

Alan J. Barrett

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153
papers

18,868
citations

62
h-index

137
g-index

162
ext. papers

20,268
ext. citations

7.2
avg, IF

6.81
L-index

#	Paper	IF	Citations
153	Cathepsin B, Cathepsin H, and cathepsin L. <i>Methods in Enzymology</i> , 1981 , 80 Pt C, 535-61	1.7	1372
152	A direct spectrophotometric microassay for sulfated glycosaminoglycans in cartilage cultures. <i>Connective Tissue Research</i> , 1982 , 9, 247-8	3.3	1153
151	The interaction of alpha 2-macroglobulin with proteinases. Characteristics and specificity of the reaction, and a hypothesis concerning its molecular mechanism. <i>Biochemical Journal</i> , 1973 , 133, 709-24	3.8	899
150	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. <i>Nucleic Acids Research</i> , 2012 , 40, D343-50	20.1	686
149	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 2010 , 38, D227-33	20.1	670
148	The MEROPS database of proteolytic enzymes, their substrates and inhibitors in 2017 and a comparison with peptidases in the PANTHER database. <i>Nucleic Acids Research</i> , 2018 , 46, D624-D632	20.1	643
147	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. <i>Nucleic Acids Research</i> , 2014 , 42, D503-9	20.1	602
146	Evolutionary families of metallopeptidases. <i>Methods in Enzymology</i> , 1995 , 248, 183-228	1.7	601
145	Twenty years of the MEROPS database of proteolytic enzymes, their substrates and inhibitors. <i>Nucleic Acids Research</i> , 2016 , 44, D343-50	20.1	489
144	Evolutionary families of peptidase inhibitors. <i>Biochemical Journal</i> , 2004 , 378, 705-16	3.8	459
143	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 2006 , 34, D270-2	20.1	455
142	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 2008 , 36, D320-5	20.1	453
141	Families of serine peptidases. <i>Methods in Enzymology</i> , 1994 , 244, 19-61	1.7	423
140	A new assay for cathepsin B1 and other thiol proteinases. <i>Analytical Biochemistry</i> , 1972 , 47, 280-93	3.1	389
139	Cathepsin B1. A lysosomal enzyme that degrades native collagen. <i>Biochemical Journal</i> , 1974 , 137, 387-98	3.8	343
138	A rapid and reproducible assay for collagenase using [1-14C]acetylated collagen. <i>Analytical Biochemistry</i> , 1979 , 99, 340-5	3.1	337
137	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 2004 , 32, D160-4	20.1	325

136	An asparaginyl endopeptidase processes a microbial antigen for class II MHC presentation. <i>Nature</i> , 1998 , 396, 695-9	50.4	299
135	Human cathepsin B1. Purification and some properties of the enzyme. <i>Biochemical Journal</i> , 1973 , 131, 809-22	3.8	291
134	Cloning, isolation, and characterization of mammalian legumain, an asparaginyl endopeptidase. <i>Journal of Biological Chemistry</i> , 1997 , 272, 8090-8	5.4	265
133	The place of human gamma-trace (cystatin C) amongst the cysteine proteinase inhibitors. <i>Biochemical and Biophysical Research Communications</i> , 1984 , 120, 631-6	3.4	263
132	Families of cysteine peptidases. <i>Methods in Enzymology</i> , 1994 , 244, 461-86	1.7	261
131	Evolution of proteins of the cystatin superfamily. <i>Journal of Molecular Evolution</i> , 1990 , 30, 60-71	3.1	251
130	The cystatins: a new class of peptidase inhibitors. <i>Trends in Biochemical Sciences</i> , 1987 , 12, 193-196	10.3	240
129	Alpha 2-macroglobulin. <i>Methods in Enzymology</i> , 1981 , 80 Pt C, 737-54	1.7	238
128	Inhibition of mammalian legumain by some cystatins is due to a novel second reactive site. <i>Journal of Biological Chemistry</i> , 1999 , 274, 19195-203	5.4	210
127	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 1999 , 27, 325-31	20.1	187
126	The interaction of alpha2-macroglobulin with proteinases. Binding and inhibition of mammalian collagenases and other metal proteinases. <i>Biochemical Journal</i> , 1974 , 139, 359-68	3.8	184
125	CA074 methyl ester: a proinhibitor for intracellular cathepsin B. <i>Archives of Biochemistry and Biophysics</i> , 1992 , 299, 377-80	4.1	176
124	Identification of the active site of legumain links it to caspases, clostripain and gingipains in a new clan of cysteine endopeptidases. <i>FEBS Letters</i> , 1998 , 441, 361-5	3.8	169
123	Classification of peptidases. <i>Methods in Enzymology</i> , 1994 , 244, 1-15	1.7	169
122	MEROPS: the protease database. <i>Nucleic Acids Research</i> , 2002 , 30, 343-6	20.1	160
121	The two cysteine endopeptidases of legume seeds: purification and characterization by use of specific fluorometric assays. <i>Archives of Biochemistry and Biophysics</i> , 1993 , 303, 208-13	4.1	158
120	The degradation of articular collagen by neutrophil proteinases. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1977 , 483, 386-97	3.8	155
119	Families and clans of serine peptidases. <i>Archives of Biochemistry and Biophysics</i> , 1995 , 318, 247-50	4.1	152

