Neil David Rawlings

List of Publications by Citations

88 papers	12,232 citations	43 h-index	99 g-index
99 ext. papers	14,437 ext. citations	9.3 avg, IF	6.6 L-index

#	Paper	IF	Citations
88	InterPro in 2017-beyond protein family and domain annotations. *Nucleic Acids Research*, **2017**, 45, D190-D199	20.1	970
87	InterPro in 2019: improving coverage, classification and access to protein sequence annotations. *Nucleic Acids Research*, **2019**, 47, D351-D360	20.1	835
86	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2012**, 40, D343-50	20.1	686
85	MEROPS: the peptidase database. *Nucleic Acids Research*, **2010**, 38, D227-33	20.1	670
84	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	20.1	643
83	MEROPS: the database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2014**, 42, D503-9	20.1	602
82	Evolutionary families of metallopeptidases. *Methods in Enzymology*, **1995**, 248, 183-228	1.7	601
81	Twenty years of the MEROPS database of proteolytic enzymes, their substrates and inhibitors. *Nucleic Acids Research*, **2016**, 44, D343-50	20.1	489
80	Evolutionary families of peptidase inhibitors. *Biochemical Journal*, **2004**, 378, 705-16	3.8	459
79	MEROPS: the peptidase database. *Nucleic Acids Research*, **2006**, 34, D270-2	20.1	455
78	MEROPS: the peptidase database. *Nucleic Acids Research*, **2008**, 36, D320-5	20.1	453
77	Families of serine peptidases. *Methods in Enzymology*, **1994**, 244, 19-61	1.7	423
76	MEROPS: the peptidase database. *Nucleic Acids Research*, **2004**, 32, D160-4	20.1	325
75	Cloning, isolation, and characterization of mammalian legumain, an asparaginyl endopeptidase. *Journal of Biological Chemistry*, **1997**, 272, 8090-8	5.4	265
74	Families of cysteine peptidases. *Methods in Enzymology*, **1994**, 244, 461-86	1.7	261
73	Evolution of proteins of the cystatin superfamily. *Journal of Molecular Evolution*, **1990**, 30, 60-71	3.1	251
72	Genome of the host-cell transforming parasite Theileria annulata compared with T. parva. *Science*, **2005**, 309, 131-3	33.3	235

71	New mini- zincin structures provide a minimal scaffold for members of this metallopeptidase superfamily. *BMC Bioinformatics*, **2014**, 15, 1	3.6	225
70	Genome sequence of the tsetse fly (Glossina morsitans): vector of African trypanosomiasis. *Science*, **2014**, 344, 380-6	33.3	192
69	MEROPS: the peptidase database. *Nucleic Acids Research*, **1999**, 27, 325-31	20.1	187
68	The CHAP domain: a large family of amidases including GSP amidase and peptidoglycan hydrolases. *Trends in Biochemical Sciences*, **2003**, 28, 234-7	10.3	182
67	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, 361-5	3.8	169
66	MEROPS: the protease database. *Nucleic Acids Research*, **2002**, 30, 343-6	20.1	160
65	Families and clans of serine peptidases. *Archives of Biochemistry and Biophysics*, **1995**, 318, 247-50	4.1	152
64	Evolutionary lines of cysteine peptidases. *Biological Chemistry*, **2001**, 382, 727-33	4.5	145
63	Chromerid genomes reveal the evolutionary path from photosynthetic algae to obligate intracellular parasites. *ELife*, **2015**, 4, e06974	8.9	138
62	A primitive enzyme for a primitive cell: the protease required for excystation of Giardia. *Cell*, **1997**, 89, 437-44	56.2	133
61	iProt-Sub: a comprehensive package for accurately mapping and predicting protease-specific substrates and cleavage sites. *Briefings in Bioinformatics*, **2019**, 20, 638-658	13.4	124
60	Genomic analysis of the causative agents of coccidiosis in domestic chickens. *Genome Research*, **2014**, 24, 1676-85	9.7	121
59	Families of aspartic peptidases, and those of unknown catalytic mechanism. *Methods in Enzymology*, **1995**, 248, 105-20	1.7	114
58	Stem bromelain: amino acid sequence and implications for weak binding of cystatin. *FEBS Letters*, **1989**, 247, 419-24	3.8	108
57	The MEROPS database as a protease information system. *Journal of Structural Biology*, **2001**, 134, 95-102	3.4	106
56	MEROPS: the peptidase database. *Nucleic Acids Research*, **2000**, 28, 323-5	20.1	97
55	Thimet oligopeptidase and oligopeptidase M or neurolysin. *Methods in Enzymology*, **1995**, 248, 529-56	1.7	85
54	Tripeptidyl-peptidase I is apparently the CLN2 protein absent in classical late-infantile neuronal ceroid lipofuscinosis. *BBA - Proteins and Proteomics*, **1999**, 1429, 496-500		74

