

Seppo Parkkila

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300
papers

13,567
citations

62
h-index

103
g-index

311
ext. papers

14,511
ext. citations

5.2
avg. IF

5.98
L-index

#	Paper	IF	Citations
300	Carbonic anhydrases: current state of the art, therapeutic applications and future prospects. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2004 , 19, 199-229	5.6	532
299	HFE gene knockout produces mouse model of hereditary hemochromatosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1998 , 95, 2492-7	11.5	462
298	Crystal structure of the catalytic domain of the tumor-associated human carbonic anhydrase IX. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 16233-8	11.5	399
297	Experimental liver cirrhosis induced by alcohol and iron. <i>Journal of Clinical Investigation</i> , 1995 , 96, 620-30	5.9	397
296	The hemochromatosis founder mutation in HLA-H disrupts beta2-microglobulin interaction and cell surface expression. <i>Journal of Biological Chemistry</i> , 1997 , 272, 14025-8	5.4	366
295	Hereditary hemochromatosis: effects of C282Y and H63D mutations on association with beta2-microglobulin, intracellular processing, and cell surface expression of the HFE protein in COS-7 cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 12384-9	11.5	345
294	Carbonic anhydrase IX, MN/CA IX: analysis of stomach complementary DNA sequence and expression in human and rat alimentary tracts. <i>Gastroenterology</i> , 1997 , 112, 398-408	13.3	293
293	Association of the transferrin receptor in human placenta with HFE, the protein defective in hereditary hemochromatosis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 13198-202	11.5	289
292	Carbonic anhydrase inhibitor suppresses invasion of renal cancer cells in vitro. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 2220-4	11.5	228
291	Immunohistochemistry of HLA-H, the protein defective in patients with hereditary hemochromatosis, reveals unique pattern of expression in gastrointestinal tract. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1997 , 94, 2534-9	11.5	225
290	Biochemical characterization of CA IX, one of the most active carbonic anhydrase isozymes. <i>Journal of Biological Chemistry</i> , 2008 , 283, 27799-27809	5.4	224
289	Immunohistochemical study of colorectal tumors for expression of a novel transmembrane carbonic anhydrase, MN/CA IX, with potential value as a marker of cell proliferation. <i>American Journal of Pathology</i> , 1998 , 153, 279-85	5.8	209
288	Association of HFE protein with transferrin receptor in crypt enterocytes of human duodenum. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1999 , 96, 1579-84	11.5	205
287	Characterization of CA XIII, a novel member of the carbonic anhydrase isozyme family. <i>Journal of Biological Chemistry</i> , 2004 , 279, 2719-27	5.4	187
286	Folate deficiency disturbs hepatic methionine metabolism and promotes liver injury in the ethanol-fed micropig. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 10072-7	11.5	158
285	Immunohistochemistry of carbonic anhydrase isozyme IX (MN/CA IX) in human gut reveals polarized expression in the epithelial cells with the highest proliferative capacity. <i>Journal of Histochemistry and Cytochemistry</i> , 1998 , 46, 497-504	3.4	145
284	Characterization of CA XV, a new GPI-anchored form of carbonic anhydrase. <i>Biochemical Journal</i> , 2005 , 392, 83-92	3.8	140