118	Evolutionary Lines of Cysteine Peptidases. <i>Biological Chemistry</i> , 2001 , 382,	4.5	149
117	The possible role of neutrophil proteinases in damage to articular cartilage. <i>Agents and Actions</i> , 1978 , 8, 11-8		148
116	Evolutionary lines of cysteine peptidases. <i>Biological Chemistry</i> , 2001 , 382, 727-33	4.5	145
115	Phosphorylation, glycosylation, and proteolytic activity of the 52-kD estrogen-induced protein secreted by MCF7 cells. <i>Journal of Cell Biology</i> , 1987 , 104, 253-62	7.3	134
114	Inhibition of cartilage proteoglycan release by a specific inactivator of cathepsin B and an inhibitor of matrix metalloproteinases. Evidence for two converging pathways of chondrocyte-mediated proteoglycan degradation. <i>Arthritis and Rheumatism</i> , 1993 , 36, 1709-17		119
113	Families of aspartic peptidases, and those of unknown catalytic mechanism. <i>Methods in Enzymology</i> , 1995 , 248, 105-20	1.7	114
112	Leukocyte elastase. <i>Methods in Enzymology</i> , 1981 , 80 Pt C, 581-8	1.7	110
111	Stem bromelain: amino acid sequence and implications for weak binding of cystatin. <i>FEBS Letters</i> , 1989 , 247, 419-24	3.8	108
110	Cloning and expression of mouse legumain, a lysosomal endopeptidase. <i>Biochemical Journal</i> , 1998 , 335 (Pt 1), 111-7	3.8	107
109	The MEROPS database as a protease information system. <i>Journal of Structural Biology</i> , 2001 , 134, 95-102	3.4	106
108	Amino acid sequence of the intracellular cysteine proteinase inhibitor cystatin B from human liver. <i>Biochemical and Biophysical Research Communications</i> , 1985 , 131, 1187-92	3.4	99
107	The degradation of human glomerular basement membrane with purified lysosomal proteinases: evidence for the pathogenic role of the polymorphonuclear leucocyte in glomerulonephritis. <i>Clinical Science and Molecular Medicine</i> , 1978 , 54, 233-40		99
106	MEROPS: the peptidase database. <i>Nucleic Acids Research</i> , 2000 , 28, 323-5	20.1	97
105	Cathepsins BI and D. Action on human cartilage proteoglycans. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1973 , 302, 411-9	3.8	97
104	Cathepsin G. <i>Methods in Enzymology</i> , 1981 , 80 Pt C, 561-5	1.7	95
103	[57] Cystatin, the egg white inhibitor of cysteine proteinases. <i>Methods in Enzymology</i> , 1981 , 771-778	1.7	93
102	Inhibition by alpha-macroglobulin and other serum proteins. <i>Biochemical Journal</i> , 1973 , 131, 823-31	3.8	91
101	An improved color reagent for use in Barrett's assay of Cathepsin B. <i>Analytical Biochemistry</i> , 1976 , 76, 374-6	3.1	89