53	Oligopeptidases, and the emergence of the prolyl oligopeptidase family. *Biological Chemistry Hoppe-Seyler*, **1992**, 373, 353-60		74
52	Asparagine peptide lyases: a seventh catalytic type of proteolytic enzymes. *Journal of Biological Chemistry*, **2011**, 286, 38321-38328	5.4	65
51	Structure of membrane glutamate carboxypeptidase. *BBA - Proteins and Proteomics*, **1997**, 1339, 247-52		64
50	The MEROPS batch BLAST: a tool to detect peptidases and their non-peptidase homologues in a genome. *Biochimie*, **2008**, 90, 243-59	4.6	61
49	The PepSY domain: a regulator of peptidase activity in the microbial environment?. *Trends in Biochemical Sciences*, **2004**, 29, 169-72	10.3	55
48	Peptidase inhibitors in the MEROPS database. *Biochimie*, **2010**, 92, 1463-83	4.6	52
47	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	13.4	48
46	Peptidase specificity from the substrate cleavage collection in the MEROPS database and a tool to measure cleavage site conservation. *Biochimie*, **2016**, 122, 5-30	4.6	43
45	Prokaryote-derived protein inhibitors of peptidases: A sketchy occurrence and mostly unknown function. *Biochimie*, **2010**, 92, 1644-56	4.6	41
44	Papaya proteinase IV amino acid sequence. *FEBS Letters*, **1989**, 258, 109-12	3.8	37
43	Families and clans of cysteine peptidases. *Journal of Computer - Aided Molecular Design*, **1996**, 6, 1-11		35
42	The baculovirus Autographa californica nuclear polyhedrosis virus genome includes a papain-like sequence. *Biological Chemistry Hoppe-Seyler*, **1992**, 373, 1211-5		34
41	Using the MEROPS Database for Proteolytic Enzymes and Their Inhibitors and Substrates. *Current Protocols in Bioinformatics*, **2014**, 48, 1.25.1-33	24.2	33
40	A large and accurate collection of peptidase cleavages in the MEROPS database. *Database: the Journal of Biological Databases and Curation*, **2009**, 2009, bap015	5	33
39	Managing peptidases in the genomic era. *Biological Chemistry*, **2003**, 384, 873-82	4.5	33
38	\SpeciesVof peptidases. *Biological Chemistry*, **2007**, 388, 1151-7	4.5	31
37	Types and families of endopeptidases. *Biochemical Society Transactions*, **1991**, 19, 707-15	5.1	28
36	Pepsin homologues in bacteria. *BMC Genomics*, **2009**, 10, 437	4.5	27