283	Carbonic anhydrase IX in oligodendroglial brain tumors. <i>BMC Cancer</i> , 2008 , 8, 1	4.8	128
282	Expression of a novel transmembrane carbonic anhydrase isozyme XII in normal human gut and colorectal tumors. <i>American Journal of Pathology</i> , 2000 , 156, 577-84	5.8	128
281	Cytochromes P450 2A6, 2E1, and 3A and production of protein-aldehyde adducts in the liver of patients with alcoholic and non-alcoholic liver diseases. <i>Journal of Hepatology</i> , 2000 , 33, 893-901	13.4	126
280	Immunohistochemical localization of carbonic anhydrase isoenzymes VI, II, and I in human parotid and submandibular glands. <i>Journal of Histochemistry and Cytochemistry</i> , 1990 , 38, 941-7	3.4	126
279	Sequential acetaldehyde production, lipid peroxidation, and fibrogenesis in micropig model of alcohol-induced liver disease. <i>Hepatology</i> , 1995 , 22, 1208-1214	11.2	121
278	Carbonic anhydrases in normal gastrointestinal tract and gastrointestinal tumours. <i>World Journal of Gastroenterology</i> , 2005 , 11, 155-63	5.6	117
277	Expression of transmembrane carbonic anhydrase isoenzymes IX and XII in normal human pancreas and pancreatic tumours. <i>Histochemistry and Cell Biology</i> , 2000 , 114, 197-204	2.4	116
276	The coumarin-binding site in carbonic anhydrase accommodates structurally diverse inhibitors: the antiepileptic lacosamide as an example and lead molecule for novel classes of carbonic anhydrase inhibitors. <i>Journal of Medicinal Chemistry</i> , 2010 , 53, 850-4	8.3	110
275	Expression of membrane-associated carbonic anhydrase XIV on neurons and axons in mouse and human brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 1918-23	11.5	108
274	Tumor-associated Carbonic Anhydrases and Their Clinical Significance. <i>Advances in Clinical Chemistry</i> , 2006 , 42, 167-216	5.8	107
273	Immunohistochemical demonstration of acetaldehyde-modified epitopes in human liver after alcohol consumption. <i>Journal of Clinical Investigation</i> , 1991 , 87, 1367-74	15.9	107
272	Distribution of the carbonic anhydrase isoenzymes I, II, and VI in the human alimentary tract. <i>Gut</i> , 1994 , 35, 646-50	19.2	105
271	Gastric hyperplasia in mice with targeted disruption of the carbonic anhydrase gene Car9. <i>Gastroenterology</i> , 2002 , 123, 1889-903	13.3	104
270	Expression of the membrane-associated carbonic anhydrase isozyme XII in the human kidney and renal tumors. <i>Journal of Histochemistry and Cytochemistry</i> , 2000 , 48, 1601-8	3.4	101
269	Crystal structure of human carbonic anhydrase XIII and its complex with the inhibitor acetazolamide. <i>Proteins: Structure, Function and Bioinformatics</i> , 2009 , 74, 164-75	4.2	90
268	Carbonic anhydrase in the alimentary tract. Roles of the different isozymes and salivary factors in the maintenance of optimal conditions in the gastrointestinal canal. <i>Scandinavian Journal of Gastroenterology</i> , 1996 , 31, 305-17	2.4	90
267	Investigations of the esterase, phosphatase, and sulfatase activities of the cytosolic mammalian carbonic anhydrase isoforms I, II, and XIII with 4-nitrophenyl esters as substrates. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 2267-71	2.9	88
266	Expression of carbonic anhydrase IX in breast is associated with malignant tissues and is related to overexpression of c-erbB2. <i>Journal of Pathology</i> , 2002 , 197, 314-21	9.4	87

