Neil David Rawlings

List of Publications by Year
in descending order

87 papers	16,351 citations	53794 45 h-index	69250 77 g-index
99 all docs	99 docs citations	99 times ranked	22654 citing authors

#	Article	IF	Citations
1	How to use the <scp><i>MEROPS</i></scp> database and website to help understand peptidase specificity. Protein Science, 2021, 30, 83-92.	7.6	44
2	Nonviral Peptidases. , 2021, , 1-17.		0
3	Nonviral Peptidases. , 2021, , 1152-1169.		0
4	Twenty-five years of nomenclature and classification of proteolytic enzymes. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2020, 1868, 140345.	2.3	18
5	Origins of peptidases. Biochimie, 2019, 166, 4-18.	2.6	30
6	Twenty years of bioinformatics research for protease-specific substrate and cleavage site prediction: a comprehensive revisit and benchmarking of existing methods. Briefings in Bioinformatics, 2019, 20, 2150-2166.	6.5	70
7	Genome properties in 2019: a new companion database to InterPro for the inference of complete functional attributes. Nucleic Acids Research, 2019, 47, D564-D572.	14.5	27
8	InterPro in 2019: improving coverage, classification and access to protein sequence annotations. Nucleic Acids Research, 2019, 47, D351-D360.	14.5	1,291
9	iProt-Sub: a comprehensive package for accurately mapping and predicting protease-specific substrates and cleavage sites. Briefings in Bioinformatics, 2019, 20, 638-658.	6.5	166
10	The MEROPS database of proteolytic enzymes, their substrates and inhibitors in 2017 and a comparison with peptidases in the PANTHER database. Nucleic Acids Research, 2018, 46, D624-D632.	14.5	1,234
11	Using the MEROPS Database for Investigation of Lysosomal Peptidases, Their Inhibitors, and Substrates. Methods in Molecular Biology, 2017, 1594, 213-226.	0.9	4
12	InterPro in 2017â€"beyond protein family and domain annotations. Nucleic Acids Research, 2017, 45, D190-D199.	14.5	1,358
13	Peptidase specificity from the substrate cleavage collection in the MEROPS database and a tool to measure cleavage site conservation. Biochimie, 2016, 122, 5-30.	2.6	54
14	Twenty years of the<i>MEROPS</i>database of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2016, 44, D343-D350.	14.5	648
15	Creating a specialist protein resource network: a meeting report for the protein bioinformatics and community resources retreat: Figure 1.. Database: the Journal of Biological Databases and Curation, 2015, 2015, bav063.	3.0	8
16	Bacterial calpains and the evolution of the calpain (C2) family of peptidases. Biology Direct, 2015, 10, 66.	4.6	15
17	Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. ELife, 2015, 4, e06974.	6.0	198
18	Key challenges for the creation and maintenance of specialist protein resources. Proteins: Structure, Function and Bioinformatics, 2015, 83, 1005-1013.	2.6	13

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19	A novel RCE1 isoform is required for H-Ras plasma membrane localization and is regulated by USP17. Biochemical Journal, 2014, 457, 289-300.	3.7	16
20	Using the MEROPS Database for Proteolytic Enzymes and Their Inhibitors and Substrates. Current Protocols in Bioinformatics, 2014, 48, 1.25.1-33.	25.8	39
21	New mini- zincin structures provide a minimal scaffold for members of this metallopeptidase superfamily. BMC Bioinformatics, 2014, 15, 1.	2.6	541
22	Genome Sequence of the Tsetse Fly (<i>Glossina morsitans</i>): Vector of African Trypanosomiasis. Science, 2014, 344, 380-386.	12.6	254
23	Structure and computational analysis of a novel protein with metallopeptidase-like and circularly permuted winged-helix-turn-helix domains reveals a possible role in modified polysaccharide biosynthesis. BMC Bioinformatics, 2014, 15, 75.	2.6	1
24	Genomic analysis of the causative agents of coccidiosis in domestic chickens. Genome Research, 2014, 24, 1676-1685.	5.5	176
25	<i>MEROPS</i>: the database of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2014, 42, D503-D509.	14.5	782
26	Antarease. , 2013, , 1079-1081.		0
27	LUD, a new protein domain associated with lactate utilization. BMC Bioinformatics, 2013, 14, 341.	2.6	8
28	Identification and prioritization of novel uncharacterized peptidases for biochemical characterization. Database: the Journal of Biological Databases and Curation, 2013, 2013, bat022.	3.0	6
29	Bacteriophage T4 Prohead Endopeptidase. , 2013, , 3560-3562.		0
30	The first structure in a family of peptidase inhibitors reveals an unusual Ig-like fold. F1000Research, 2013, 2, 154.	1.6	2
31	The first structure in a family of peptidase inhibitors reveals an unusual Ig-like fold. F1000Research, 2013, 2, 154.	1.6	3
32	Evolution of the Thermopsin Peptidase Family (A5). PLoS ONE, 2013, 8, e78998.	2.5	4
33	ADAM15 Peptidase. , 2013, , 1122-1125.		0
34	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. Nucleic Acids Research, 2012, 40, D343-D350.	14.5	1,047
35	Structural and Sequence Analysis of Imelysin-Like Proteins Implicated in Bacterial Iron Uptake. PLoS ONE, 2011, 6, e21875.	2.5	17
36	Asparagine Peptide Lyases. Journal of Biological Chemistry, 2011, 286, 38321-38328.	3.4	89