35	Introduction: metallopeptidases and their clans **2004**, 231-267		24
34	Structural analysis of papain-like NlpC/P60 superfamily enzymes with a circularly permuted topology reveals potential lipid binding sites. *PLoS ONE*, **2011**, 6, e22013	3.7	19
33	FLUSYS: a software package for the collection and analysis of kinetic and scanning data from Perkin-Elmer fluorimeters. *Bioinformatics*, **1990**, 6, 118-9	7.2	18
32	Dipeptidyl-peptidase II is related to lysosomal Pro-X carboxypeptidase. *BBA - Proteins and Proteomics*, **1996**, 1298, 1-3		16
31	Structural and sequence analysis of imelysin-like proteins implicated in bacterial iron uptake. *PLoS ONE*, **2011**, 6, e21875	3.7	15
30	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, 945-57	6.6	15
29	Genome properties in 2019: a new companion database to InterPro for the inference of complete functional attributes. *Nucleic Acids Research*, **2019**, 47, D564-D572	20.1	15
28	How to use the MEROPS database and website to help understand peptidase specificity. *Protein Science*, **2021**, 30, 83-92	6.3	14
27	Origins of peptidases. *Biochimie*, **2019**, 166, 4-18	4.6	13
26	A novel RCE1 isoform is required for H-Ras plasma membrane localization and is regulated by USP17. *Biochemical Journal*, **2014**, 457, 289-300	3.8	13
25	Introduction: The Clans and Families of Cysteine Peptidases **2013**, 1743-1773		11
24	Bacterial calpains and the evolution of the calpain (C2) family of peptidases. *Biology Direct*, **2015**, 10, 66	7.2	11
23	Introduction: Metallopeptidases and Their Clans **2013**, 325-370		10
22	Twenty-five years of nomenclature and classification of proteolytic enzymes. *Biochimica Et Biophysica Acta - Proteins and Proteomics*, **2020**, 1868, 140345	4	8
21	LUD, a new protein domain associated with lactate utilization. *BMC Bioinformatics*, **2013**, 14, 341	3.6	6
20	Unusual phyletic distribution of peptidases as a tool for identifying potential drug targets. *Biochemical Journal*, **2007**, 401, e5-7	3.8	6
19	A comparison of Pfam and MEROPS: two databases, one comprehensive, and one specialised. *BMC Bioinformatics*, **2003**, 4, 17	3.6	6
18	Introduction: aspartic peptidases and their clans **2004**, 3-12		6

17	An Introduction to Peptidases and the Merops Database **2007**, 161-179		6
16	Creating a specialist protein resource network: a meeting report for the protein bioinformatics and community resources retreat. *Database: the Journal of Biological Databases and Curation*, **2015**, 2015, bav063	5	5
15	Thimet oligopeptidase: site-directed mutagenesis disproves previous assumptions about the nature of the catalytic site. *FEBS Letters*, **1998**, 435, 16-20	3.8	5
14	Potential metal ligands in the insulinase superfamily of endopeptidases. *Biochemical Society Transactions*, **1991**, 19, 289S	5.1	4
13	Evolution of the thermopsin peptidase family (A5). *PLoS ONE*, **2013**, 8, e78998	3.7	4
12	Using the MEROPS Database for Investigation of Lysosomal Peptidases, Their Inhibitors, and Substrates. *Methods in Molecular Biology*, **2017**, 1594, 213-226	1.4	3
11	The first structure in a family of peptidase inhibitors reveals an unusual Ig-like fold. *F1000Research*, **2013**, 2, 154	3.6	3
10	Peptidases **2014**,		2
9	Identification and prioritization of novel uncharacterized peptidases for biochemical characterization. *Database: the Journal of Biological Databases and Curation*, **2013**, 2013, bat022	5	2
8	The first structure in a family of peptidase inhibitors reveals an unusual Ig-like fold. *F1000Research*, **2013**, 2, 154	3.6	2
7	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	3.6	1
6	Antarease **2013**, 1079-1081		
5	Unusual Species Distribution and Horizontal Transfer of Peptidases **2013**, 285-314		
4	Bacteriophage T4 Prohead Endopeptidase **2013**, 3560-3562		
3	Nonviral Peptidases **2021**, 1152-1169		
2	ADAM15 Peptidase **2013**, 1122-1125		
1	Peptidases2, 86-94		