Richard Isaac

List of Publications by Year
in descending order

67 papers	2,467 citations	186265 28 h-index	206112 48 g-index
69 all docs	69 docs citations	69 times ranked	2476 citing authors

#	Article	IF	Citations
1	The neprilysin (NEP) family of zinc metalloendopeptidases: Genomics and function. BioEssays, 2001, 23, 261-269.	2.5	388
2	Drosophila male sex peptide inhibits siesta sleep and promotes locomotor activity in the post-mated female. Proceedings of the Royal Society B: Biological Sciences, 2010, 277, 65-70.	2.6	206
3	Expression and Functional Characterization of aDrosophila Neuropeptide Precursor with Homology to Mammalian Preprotachykinin A. Journal of Biological Chemistry, 2000, 275, 23273-23280.	3.4	139
4	Cloning and Expression of an Evolutionary Conserved Single-domain Angiotensin Converting Enzyme from Drosophila melanogaster. Journal of Biological Chemistry, 1995, 270, 13613-13619.	3.4	131
5	A Neuronal Pathway that Controls Sperm Ejection and Storage in Female Drosophila. Current Biology, 2015, 25, 790-797.	3.9	83
6	The Drosophila melanogaster-related angiotensin-I-converting enzymes Acer and Ance . Distinct enzymic characteristics and alternative expression during pupal development. FEBS Journal, 1998, 257, 599-606.	0.2	78
7	The endopeptidase activity and the activation by Clâ˜ of angiotensin-converting enzyme is evolutionarily conserved: purification and properties of an an angiotensin-converting enzyme from the housefly, Musca domestica. Biochemical Journal, 1996, 314, 639-646.	3.7	74
8	Proteomic identification of Drosophila melanogaster male accessory gland proteins, including a pro-cathepsin and a soluble gamma-glutamyl transpeptidase. Proteome Science, 2006, 4, 9.	1.7	73
9	Bioinformatic analysis of the neprilysin (M13) family of peptidases reveals complex evolutionary and functional relationships. BMC Evolutionary Biology, 2008, 8, 16.	3.2	71
10	An Essential Role in Molting and Morphogenesis of Caenorhabditis elegans for ACN-1, a Novel Member of the Angiotensin-converting Enzyme Family That Lacks a Metallopeptidase Active Site. Journal of Biological Chemistry, 2003, 278, 52340-52346.	3.4	65
11	Functional Conservation of the Active Sites of Human andDrosophilaAngiotensin I-Converting Enzymeâ€. Biochemistry, 2000, 39, 8963-8969.	2.5	62
12	Purification and characterization of prostaglandin-H E-isomerase, a sigma-class glutathione S-transferase, from Ascaridia galli. Biochemical Journal, 1996, 313, 223-227.	3.7	59
13	The drosophila angiotensin-converting enzyme homologue Ance is required for spermiogenesis. Developmental Biology, 2003, 254, 238-247.	2.0	56
14	Neuropeptidases and the metabolic inactivation of insect neuropeptides. General and Comparative Endocrinology, 2009, 162, 8-17.	1.8	51
15	A novel peptide-processing activity of insect peptidyl-dipeptidase A (angiotensin I-converting enzyme): the hydrolysis of lysyl-arginine and arginyl-arginine from the C-terminus of an insect prohormone peptide. Biochemical Journal, 1998, 330, 61-65.	3.7	49
16	Identification of a proctolin preprohormone gene (Proct) ofDrosophila melanogaster: Expression and predicted prohormone processing. Journal of Neurobiology, 2004, 58, 379-391.	3.6	47
17	Insect Angiotensin-converting Enzyme: A Processing Enzyme with Broad Substrate Specificity and a Role in Reproduction. Annals of the New York Academy of Sciences, 1999, 897, 342-347.	3.8	46
18	Male accessory glands of Drosophila melanogaster make a secreted angiotensin I-converting enzyme (ANCE), suggesting a role for the peptide-processing enzyme in seminal fluid. Journal of Experimental Biology, 2007, 210, 3601-3606.	1.7	42