100	The proteolytic activities of chymopapain, papain, and papaya proteinase III. <i>BBA - Proteins and Proteomics</i> , 1985 , 828, 196-204		88
99	Thimet oligopeptidase and oligopeptidase M or neurolysin. <i>Methods in Enzymology</i> , 1995 , 248, 529-56	1.7	85
98	Tripeptidyl-peptidase I is apparently the CLN2 protein absent in classical late-infantile neuronal ceroid lipofuscinosis. <i>BBA - Proteins and Proteomics</i> , 1999 , 1429, 496-500		74
97	Oligopeptidases, and the emergence of the prolyl oligopeptidase family. <i>Biological Chemistry Hoppe-Seyler</i> , 1992 , 373, 353-60		74
96	Microassay for cathepsin D shows an unexpected effect of cycloheximide on limb-bone rudiments in organ culture. <i>Experimental Cell Research</i> , 1970 , 61, 470-2	4.2	72
95	The effects of selective matrix degradation on the short-term compressive properties of adult human articular cartilage. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1992 , 1116, 147-54	4	70
94	Immunoinhibition of intracellular protein digestion in macrophages. <i>Journal of Experimental Medicine</i> , 1973 , 137, 1124-41	16.6	70
93	Asparagine peptide lyases: a seventh catalytic type of proteolytic enzymes. <i>Journal of Biological Chemistry</i> , 2011 , 286, 38321-38328	5.4	65
92	Structure of membrane glutamate carboxypeptidase. <i>BBA - Proteins and Proteomics</i> , 1997 , 1339, 247-52		64
91	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. <i>Biochemical Journal</i> , 1999 , 339, 743-749	3.8	61
90	Identification of plasma kallikrein as an activator of latent collagenase in rheumatoid synovial fluid. <i>BBA - Proteins and Proteomics</i> , 1982 , 702, 133-42		61
89	Activation of Progelatinase A by Mammalian Legumain, a Recently Discovered Cysteine Proteinase. <i>Biological Chemistry</i> , 2001 , 382,	4.5	59
88	Characterization of a mitochondrial metallopeptidase reveals neurolysin as a homologue of thimet oligopeptidase. <i>Journal of Biological Chemistry</i> , 1995 , 270, 2092-8	5.4	56
87	The amino acid sequence of a novel inhibitor of cathepsin D from potato. <i>FEBS Letters</i> , 1990 , 267, 13-5	3.8	54
86	Aza-peptide epoxides: a new class of inhibitors selective for clan CD cysteine proteases. <i>Journal of Medicinal Chemistry</i> , 2002 , 45, 4958-60	8.3	53
85	Ananain: a novel cysteine proteinase found in pineapple stem. <i>Archives of Biochemistry and Biophysics</i> , 1988 , 267, 262-70	4.1	51
84	An alternative quenched fluorescence substrate for Pz-peptidase. <i>Analytical Biochemistry</i> , 1990 , 186, 112-5	3.1	50
83	Specific inhibition of cartilage breakdown. <i>Nature</i> , 1969 , 222, 285-6	50.4	49