265	The effects of storage time and sampling season on the stability of serum 25-hydroxy vitamin D and androstenedione. <i>Nutrition and Cancer</i> , 2010 , 62, 51-7	2.8	86
264	Carbonic anhydrase IV expression in rat and human gastrointestinal tract regional, cellular, and subcellular localization. <i>Journal of Clinical Investigation</i> , 1995 , 96, 2907-13	15.9	83
263	Expression of transmembrane carbonic anhydrases IX and XII in ovarian tumours. <i>Histopathology</i> , 2006 , 49, 594-602	7.3	82
262	Biodistribution and pharmacokinetics of 125I-labeled monoclonal antibody M75 specific for carbonic anhydrase IX, an intrinsic marker of hypoxia, in nude mice xenografted with human colorectal carcinoma. <i>International Journal of Cancer</i> , 2003 , 105, 873-81	7.5	82
261	The identification of secreted carbonic anhydrase VI as a constitutive glycoprotein of human and rat milk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001 , 98, 11604-8	11.5	82
260	Cloning, characterization, and sulfonamide and thiol inhibition studies of an α -carbonic anhydrase from <i>Trypanosoma cruzi</i> , the causative agent of Chagas disease. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 1761-71	8.3	81
259	Early alcoholic liver injury: formation of protein adducts with acetaldehyde and lipid peroxidation products, and expression of CYP2E1 and CYP3A. <i>Alcoholism: Clinical and Experimental Research</i> , 1998 , 22, 2118-24	3.7	81
258	Salivary carbonic anhydrase isoenzyme VI. <i>Journal of Physiology</i> , 1999 , 520 Pt 2, 315-20	3.9	81
257	Cloning, characterization, and inhibition studies of a β -carbonic anhydrase from <i>Leishmania donovani</i> chagasi, the protozoan parasite responsible for leishmaniasis. <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 7372-81	8.3	79
256	Crystal structure of the C183S/C217S mutant of human CA VII in complex with acetazolamide. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2010 , 20, 5023-6	2.9	73
255	Identification of an alternatively spliced isoform of carbonic anhydrase XII in diffusely infiltrating astrocytic gliomas. <i>Neuro-Oncology</i> , 2008 , 10, 131-8	1	70
254	Carbonic anhydrase III: a neglected isozyme is stepping into the limelight. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2013 , 28, 231-9	5.6	69
253	Carbonic anhydrase II. A novel biomarker for gastrointestinal stromal tumors. <i>Modern Pathology</i> , 2010 , 23, 743-50	9.8	68
252	Monoclonal antibodies generated in carbonic anhydrase IX-deficient mice recognize different domains of tumour-associated hypoxia-induced carbonic anhydrase IX. <i>Journal of Immunological Methods</i> , 2003 , 282, 117-34	2.5	68
251	Expression of carbonic anhydrases II, IV, VII, VIII and XII in rat brain after kainic acid induced status epilepticus. <i>Neurochemistry International</i> , 2006 , 48, 24-30	4.4	67
250	Identification of carbonic anhydrase XII as the membrane isozyme expressed in the normal human endometrial epithelium. <i>Molecular Human Reproduction</i> , 2000 , 6, 68-74	4.4	67
249	Excess alcohol consumption is common in patients with cytopenia: studies in blood and bone marrow cells. <i>Alcoholism: Clinical and Experimental Research</i> , 2004 , 28, 619-24	3.7	66
248	Alternative splicing variant of the hypoxia marker carbonic anhydrase IX expressed independently of hypoxia and tumour phenotype. <i>British Journal of Cancer</i> , 2008 , 98, 129-36	8.7	65

247	Salivary carbonic anhydrase isoenzyme VI is located in the human enamel pellicle. <i>Caries Research</i> , 1999 , 33, 185-90	4.2	65
246	Carbonic anhydrase isozymes IX and XII in gastric tumors. <i>World Journal of Gastroenterology</i> , 2003 , 9, 1398-403	5.6	65
245	Design, synthesis, and evaluation of hydroxamic acid derivatives as promising agents for the management of Chagas disease. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 298-308	8.3	64
244	Inhibition and binding studies of carbonic anhydrase isozymes I, II and IX with benzimidazo[1,2-c][1,2,3]thiadiazole-7-sulphonamides. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2010 , 25, 863-70	5.6	64
243	The protein tyrosine kinase inhibitors imatinib and nilotinib strongly inhibit several mammalian alpha-carbonic anhydrase isoforms. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009 , 19, 4102-6	2.9	64
242	Recent advances in research on the most novel carbonic anhydrases, CA XIII and XV. <i>Current Pharmaceutical Design</i> , 2008 , 14, 672-8	3.3	64
241	The calcium-binding protein S100P in normal and malignant human tissues. <i>BMC Clinical Pathology</i> , 2008 , 8, 2	3	63
240	Hepatic lipid peroxidation in hereditary hemochromatosis and alcoholic liver injury. <i>Translational Research</i> , 1999 , 133, 451-60		63
239	A low concentration of carbonic anhydrase isoenzyme VI in whole saliva is associated with caries prevalence. <i>Caries Research</i> , 1999 , 33, 178-84	4.2	63
238	Molecular aspects of iron absorption and HFE expression. <i>Gastroenterology</i> , 2001 , 121, 1489-96	13.3	62
237	The tumour-associated carbonic anhydrases CA II, CA IX and CA XII in a group of medulloblastomas and supratentorial primitive neuroectodermal tumours: an association of CA IX with poor prognosis. <i>BMC Cancer</i> , 2010 , 10, 148	4.8	60
236	Phylogeny and expression of carbonic anhydrase-related proteins. <i>BMC Molecular Biology</i> , 2010 , 11, 25	4.5	58
235	Salivary carbonic anhydrase protects gastroesophageal mucosa from acid injury. <i>Digestive Diseases and Sciences</i> , 1997 , 42, 1013-9	4	58
234	Characterization of the first beta-class carbonic anhydrase from an arthropod (<i>Drosophila melanogaster</i>) and phylogenetic analysis of beta-class carbonic anhydrases in invertebrates. <i>BMC Biochemistry</i> , 2010 , 11, 28	4.8	57
233	Carbonic anhydrase XIV: luminal expression suggests key role in renal acidification. <i>Kidney International</i> , 2002 , 61, 2111-8	9.9	57
232	Carbonic anhydrase inhibitors: Inhibition of the new membrane-associated isoform XV with phenols. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2008 , 18, 3593-6	2.9	56
231	Membrane-bound carbonic anhydrases in osteoclasts. <i>Bone</i> , 2007 , 40, 1021-31	4.7	55
230	Secretion of carbonic anhydrase isoenzyme VI (CA VI) from human and rat lingual serous von Ebner's glands. <i>Journal of Histochemistry and Cytochemistry</i> , 2001 , 49, 657-62	3.4	55