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19	Proctolin in the post-genomic era: new insights and challenges. Invertebrate Neuroscience, 2004, 5, 51-64.	1.8	39
20	Drosophila melanogaster NEP2 is a new soluble member of the neprilysin family of endopeptidases with implications for reproduction and renal function. Biochemical Journal, 2005, 386, 357-366.	3.7	38
21	The sexual dimorphic behaviour of adult Drosophila suzukii: elevated female locomotor activity and loss of siesta is a post-mating response. Journal of Experimental Biology, 2015, 218, 3855-61.	1.7	38
22	Angiotensin-converting enzyme as a target for the development of novel insect growth regulators. Peptides, 2007, 28, 153-162.	2.4	35
23	Inactivation of a tachykinin-related peptide: identification of four neuropeptide-degrading enzymes in neuronal membranes of insects from four different orders. Peptides, 2002, 23, 725-733.	2.4	33
24	Biostable multi-Aib analogs of tachykinin-related peptides demonstrate potent oral aphicidal activity in the pea aphid Acyrthosiphon pisum (Hemiptera: Aphidae). Peptides, 2011, 32, 587-594.	2.4	33
25	Ance, a Drosophila angiotensin-converting enzyme homologue, is expressed in imaginal cells during metamorphosis and is regulated by the steroid, 20-hydroxyecdysone. Biochemical Journal, 2002, 367, 187-193.	3.7	32
26	Peptidyl dipeptidases (Ance and Acer) of Drosophila melanogaster: major differences in the substrate specificity of two homologs of human angiotensin I-converting enzyme. Peptides, 2002, 23, 2025-2034.	2.4	32
27	Functional expression and characterization of the cytoplasmic aminopeptidase P ofCaenorhabditis elegans. FEBS Journal, 2001, 268, 5430-5438.	0.2	31
28	ACE inhibitors reduce fecundity in the mosquito, Anopheles stephensi. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2003, 134, 593-598.	1.6	29
29	Locomotor and geotactic behavior of Drosophila melanogaster over-expressing neprilysin 2. Peptides, 2009, 30, 571-574.	2.4	27
30	The host-seeking inhibitory peptide, Aea-HP-1, is made in the male accessory gland and transferred to the female during copulation. Peptides, 2012, 34, 150-157.	2.4	27
31	Loss of Angiotensin-converting enzyme-related (ACER) peptidase disrupts night-time sleep in adult Drosophila melanogaster. Journal of Experimental Biology, 2011, 214, 680-686.	1.7	26
32	The angiotensin-converting enzyme (ACE) gene family of Anopheles gambiae. BMC Genomics, 2005, 6, 172.	2.8	25
33	Cleavage of arginyl-arginine and lysyl-arginine from the C-terminus ofpro-hormone peptides by human germinal angiotensin I-converting enzyme (ACE) and the C-domain of human somatic ACE. Biochemical Journal, 1997, 328, 587-591.	3.7	24
34	Metabolic inactivation of the circadian transmitter, pigment dispersing factor (PDF), by neprilysin-like peptidases in Drosophila. Journal of Experimental Biology, 2007, 210, 4465-4470.	1.7	24
35	Genomic and peptidomic analyses of the neuropeptides from the emerging pest, Drosophila suzukii. Peptides, 2015, 68, 33-42.	2.4	23
36	Toward a Role for Angiotensin-Converting Enzyme in Insects. Annals of the New York Academy of Sciences, 1998, 839, 288-292.	3.8	21