82	Activation of progelatinase A by mammalian legumain, a recently discovered cysteine proteinase. <i>Biological Chemistry</i> , 2001 , 382, 777-83	4.5	49
81	The disulphide bridges of human cystatin C (Etrace) and chicken cystatin. <i>FEBS Letters</i> , 1984 , 170, 370-374.8		45
80	Evolution of alpha 2-macroglobulin. The structure of a protein homologous with human alpha 2-macroglobulin from plaice (<i>Pleuronectes platessa</i> L.) plasma. <i>Biochemical Journal</i> , 1982 , 205, 105-15	3.8	45
79	Immunolocalization of human cystatins in neutrophils and lymphocytes. <i>Histochemistry</i> , 1984 , 80, 373-7		42
78	The immunocytochemical demonstration of cathepsin D. <i>Journal of Histochemistry and Cytochemistry</i> , 1972 , 20, 261-5	3.4	41
77	Selective cleavage of glycol bonds by papaya proteinase IV. <i>FEBS Letters</i> , 1990 , 260, 195-7	3.8	40
76	Papaya proteinase IV amino acid sequence. <i>FEBS Letters</i> , 1989 , 258, 109-12	3.8	37
75	Interactions of papaya proteinase IV with inhibitors. <i>FEBS Letters</i> , 1990 , 262, 58-60	3.8	37
74	Human kininogens. <i>Methods in Enzymology</i> , 1988 , 163, 240-56	1.7	36
73	Legumain forms from plants and animals differ in their specificity. <i>Biological Chemistry</i> , 2001 , 382, 953-94.5	4.5	35
72	Families and clans of cysteine peptidases. <i>Journal of Computer - Aided Molecular Design</i> , 1996 , 6, 1-11		35
71	Rapid isolation of human kininogens. <i>Thrombosis Research</i> , 1987 , 48, 187-93	8.2	34
70	Using the MEROPS Database for Proteolytic Enzymes and Their Inhibitors and Substrates. <i>Current Protocols in Bioinformatics</i> , 2014 , 48, 1.25.1-33	24.2	33
69	Managing peptidases in the genomic era. <i>Biological Chemistry</i> , 2003 , 384, 873-82	4.5	33
68	Effect of cortisol on the synthesis of chondroitin sulphate by embryonic cartilage. <i>Nature</i> , 1966 , 211, 83-4	50.4	32
67	Species of peptidases. <i>Biological Chemistry</i> , 2007 , 388, 1151-7	4.5	31
66	Video enhanced imaging of the fluorescent Na ⁺ probe SBFI indicates that colonic crypts absorb fluid by generating a hypertonic interstitial fluid. <i>FEBS Letters</i> , 1990 , 260, 187-94	3.8	31
65	Colorimetric and fluorimetric microplate assays for legumain and a staining reaction for detection of the enzyme after electrophoresis. <i>Analytical Biochemistry</i> , 1999 , 273, 278-83	3.1	30

64	Inhibition of cysteine proteinases by a protein inhibitor from potato. <i>FEBS Letters</i> , 1990 , 269, 328-30	3.8	30
63	Evidence that extracellular cathepsin D is not responsible for the resorption of cartilage matrix in culture. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1982 , 714, 307-12	4	30
62	Neutral proteinase of rabbit skin: an enzyme capable of degrading skin protein and inducing an inflammatory response. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974 , 350, 1-12	3.8	30
61	Inhibition of distant caspase homologues by natural caspase inhibitors. <i>Biochemical Journal</i> , 2001 , 357, 575-580	3.8	28
60	Types and families of endopeptidases. <i>Biochemical Society Transactions</i> , 1991 , 19, 707-15	5.1	28
59	The role of aspartic and cysteine proteinases in albumin degradation by rat kidney cortical lysosomes. <i>Archives of Biochemistry and Biophysics</i> , 1987 , 256, 687-91	4.1	28
58	Human cathepsin D. <i>Advances in Experimental Medicine and Biology</i> , 1977 , 95, 291-300	3.6	28
57	Inhibition of mammalian legumain by Michael acceptors and AzaAsn-halomethylketones. <i>Biological Chemistry</i> , 2002 , 383, 1205-14	4.5	27
56	Pig kidney legumain: an asparaginyl endopeptidase with restricted specificity. <i>Biochemical Journal</i> , 1999 , 339, 743	3.8	27
55	Chicken alpha2-proteinase inhibitor: a serum protein homologous with ovoinhibitor of egg white. <i>Biochimica Et Biophysica Acta (BBA) - Protein Structure</i> , 1974 , 371, 52-62		27
54	Activation of human prolegumain by cleavage at a C-terminal asparagine residue. <i>Biochemical Journal</i> , 2000 , 352, 327	3.8	26
53	The preparation of fully active chymopapain free of contaminating proteinases. <i>Biological Chemistry Hoppe-Seyler</i> , 1990 , 371, 1083-8		26
52	Proteolytic and other metabolic pathways in lysosomes. <i>Biochemical Society Transactions</i> , 1984 , 12, 899-902	3.02	26
51	Clostripain: characterization of the active site. <i>FEBS Letters</i> , 1991 , 283, 277-80	3.8	25
50	Introduction: metalloproteinases and their clans 2004 , 231-267		24
49	Aza-peptide epoxides: potent and selective inhibitors of <i>Schistosoma mansoni</i> and pig kidney legumains (asparaginyl endopeptidases). <i>Biological Chemistry</i> , 2003 , 384, 1613-8	4.5	23
48	Pyroglutamyl-peptidase I: cloning, sequencing, and characterisation of the recombinant human enzyme. <i>Protein Expression and Purification</i> , 2003 , 28, 111-9	2	22
47	Unsuitability of leucine naphthylamide for the histochemical demonstration of lysosomal proteolytic activity. <i>Nature</i> , 1969 , 224, 279-80	50.4	22