229	Expression of carbonic anhydrase V in pancreatic beta cells suggests role for mitochondrial carbonic anhydrase in insulin secretion. <i>Journal of Biological Chemistry</i> , 1998 , 273, 24620-3	5.4	55
228	Centrilobular distribution of acetaldehyde and collagen in the ethanol-fed micropig. <i>Hepatology</i> , 1993 , 18, 954-60	11.2	55
227	Membrane-bound carbonic anhydrase IV is expressed in the luminal plasma membrane of the human gallbladder epithelium. <i>Hepatology</i> , 1996 , 24, 1104-8	11.2	53
226	A class of sulfonamides with strong inhibitory action against the β -carbonic anhydrase from <i>Trypanosoma cruzi</i> . <i>Journal of Medicinal Chemistry</i> , 2013 , 56, 5773-81	8.3	51
225	Differential expression of cytoplasmic carbonic anhydrases, CA I and II, and membrane-associated isozymes, CA IX and XII, in normal mucosa of large intestine and in colorectal tumors. <i>Digestive Diseases and Sciences</i> , 2001 , 46, 2179-86	4	51
224	Carbonic anhydrase related proteins: molecular biology and evolution. <i>Sub-Cellular Biochemistry</i> , 2014 , 75, 135-56	5.5	50
223	Expression of iron-related genes in human brain and brain tumors. <i>BMC Neuroscience</i> , 2009 , 10, 36	3.2	50
222	Localization of carbonic anhydrase XII to the basolateral membrane of H ⁺ -secreting cells of mouse and rat kidney. <i>Journal of Histochemistry and Cytochemistry</i> , 2003 , 51, 1217-24	3.4	50
221	Expression of carbonic anhydrase IX in mouse tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 2004 , 52, 1313-22	3.4	50
220	Expression of the transmembrane carbonic anhydrases, CA IX and CA XII, in the human male excurrent ducts. <i>Molecular Human Reproduction</i> , 2001 , 7, 611-6	4.4	49
219	Cell surface expression of HFE protein in epithelial cells, macrophages, and monocytes. <i>Haematologica</i> , 2000 , 85, 340-5	6.6	48
218	Demonstration of ethanol-induced protein adducts in oral leukoplakia (pre-cancer) and cancer. <i>Journal of Oral Pathology and Medicine</i> , 2008 , 37, 157-65	3.3	47
217	Hypoxia upregulates expression of human endosialin gene via hypoxia-inducible factor 2. <i>British Journal of Cancer</i> , 2008 , 99, 1348-56	8.7	46
216	Anion inhibition studies of the β -carbonic anhydrase from the protozoan pathogen <i>Trypanosoma cruzi</i> , the causative agent of Chagas disease. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 4472-6	3.4	45
215	Carbonic anhydrase activators: activation of isozyme XIII with amino acids and amines. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2006 , 16, 3955-9	2.9	45
214	Carbonic anhydrase II in the endothelium of glial tumors: a potential target for therapy. <i>Neuro-Oncology</i> , 2007 , 9, 308-13	1	44
213	Expression of a novel carbonic anhydrase, CA XIII, in normal and neoplastic colorectal mucosa. <i>BMC Cancer</i> , 2005 , 5, 41	4.8	44
212	Sequential acetaldehyde production, lipid peroxidation, and fibrogenesis in micropig model of alcohol-induced liver disease. <i>Hepatology</i> , 1995 , 22, 1208-14	11.2	43

