally the functions of the carbonic anhydrases in photosynthesis in rain forests and in the algae and plankton that cover our oceans indicate that they are also of utmost importance in the maintenance of the acid base balance on our planet Although the whole field of CO metabolism is enormous and still rapidly 2 expanding because of the research interests of the editors this book is mainly concerned with mammalian carbonic anhydrases However if the interested reader intends to purify carbonic anhydrases from nonmammalian sources Dr Cheg widden has provided the necessary information in Chapter 7 The carbonic anhydrases were first discovered in 1933 until1976 there were thought to be only two isozymes Since then CA ill IY V VI and VII have been discovered and well characterized There is of course no reason to believe that we have found them all **Carbonic Anhydrases** Claudiu T. Supuran,Alessio Nocentini,2019-07-17 Carbonic Anhydrases provides an interdisciplinary review of the burgeoning carbonic anhydrase CA research area spanning from CAs classification biochemical and structural features to drug design and pharmacology of CA inhibitors and activators finally touching on the biotechnological applications of these metalloenzymes The book adopts a clear step by step approach and introduction to this intricate and highly interdisciplinary field A diverse

range of chapters from international experts speak to CA classification and distribution the mechanisms of action and drug design of inhibitors and activators the druggability of the various isoforms in the treatment of a multitude of diseases and threats to human health Carbonic Anhydrases provides biology biochemistry and medicinal chemistry students and researchers a thorough discussion and update on the evergreen and expanding research area of CAs Offers a full overview of CAs biochemical and structural features as well as drug design and pharmacology of inhibitors and activators Provides a thorough update on the newly identified isoforms modulating chemotypes and innovative biomedical applications Describes the current biotechnological applications of CAs including processes for CO₂ capture Features chapter contributions from international leaders in CA biology medicinal chemistry and pharmacology

Carbonic Anhydrases Joni Penttinen, 2018 In this compilation the authors address the relationship between carbonic anhydrase IX and hypoxia Hypoxia is a key factor influencing a life cycle of CA IX including its expression correct structure stability function and subsequent biological implications Hypoxia also regulates CA IX expression by post transcriptional mechanisms through splicing and mRNA stabilization A review is provided focusing on the sequence of elementary reactions ensuing a catalytic reaction catalytic mechanism of carbonic anhydrase The closing chapter discusses carbonic anhydrases in chloroplasts especially their location in the organelles as well as considers their uses

Bacterial Carbonic Anhydrases, 2024-09-03 Bacterial Carbonic Anhydrases Volume 55 in The Enzymes series highlights new advances in the field with this new volume presenting interesting chapters on a variety of timely topics including Overview on bacterial CA genetic families Bacterial a CAs Bacterial CAs Bacterial CAs Sulfonamide bacterial CA inhibitors Non sulfonamide bacterial CA inhibitors Helicobacter pylori CA inhibition Neisseria gonorrhoea CA inhibition Vancomycin resistant enterococci CA inhibition Pseudomonas aeruginosa CA inhibition Mycobacterium tuberculosis CA inhibition and Challenges for developing bacterial CA inhibitors as novel antibiotics Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in The Enzymes series Highlights new advances on bacterial carbonic anhydrases

Carbonic Anhydrases Joni Penttinen, 2018 **Diseases of the Kidney and Urinary Tract** Robert W. Schrier, 2007 The thoroughly updated Eighth Edition of this classic three volume work provides the most comprehensive current and authoritative information on diseases of the kidney and urinary tract This clinically oriented reference focuses on diagnosis and treatment of specific diseases disorders and complications and incorporates the basic science practicing physicians need to evaluate and manage the disease process Each of the fourteen sections is written by internationally renowned contributors and provides coverage comparable to a complete book The first two sections review renal basic science and describe current diagnostic tools The remaining twelve sections cover various types of diseases including hypertension urological problems and urinary tract concerns Each disease oriented section begins with an up to date review of pathophysiology and then focuses on specific diseases This edition has new lead authors for more than 25 chapters and separate chapters on heart

disease and the kidney liver disease and the kidney and the nephrotic syndrome *Carbonic Anhydrase as Drug Target* Daumantas Matulis, 2019-05-21 This book offers deep insights into the thermodynamics and molecular structures of the twelve catalytically active isoforms of human carbonic anhydrase CA with a particular focus on inhibitor binding for drug design X ray crystallographic structures in combination with enzyme kinetic testing provide information on the interaction of CAs and their inhibitors knowledge which is crucial for rational drug design CAs are zinc carrying enzymes that catalyse the reversible interconversion of carbon dioxide and bicarbonate and are involved in numerous cellular processes They are therefore a common target for drugs The suppression of CA activities through inhibitory compounds has found application for example in diuretics and in glaucoma therapy In this book methods used to determine binding thermodynamics of inhibitory compounds Isothermal titration calorimetry Fluorescent thermal shift assay differential scanning fluorimetry and others will be compared in detail Also types and chemical synthesis of CA inhibitors the use of antibodies against CAs as well as inhibitor application in animals are discussed [Highly Stable Beta-class Carbonic Anhydrases Useful in Carbon Capture Systems](#)