46	The biochemistry and function of mucosubstances. <i>The Histochemical Journal</i> , 1971 , 3, 213-21		22
45	Chondromucoprotein-degrading enzymes. <i>Nature</i> , 1966 , 211, 1188-9	50.4	22
44	Activity of Pz-peptidase and endo-oligopeptidase are due to the same enzyme. <i>Biochemical and Biophysical Research Communications</i> , 1989 , 162, 1460-4	3.4	21
43	Purification and characterization of Pz-peptidase from rabbit muscle. <i>Archives of Biochemistry and Biophysics</i> , 1989 , 274, 138-44	4.1	21
42	Distribution of cystatin C (gamma-trace), an inhibitor of lysosomal cysteine proteinases, in the anterior lobe of simian and human pituitary glands. <i>Neuroendocrinology</i> , 1985 , 41, 400-4	5.6	21
41	FLUSYS: a software package for the collection and analysis of kinetic and scanning data from Perkin-Elmer fluorimeters. <i>Bioinformatics</i> , 1990 , 6, 118-9	7.2	18
40	Preparation of antibody fragments: conditions for proteolysis compared by SDS slab-gel electrophoresis and quantitation of antibody yield. <i>Journal of Immunological Methods</i> , 1978 , 21, 305-15	2.5	18
39	Inhibition of distant caspase homologues by natural caspase inhibitors. <i>Biochemical Journal</i> , 2001 , 357, 575-80	3.8	16
38	Dipeptidyl-peptidase II is related to lysosomal Pro-X carboxypeptidase. <i>BBA - Proteins and Proteomics</i> , 1996 , 1298, 1-3		16
37	Nomenclature Committee of the International Union of Biochemistry and Molecular Biology (NC-IUBMB). Enzyme nomenclature. Recommendations 1992. Supplement 2: corrections and additions (1994). <i>FEBS Journal</i> , 1995 , 232, 1-6		16
36	A distinct thimet peptidase from rat liver mitochondria. <i>FEBS Letters</i> , 1990 , 264, 84-6	3.8	16
35	Tosyl-lysyl chloromethane alters glucocorticoid-receptor complex nuclear binding and physical properties. <i>Endocrinology</i> , 1984 , 115, 65-72	4.8	16
34	The biochemistry of the action of chymopapain in relief of sciatica. <i>Spine</i> , 1986 , 11, 688-94	3.3	15
33	Structure/function relationships in the inhibition of thimet oligopeptidase by carboxyphenylpropyl-peptides. <i>FEBS Letters</i> , 1991 , 294, 183-6	3.8	13
32	Quantitative assessment of human proteinases as agents for chemonucleolysis. <i>Spine</i> , 1988 , 13, 188-92	3.3	13
31	Introduction: The Clans and Families of Cysteine Peptidases 2013 , 1743-1773		11
30	The characterization of calpains and calpain inhibitors from chicken gizzard smooth muscle. <i>Biochemical Society Transactions</i> , 1984 , 12, 1106-1107	5.1	11
29	Cathepsin D: the lysosomal aspartic proteinase. <i>Novartis Foundation Symposium</i> , 1979 , 37-50		11