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37	Structural Analysis of Papain-Like NlpC/P60 Superfamily Enzymes with a Circularly Permuted Topology Reveals Potential Lipid Binding Sites. PLoS ONE, 2011, 6, e22013.	2.5	22
38	MEROPS: the peptidase database. Nucleic Acids Research, 2010, 38, D227-D233.	14.5	786
39	Peptidase inhibitors in the MEROPS database. Biochimie, 2010, 92, 1463-1483.	2.6	74
40	Prokaryote-derived protein inhibitors of peptidases: A sketchy occurrence and mostly unknown function. Biochimie, 2010, 92, 1644-1656.	2.6	47
41	A large and accurate collection of peptidase cleavages in the MEROPS database. Database: the Journal of Biological Databases and Curation, 2009, 2009, bap015-bap015.	3.0	37
42	Pepsin homologues in bacteria. BMC Genomics, 2009, 10, 437.	2.8	30
43	The MEROPS batch BLAST: A tool to detect peptidases and their non-peptidase homologues in a genome. Biochimie, 2008, 90, 243-259.	2.6	68
44	Nonâ€viral Peptidases. , 2008, , 876-883.		0
45	Unusual phyletic distribution of peptidases as a tool for identifying potential drug targets. Biochemical Journal, 2007, 401, e5-7.	3.7	8
46	Fxna, a novel gene differentially expressed in the rat ovary at the time of folliculogenesis, is required for normal ovarian histogenesis. Development (Cambridge), 2007, 134, 945-957.	2.5	18
47	MEROPS: the peptidase database. Nucleic Acids Research, 2007, 36, D320-D325.	14.5	497
48	â€˜Speciesâ€™ of peptidases. Biological Chemistry, 2007, 388, 1151-7.	2.5	32
49	An Introduction to Peptidases and the Merops Database. , 2007, , 161-179.		10
50	MEROPS: the peptidase database. Nucleic Acids Research, 2006, 34, D270-D272.	14.5	477
51	Peptidases, families, and clans. , 2005, , .		0
52	Genome of the Host-Cell Transforming Parasite Theileria annulata Compared with T. parva. Science, 2005, 309, 131-133.	12.6	285
53	Introduction: metallopeptidases and their clans. , 2004, , 231-267.		31
54	MEROPS: the peptidase database. Nucleic Acids Research, 2004, 32, 160D-164.	14.5	355