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37	Structural diversity of angiotensin-converting enzyme. Insights from structure-activity comparisons of two Drosophila enzymes. FEBS Journal, 2006, 273, 362-373.	4.7	21
38	The PAM-1 aminopeptidase regulates centrosome positioning to ensure anteriorâ€“posterior axis specification in one-cell C. elegans embryos. Developmental Biology, 2010, 344, 992-1000.	2.0	21
39	Extracellular peptidases of imaginal discs of Drosophila melanogaster. Peptides, 2002, 23, 2007-2014.	2.4	19
40	Expression of NEP2, a soluble neprilysin-like endopeptidase, during embryogenesis in Drosophila melanogaster. Peptides, 2007, 28, 127-135.	2.4	18
41	Identification and localization of a neprilysin-like activity that degrades tachykinin-related peptides in the brain of the cockroach, Leucophaea maderae, and locust, Locusta migratoria. Journal of Comparative Neurology, 2003, 457, 57-66.	1.6	17
42	Crystal structure of Xâ€prolyl aminopeptidase fromCaenorhabditis elegans: A cytosolic enzyme with a diâ€nuclear active site. FEBS Open Bio, 2015, 5, 292-302.	2.3	12
43	pH-responsive polymer microcapsules for targeted delivery of biomaterials to the midgut of Drosophila suzukii. PLoS ONE, 2018, 13, e0201294.	2.5	12
44	Peptidergic control in a fruit crop pest: The spotted-wing drosophila, Drosophila suzukii. PLoS ONE, 2017, 12, e0188021.	2.5	9
45	Metabolism of AF1 (KNEFIRF-NH2) in the nematode Ascaris suum. Biochemical Society Transactions, 1994, 22, 293S-293S.	3.4	8
46	Characterisation of putative Drosophila angiotensin converting enzyme cDNA clones. Biochemical Society Transactions, 1993, 21, 243S-243S.	3.4	7
47	Identification of an ACE-like peptidyl dipeptidase activity in the housefly, Musca domestica. Biochemical Society Transactions, 1993, 21, 245S-245S.	3.4	7
48	The degradome and the evolution of Drosophila sex peptide as a ligand for the MIP receptor. Peptides, 2014, 53, 258-264.	2.4	7
49	The toxicity of angiotensin converting enzyme inhibitors to larvae of the disease vectors Aedes aegypti and Anopheles gambiae. Scientific Reports, 2017, 7, 45409.	3.3	7
50	Protection of Double-Stranded RNA via Complexation with Double Hydrophilic Block Copolymers: Influence of Neutral Block Length in Biologically Relevant Environments. Biomacromolecules, 2022, 23, 2362-2373.	5.4	7
51	Hydrolysis by somatic angiotensin-I converting enzyme of basic dipeptides from a cholecystokinin/gastrin and a LH-RH peptide extended at the C-terminus with Gly-Arg/Lys-Arg, but not from diarginyl insulin. FEBS Journal, 1999, 262, 569-574.	0.2	6
52	Crystal structures of angiotensin-converting enzyme from Anopheles gambiae in its native form and with a bound inhibitor. Biochemical Journal, 2019, 476, 3505-3520.	3.7	6
53	The Effect of Mating and the Male Sex Peptide on Group Behaviour of Post-mated Female Drosophila melanogaster. Neurochemical Research, 2019, 44, 1508-1516.	3.3	5
54	Metalloaminopeptidases of the Protozoan Parasite Plasmodium falciparum as Targets for the Discovery of Novel Antimalarial Drugs. Journal of Medicinal Chemistry, 2021, 64, 1763-1785.	6.4	5

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55	Structural basis for the inhibition of human angiotensinâ€1 converting enzyme by fosinoprilat. FEBS Journal, 2022, 289, 6659-6671.	4.7	5
56	Metabolism of insect hypertrehalosemic hormone in Blaberus discoidalis cockroaches. Biochemical Society Transactions, 1993, 21, 244S-244S.	3.4	3
57	The structure of the Drosophila melanogaster sex peptide: Identification of hydroxylated isoleucine and a strain variation in the pattern of amino acid hydroxylation. Insect Biochemistry and Molecular Biology, 2020, 124, 103414.	2.7	3
58	Proline-specific aminopeptidase P prevents replication-associated genome instability. PLoS Genetics, 2022, 18, e1010025.	3.5	2
59	role for myosuppressin. General and Comparative Endocrinology, 2019, 278, 50-57.	1.8	1
60	Battle of the sexes over paternity. BMB Reports, 2015, 48, 241-242.	2.4	1
61	Characterisation of ZK643.3: a putative 7TM neuropeptide receptor. Biochemical Society Transactions, 1997, 25, 440S-440S.	3.4	0
62	Characterisation of a C. elegans neurotransmitter transporter gene. Biochemical Society Transactions, 1997, 25, 552S-552S.	3.4	0
63	The expression of a C. elegans neurotransmitter transporter gene (T25B6.7). Biochemical Society Transactions, 1997, 25, 553S-553S.	3.4	0
64	The neprilysin-like gene family in Drosophila melanogaster. Biochemical Society Transactions, 2000, 28, A81-A81.	3.4	0
65	Probing the biological roles of nucleoside transporters using Caenorhabditis elegans as a model organism. Biochemical Society Transactions, 2000, 28, A93-A93.	3.4	0
66	Mass spectrometric characterisation of the major peptides of the male ejaculatory duct, including a glycopeptide with an unusual zwitterionic glycosylation. Journal of Proteomics, 2021, 246, 104307.	2.4	0
67	2020 Invertebrate Neuropeptide Award Announcement. Peptides, 2022, 151, 170762.	2.4	0