28	Introduction: Metallopeptidases and Their Clans 2013 , 325-370		10
27	Immunolocalization of thimet oligopeptidase in chicken embryonic fibroblasts. <i>Experimental Cell Research</i> , 1995 , 216, 80-5	4.2	10
26	Pitrilysin. <i>Methods in Enzymology</i> , 1995 , 248, 684-92	1.7	10
25	The possible role of neutrophil proteinases in damage to articular cartilage. 1978. <i>Agents and Actions</i> , 1994 , 43, 194-200; discussion 200-1		9
24	Which proteinases degrade cartilage matrix ?. <i>Seminars in Arthritis and Rheumatism</i> , 1981 , 11, 52-56	5.3	8
23	Immunoglobulin E antibodies to papaya proteinases and their relevance to chemonucleolysis. <i>Spine</i> , 1995 , 20, 981-5	3.3	7
22	Effect of X-ray contrast media on the action of chymopapain on the intervertebral disc: an in vitro study of cartilage degradation. <i>British Journal of Radiology</i> , 1984 , 57, 475-7	3.4	7
21	A comparison of Pfam and MEROPS: two databases, one comprehensive, and one specialised. <i>BMC Bioinformatics</i> , 2003 , 4, 17	3.6	6
20	Proteases. <i>Current Protocols in Protein Science</i> , 2001 , Chapter 21, Unit 21.1	3.1	6
19	Thimet oligopeptidase 2004 , 352-356		6
18	An Introduction to Peptidases and the Merops Database 2007 , 161-179		6
17	Thimet oligopeptidase: site-directed mutagenesis disproves previous assumptions about the nature of the catalytic site. <i>FEBS Letters</i> , 1998 , 435, 16-20	3.8	5
16	Plasma arginine esterase in cystic fibrosis: kinetics of activation, identification as plasma kallikrein, reaction with alpha 2-macroglobulin and comparison with levels in normal plasma. <i>Pediatric Research</i> , 1982 , 16, 613-20	3.2	5
15	Introduction: The Classification of Proteinases. <i>Novartis Foundation Symposium</i> , 1-13		5
14	Potential metal ligands in the insulinase superfamily of endopeptidases. <i>Biochemical Society Transactions</i> , 1991 , 19, 289S	5.1	4
13	Peptidases: a view of classification and nomenclature 1999 , 1-12		3
12	Plasma from rheumatoid arthritis patients does not contain abnormally high levels of alpha 2-macroglobulin-proteinase complexes. <i>Arthritis and Rheumatism</i> , 1987 , 30, 872-7		3
11	Peptidases 2014 ,		2

10	Influence of proteinase inhibitors on glucocorticoid receptor binding. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1984 , 798, 187-91	4	2
9	Proteases 2001 ,		1
8	N-[1(RS)-carboxy-3-phenylpropyl]peptides as inhibitors of thimet oligopeptidase. <i>Biochemical Society Transactions</i> , 1991 , 19, 290S	5.1	1
7	Quantification of peptide aldehyde ligands immobilized for the affinity chromatography of endopeptidases. <i>Analytical Biochemistry</i> , 1992 , 204, 328-31	3.1	1
6	Animal Legumain 2013 , 2309-2314		
5	Thimet Oligopeptidase 2013 , 504-509		
4	Neurolysin 2013 , 509-513		
3	Neurolysin 2004 , 356-359		
2	Introduction: Unsequenced Serine Peptidases 2013 , 3737		
1	Peptidases2, 86-94		