, 2013 The present disclosure relates to beta class carbonic anhydrase polypeptides having improved properties including increased thermostability and or stability in the presence of amine compounds ammonia or carbonate ion The present disclosure also provides formulations and uses of the polypeptides for accelerating the absorption of carbon dioxide from a gas stream into a solution as well as for the release of the absorbed carbon dioxide for further treatment and or sequestering Also provided are polynucleotides encoding the carbonic anhydrase polypeptides and host cells capable of expressing them

Fungal and Protozoan Carbonic Anhydrases, 2025-10-01 Fungal and Protozoan Carbonic Anhydrases Volume 57 in The Enzymes series explores recent advancements in the study of fungal and protozoan carbonic anhydrases CAs This volume presents a comprehensive collection of chapters covering various aspects of these enzymes including an overview of fungal and protozoan CAs genetics molecular biology and phylogenetics the structure and function of fungal carbonic anhydrases and an in depth look at carbonic anhydrases in *Saccharomyces cerevisiae* *Candida* spp and *Cryptococcus neoformans* Additional chapters delve into the *Malassezia* spp and *Sordaria macrospora* CAs as well as protozoan CAs from *Plasmodium falciparum* *Trypanosoma cruzi* *Leishmania* spp *Toxoplasma gondii* and *Entamoeba histolytica* The volume also addresses the challenges in developing selective fungal and protozoal CA inhibitors as anti infective agents providing insights into their potential biomedical applications Provides the authority and expertise of leading contributors from an international board of authors Presents the latest release in The Enzymes series Highlights new advances on Fungal and Protozoan Carbonic Anhydrases **Current List of Medical Literature**, 1956 Includes section Recent book acquisitions varies Recent United States publications formerly published separately by the U S Army Medical Library **Chemically Modified Carbonic Anhydrases Useful in Carbon Capture Systems**, 2013 The present disclosure relates to chemically modified carbonic anhydrase polypeptides and soluble compositions homogenous liquid formulations comprising them The chemically

modified carbonic anhydrase polypeptides have improved properties relative to the same carbonic anhydrase polypeptide that is not chemically modified including the improved properties of increased activity and or stability in the presence of amine compounds ammonia or carbonate ion The present disclosure also provides methods of preparing the chemically modified polypeptides and methods of using the chemically modified polypeptides for accelerating the absorption of carbon dioxide from a gas stream into a solution as well as for the release of the absorbed carbon dioxide for further treatment and or sequestering

Carbonic Anhydrases and Metabolism Claudiu T. Supuran, 2019-04-08 Carbonic anhydrases CAs EC 4.2.1.1 are metalloenzymes present in all kingdoms of life as they equilibrate the reaction between three simple but essential chemical species CO₂ bicarbonate and protons Discovered more than 80 years ago in 1933 these enzymes have been extensively investigated due to the biomedical application of their inhibitors but also because they are an extraordinary example of convergent evolution with seven genetically distinct CA families that evolved independently in Bacteria Archaea and Eukarya CAs are also among the most efficient enzymes known in nature due to the fact that the uncatalyzed hydration of CO₂ is a very slow process and the physiological demands for its conversion to ionic soluble species is very high Inhibition of the CAs has pharmacological applications in many fields such as antiglaucoma anticonvulsant antiobesity and anticancer agents diagnostic tools but is also emerging for designing anti infectives i e antifungal antibacterial and antiprotozoan agents with a novel mechanism of action Mitochondrial CAs are implicated in de novo lipogenesis and thus selective inhibitors of such enzymes may be useful for the development of new antiobesity drugs As tumor metabolism is diverse compared to that of normal cells ultimately relevant contributions on the role of the tumor associated isoforms CA IX and XII in these phenomena have been published and the two isoforms have been validated as novel antitumor antimetastatic drug targets with antibodies and small molecule inhibitors in various stages of clinical development CAs also play a crucial role in other metabolic processes connected with urea biosynthesis gluconeogenesis and so on since many carboxylation reactions catalyzed by acetyl coenzyme A carboxylase or pyruvate carboxylase use bicarbonate not CO₂ as a substrate In organisms other than mammals e g plants algae and cyanobacteria CAs are involved in photosynthesis whereas in many parasites fungi protozoa they are involved in the de novo synthesis of important metabolites lipids nucleic acids etc The metabolic effects related to interference with CA activity however have been scarcely investigated The present Special Issue of Metabolites aims to fill this gap by presenting the latest developments in the field of CAs and their role in metabolism

Annals of the New York Academy of Sciences Thomas Lincoln Casey, Gilbert Van Ingen, Charles Lane Poor, Edmund Otis Hovey, Ralph Winfred Tower, 1877 Records of meetings 1808 1916 in v 11 27

Isozymes Mario C. Rattazzi, John G. Scandalios, Gregory S. Whitt, 1983

Cumulated Index Medicus, 1971

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Carbonic Anhydrases Introduction

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