211	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, 2616-25 ^{5.6}	43
210	Carbonic anhydrase inhibitors. Inhibition of the newly isolated murine isozyme XIII with anions. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 5435-9	2.9 42
209	Immunohistochemical demonstration of human carbonic anhydrase isoenzyme II in brain tumours. <i>The Histochemical Journal</i> , 1995 , 27, 974-982	42
208	Carbonic anhydrase isoenzymes II and I are present in the zona glomerulosa cells of the human adrenal gland. <i>Histochemistry</i> , 1993 , 99, 37-41	42
207	Secretory carbonic anhydrase isoenzyme (CA VI) in human serum. <i>Clinical Chemistry</i> , 1997 , 43, 2318-2322 ^{5.5}	41
206	Carbonic anhydrase IX is highly expressed in hereditary nonpolyposis colorectal cancer. <i>Cancer Epidemiology Biomarkers and Prevention</i> , 2007 , 16, 1760-6	4 41
205	Transmembrane carbonic anhydrase, MN/CA IX, is a potential biomarker for biliary tumours. <i>Journal of Hepatology</i> , 2001 , 35, 643-9	13.4 41
204	Mitochondrial carbonic anhydrase in the nervous system: expression in neuronal and glial cells. <i>Journal of Neurochemistry</i> , 2000 , 75, 2212-20	6 40
203	Location of a membrane-bound carbonic anhydrase isoenzyme (CA IV) in the human male reproductive tract. <i>Journal of Histochemistry and Cytochemistry</i> , 1993 , 41, 751-7	3.4 40
202	Competitive time-resolved immunofluorometric assay for quantifying carbonic anhydrase VI in saliva. <i>Clinical Chemistry</i> , 1993 , 39, 2154-2157	5.5 40
201	The structural comparison between membrane-associated human carbonic anhydrases provides insights into drug design of selective inhibitors. <i>Biopolymers</i> , 2014 , 101, 769-78	2.2 39
200	Bone morphogenetic protein 4 expression in multiple normal and tumor tissues reveals its importance beyond development. <i>Modern Pathology</i> , 2013 , 26, 10-21	9.8 39
199	Carbonic anhydrases II and XII are up-regulated in osteoclast-like cells in advanced human atherosclerotic plaques-Tampere Vascular Study. <i>Annals of Medicine</i> , 2010 , 42, 360-70	1.5 38
198	Significance of pH regulation and carbonic anhydrases in tumour progression and implications for diagnostic and therapeutic approaches. <i>BJU International</i> , 2008 , 101 Suppl 4, 16-21	5.6 38
197	The role of carbonic anhydrase VI in bitter taste perception: evidence from the Car6 ^{+/?} mouse model. <i>Journal of Biomedical Science</i> , 2014 , 21, 82	13.3 37
196	Novel carbonic anhydrase autoantibodies and renal manifestations in patients with primary Sjogren's syndrome. <i>Rheumatology</i> , 2011 , 50, 1453-7	3.9 37
195	Expression of carbonic anhydrases IX and XII during mouse embryonic development. <i>BMC Developmental Biology</i> , 2006 , 6, 22	3.1 37
194	The expression of carbonic anhydrase II in hematological malignancies. <i>Clinical Cancer Research</i> , 2002 , 8, 2240-5	12.9 37