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55	The PepSY domain: a regulator of peptidase activity in the microbial environment?. Trends in Biochemical Sciences, 2004, 29, 169-172.	7.5	68
56	Evolutionary families of peptidase inhibitors. Biochemical Journal, 2004, 378, 705-716.	3.7	528
57	Introduction: aspartic peptidases and their clans. , 2004, , 3-12.		10
58	The CHAP domain: a large family of amidases including GSP amidase and peptidoglycan hydrolases. Trends in Biochemical Sciences, 2003, 28, 234-237.	7.5	209
59	A comparison of Pfam and MEROPS: two databases, one comprehensive, and one specialised. BMC Bioinformatics, 2003, 4, 17.	2.6	7
60	Managing Peptidases in the Genomic Era. Biological Chemistry, 2003, 384, 873-82.	2.5	36
61	MEROPS: the protease database. Nucleic Acids Research, 2002, 30, 343-346.	14.5	190
62	The MEROPS Database as a Protease Information System. Journal of Structural Biology, 2001, 134, 95-102.	2.8	124
63	Evolutionary Lines of Cysteine Peptidases. Biological Chemistry, 2001, 382, 727-33.	2.5	179
64	MEROPS: the peptidase database. Nucleic Acids Research, 2000, 28, 323-325.	14.5	109
65	Tripeptidyl-peptidase I is apparently the CLN2 protein absent in classical late-infantile neuronal ceroid lipofuscinosis. BBA - Proteins and Proteomics, 1999, 1429, 496-500.	2.1	89
66	MEROPS: the peptidase database. Nucleic Acids Research, 1999, 27, 325-331.	14.5	421
67	Thimet oligopeptidase: site-directed mutagenesis disproves previous assumptions about the nature of the catalytic site. FEBS Letters, 1998, 435, 16-20.	2.8	5
68	Identification of the active site of legumain links it to caspases, clostripain and gingipains in a new clan of cysteine endopeptidases. FEBS Letters, 1998, 441, 361-365.	2.8	197
69	Cloning, Isolation, and Characterization of Mammalian Legumain, an Asparaginyl Endopeptidase. Journal of Biological Chemistry, 1997, 272, 8090-8098.	3.4	314
70	A Primitive Enzyme for a Primitive Cell: The Protease Required for Excystation of Giardia. Cell, 1997, 89, 437-444.	28.9	146
71	Structure of membrane glutamate carboxypeptidase. BBA - Proteins and Proteomics, 1997, 1339, 247-252.	2.1	79
72	Families and clans of cysteine peptidases. Journal of Computer - Aided Molecular Design, 1996, 6, 1-11.	1.0	54

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73	Dipeptidyl-peptidase II is related to lysosomal Pro-X carboxypeptidase. BBA - Proteins and Proteomics, 1996, 1298, 1-3.	2.1	17
74	[7] Families of aspartic peptidases, and those of unknown catalytic mechanism. Methods in Enzymology, 1995, 248, 105-120.	1.0	131
75	[32] Thimet oligopeptidase and oligopeptidase M or neurolysin. Methods in Enzymology, 1995, 248, 529-556.	1.0	92
76	Families and Clans of Serine Peptidases. Archives of Biochemistry and Biophysics, 1995, 318, 247-250.	3.0	177
77	[13] Evolutionary families of metallopeptidases. Methods in Enzymology, 1995, 248, 183-228.	1.0	707
78	[32] Families of cysteine peptidases. Methods in Enzymology, 1994, 244, 461-486.	1.0	311
79	[2] Families of serine peptidases. Methods in Enzymology, 1994, 244, 19-61.	1.0	506
80	Oligopeptidases, and the Emergence of the Prolyl Oligopeptidase Family. Biological Chemistry Hoppe-Seyler, 1992, 373, 353-360.	1.4	86
81	The Baculovirus<i>Autographa californica</i>Nuclear Polyhedrosis Virus Genome Includes a Papain-Like Sequence. Biological Chemistry Hoppe-Seyler, 1992, 373, 1211-1216.	1.4	43
82	Types and families of endopeptidases. Biochemical Society Transactions, 1991, 19, 707-715.	3.4	36
83	Potential metal ligands in the insulinase superfamily of endopeptidases. Biochemical Society Transactions, 1991, 19, 289S-289S.	3.4	4
84	Evolution of proteins of the cystatin superfamily. Journal of Molecular Evolution, 1990, 30, 60-71.	1.8	277
85	FLUSYS: a software package for the collection and analysis of kinetic and scanning data from Perkin-Elmer fluorimeters. Bioinformatics, 1990, 6, 118-119.	4.1	19
86	Stem bromelain: Amino acid sequence and implications for weak binding of cystatin. FEBS Letters, 1989, 247, 419-424.	2.8	129
87	Papaya proteinase IV amino acid sequence. FEBS Letters, 1989, 258, 109-112.	2.8	41