193	Expression of membrane-bound carbonic anhydrases IV, IX, and XIV in the mouse heart. <i>Journal of Histochemistry and Cytochemistry</i> , 2006 , 54, 1379-91	3.4	36
192	Carbonic anhydrase inhibitors. Inhibition of cytosolic isozyme XIII with aromatic and heterocyclic sulfonamides: a novel target for the drug design. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2004 , 14, 3757-62	2.9	36
191	Acetaldehyde Adducts in Blood and Bone Marrow of Patients With Ethanol-Induced Erythrocyte Abnormalities. <i>Molecular Medicine</i> , 2001 , 7, 401-405	6.2	36
190	Hepatic and extrahepatic expression of the new iron regulatory protein hemojuvelin. <i>Haematologica</i> , 2004 , 89, 1441-5	6.6	36
189	Salivary carbonic anhydrase VI concentration and its relation to basic characteristics of saliva in young men. <i>Acta Physiologica Scandinavica</i> , 1997 , 161, 221-5		35
188	Effects of iron loading on muscle: genome-wide mRNA expression profiling in the mouse. <i>BMC Genomics</i> , 2007 , 8, 379	4.5	35
187	Evidence of acetaldehyde-protein adduct formation in rat brain after lifelong consumption of ethanol. <i>Alcohol and Alcoholism</i> , 2000 , 35, 458-63	3.5	35
186	Circadian periodicity in salivary carbonic anhydrase VI concentration. <i>Acta Physiologica Scandinavica</i> , 1995 , 154, 205-11		35
185	Discovery of 1,1-Biphenyl-4-sulfonamides as a New Class of Potent and Selective Carbonic Anhydrase XIV Inhibitors. <i>Journal of Medicinal Chemistry</i> , 2015 , 58, 8564-72	8.3	34
184	Carbonic anhydrase related protein VIII and its role in neurodegeneration and cancer. <i>Current Pharmaceutical Design</i> , 2010 , 16, 3264-76	3.3	34
183	Carbonic anhydrase gene expression in CA II-deficient (Car2 ^{-/-}) and CA IX-deficient (Car9 ^{-/-}) mice. <i>Journal of Physiology</i> , 2006 , 571, 319-27	3.9	34
182	A high activity carbonic anhydrase isoenzyme (CA II) is present in mammalian spermatozoa. <i>Histochemistry</i> , 1991 , 95, 477-82		34
181	<i>Drosophila melanogaster</i> : a model organism for controlling Dipteran vectors and pests. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2015 , 30, 505-13	5.6	33
180	Gastric pit cell hyperplasia and glandular atrophy in carbonic anhydrase IX knockout mice: studies on two strains C57/BL6 and BALB/C. <i>Transgenic Research</i> , 2005 , 14, 655-63	3.3	33
179	Abnormal cerebellar development and ataxia in CARP VIII morphant zebrafish. <i>Human Molecular Genetics</i> , 2013 , 22, 417-32	5.6	32
178	The plasma membrane carbonic anhydrase in murine hepatocytes identified as isozyme XIV. <i>BMC Gastroenterology</i> , 2002 , 2, 13	3	32
177	HFE mutations do not account for transfusional iron overload in patients with acute myeloid leukemia. <i>Transfusion</i> , 2001 , 41, 828-31	2.9	32
176	Carbonic anhydrase enzymes II, VII, IX and XII in colorectal carcinomas. <i>World Journal of Gastroenterology</i> , 2016 , 22, 8168-77	5.6	32

175	Induction of cytochrome P450 enzymes and generation of protein-aldehyde adducts are associated with sex-dependent sensitivity to alcohol-induced liver disease in micropigs. <i>Hepatology</i> , 1999 , 30, 1011-7 ^{11.2}	31
174	Immunohistochemistry of carbonic anhydrase in human placenta and fetal membranes. <i>Histochemistry</i> , 1994 , 101, 91-8	31
173	Long-term ethanol consumption and macrocytosis: diagnostic and pathogenic implications. <i>Translational Research</i> , 2006 , 147, 191-6	30
172	Free radicals in alcoholic myopathy: indices of damage and preventive studies. <i>Free Radical Biology and Medicine</i> , 2002 , 32, 683-7	7.8 30
171	Tumor-associated carbonic anhydrases and their clinical significance. <i>Advances in Clinical Chemistry</i> , 2006 , 42, 167-216	5.8 30
170	ECA-specific inhibitor dithiocarbamate Fc14-584B: a novel antimycobacterial agent with potential to treat drug-resistant tuberculosis. <i>Journal of Enzyme Inhibition and Medicinal Chemistry</i> , 2017 , 32, 832-840 ^{5.6}	29
169	Immunohistochemical demonstration of the carbonic anhydrase isoenzymes I and II in pancreatic tumours. <i>The Histochemical Journal</i> , 1995 , 27, 133-8	29
168	An overview of the distribution and function of carbonic anhydrase in mammals. <i>Exs</i> , 2000 , 79-93	29
167	Phytochemicals as Modulators of Long Non-Coding RNAs and Inhibitors of Cancer-Related Carbonic Anhydrases. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3 28
166	Oral colonization by <i>Streptococcus mutans</i> and caries development is reduced upon deletion of carbonic anhydrase VI expression in saliva. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2011 , 1812, 1567-76	6.9 28
165	Analysis of a shortened form of human carbonic anhydrase VII expressed in vitro compared to the full-length enzyme. <i>Biochimie</i> , 2010 , 92, 1072-80	4.6 28
164	Characterization and inhibition of the recently discovered carbonic anhydrase isoforms CA XIII, XIV and XV. <i>Current Topics in Medicinal Chemistry</i> , 2007 , 7, 893-9	3 28
163	Expression pattern of carbonic anhydrase IX in Medullary thyroid carcinoma supports a role for RET-mediated activation of the HIF pathway. <i>American Journal of Pathology</i> , 2014 , 184, 953-965	5.8 27
162	Carbonic anhydrase isozymes II, IX, and XII in uterine tumors. <i>Apmis</i> , 2012 , 120, 117-29	3.4 27
161	Recent Advances In the Pathology of Alcoholic Myopathy. <i>Alcoholism: Clinical and Experimental Research</i> , 2001 , 25, 54S-59S	3.7 27
160	An Update on the Metabolic Roles of Carbonic Anhydrases in the Model Alga <i>Chlamydomonas reinhardtii</i> . <i>Metabolites</i> , 2018 , 8,	5.6 26
159	T tubules and surface membranes provide equally effective pathways of carbonic anhydrase-facilitated lactic acid transport in skeletal muscle. <i>PLoS ONE</i> , 2010 , 5, e15137	3.7 26
158	Protein-protein interactions: inhibition of mammalian carbonic anhydrases I-XV by the murine inhibitor of carbonic anhydrase and other members of the transferrin family. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5529-35	8.3 25

157	Expression studies of neogenin and its ligand hemojuvelin in mouse tissues. <i>Journal of Histochemistry and Cytochemistry</i> , 2007 , 55, 85-96	3.4	25
156	Alcoholic macrocytosis--is there a role for acetaldehyde and adducts?. <i>Addiction Biology</i> , 2004 , 9, 3-10	4.6	25
155	Covalent protein adducts in the liver as a result of ethanol metabolism and lipid peroxidation. <i>Laboratory Investigation</i> , 1994 , 70, 537-46	5.9	25
154	Expression patterns and subcellular localization of carbonic anhydrases are developmentally regulated during tooth formation. <i>PLoS ONE</i> , 2014 , 9, e96007	3.7	25
153	The cytoprotective effect of alpha-tocopherol and daidzein against d-galactosamine-induced oxidative damage in the rat liver. <i>Metabolism: Clinical and Experimental</i> , 2007 , 56, 865-75	12.7	24
152	Carbonic anhydrase isozyme-II-deficient mice lack the duodenal bicarbonate secretory response to prostaglandin E2. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 15247-52	11.5	24
151	Role of carbonic anhydrases in skin wound healing. <i>Experimental and Molecular Medicine</i> , 2017 , 49, e334	12.8	23
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