Ronald J Nachman

List of Publications by Year
in descending order

75 papers	1,935 citations	186265 28 h-index	276875 41 g-index
76 all docs	76 docs citations	76 times ranked	886 citing authors

#	Article	IF	Citations
1	Locustatachykinin I and II, two novel insect neuropeptides with homology to peptides of the vertebrate tachykinin family. FEBS Letters, 1990, 261, 397-401.	2.8	215
2	Insect capa neuropeptides impact desiccation and cold tolerance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2882-2887.	7.1	111
3	Disruption of insect diapause using agonists and an antagonist of diapause hormone. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16922-16926.	7.1	84
4	Enhanced in vivo activity of peptidase-resistant analogs of the insect kinin neuropeptide family. Peptides, 2002, 23, 735-745.	2.4	74
5	Leads for insect neuropeptide mimetic development. Archives of Insect Biochemistry and Physiology, 1993, 22, 181-197.	1.5	70
6	cis-peptide bond mimetic tetrazole analogs of the insect kinins identify the active conformation. Peptides, 2002, 23, 709-716.	2.4	63
7	Post-translational modifications of the insect sulfakinins. Sulfation, pyroglutamate-formation and O-methylation of glutamic acid. FEBS Journal, 1999, 263, 552-560.	0.2	56
8	Consensus chemistry and R-turn conformation of the active core of the insect kinin neuropeptide family. Chemistry and Biology, 1997, 4, 105-117.	6.0	54
9	Biostable agonists that match or exceed activity of native insect kinins on recombinant arthropod GPCRs. General and Comparative Endocrinology, 2009, 162, 122-128.	1.8	45
10	Myotropic Insect Neuropeptide Families from the Cockroach Leucophaea maderae. ACS Symposium Series, 1991, , 194-214.	0.5	43
11	Immunocytochemical localisation and biological activity of diuretic peptides in the housefly, Musca domestica. Cell and Tissue Research, 1998, 294, 549-560.	2.9	42
12	Comparison of Active Conformations of the Insectatachykinin/tachykinin and Insect Kinin/Tyr-W-MIF-1 Neuropeptide Family Pairs. Annals of the New York Academy of Sciences, 1999, 897, 388-400.	3.8	42
13	Enhanced oral availability/pheromonotropic activity of peptidase-resistant topical amphiphilic analogs of pyrokinin/PBAN insect neuropeptides. Peptides, 2002, 23, 2035-2043.	2.4	42
14	Leucokinin mimetic elicits aversive behavior in mosquito <i>Aedes aegypti</i> (L.) and inhibits the sugar taste neuron. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 6880-6885.	7.1	41
15	Convenient preparation of 2â€benzoxazolinones with 1,1â€carbonyldiimidazole. Journal of Heterocyclic Chemistry, 1982, 19, 1545-1547.	2.6	40
16	Conformation in solution and dynamics of a structurally constrained linear insect kinin pentapeptide analogue. Biopolymers, 1999, 49, 403-413.	2.4	40
17	Molecular cloning and functional characterization of the diapause hormone receptor in the corn earworm Helicoverpa zea. Peptides, 2014, 53, 243-249.	2.4	38
18	Isolation and immunocytochemical characterization of three tachykinin-related peptides from the mosquito, Culex salinarius. Neurochemical Research, 1998, 23, 189-202.	3.3	37

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19	Mass spectrometric assignment of Leu/Ile in neuropeptides from single neurohemal organ preparations of insects. Peptides, 2005, 26, 2151-2156.	2.4	35
20	A C-terminal aldehyde insect kinin analog enhances inhibition of weight gain and induces significant mortality in Helicoverpa zea larvae. Peptides, 2003, 24, 1615-1621.	2.4	34
21	Conformational aspects and hyperpotent agonists of diapause hormone for termination of pupal diapause in the corn earworm. Peptides, 2009, 30, 596-602.	2.4	34
22	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
23	Sulfakinin is an important regulator of digestive processes in the migratory locust, Locusta migratoria. Insect Biochemistry and Molecular Biology, 2015, 61, 8-16.	2.7	32
24	Synthesis, Biological Activity, and Conformational Studies of Insect Allatostatin Neuropeptide Analogues Incorporating Turn-Promoting Moieties1Dedicated to Professor Stuart Schreiber on the occasion of his award of the Tetrahedron Prize.1. Bioorganic and Medicinal Chemistry, 1998, 6, 1379-1388.	3.0	31
25	An active insect kinin analog with 4-aminopyroglutamate, a novelcis-peptide bond, type VI ?-turn motif. Biopolymers, 2004, 75, 412-419.	2.4	30
26	The molecular characterization of the kinin transcript and the physiological effects of kinins in the blood-gorging insect, Rhodnius prolixus. Peptides, 2014, 53, 148-158.	2.4	30
27	Unusual predominance of even-carbon hydrocarbons in an antarctic food chain. Lipids, 1985, 20, 629-633.	1.7	28
28	Toward the Development of Novel Pest Management Agents Based upon Insect Kinin Neuropeptide Analogues. Annals of the New York Academy of Sciences, 2009, 1163, 251-261.	3.8	28
29	Biostable and PEG polymer-conjugated insect pyrokinin analogs demonstrate antifeedant activity and induce high mortality in the pea aphid Acyrthosiphon pisum (Hemiptera: Aphidae). Peptides, 2012, 34, 266-273.	2.4	25
30	Molecular and pharmacological characterization of the Chelicerata pyrokinin receptor from the southern cattle tick, Rhipicephalus (Boophilus) microplus. Insect Biochemistry and Molecular Biology, 2015, 60, 13-23.	2.7	24
31	An amphiphilic, PK/PBAN analog is a selective pheromonotropic antagonist that penetrates the cuticle of a heliothine insect. Peptides, 2009, 30, 616-621.	2.4	23
32	Activity of native tick kinins and peptidomimetics on the cognate target G proteinâ€coupled receptor from the cattle fever tick, <i>Rhipicephalus microplus</i> (Acari: Ixodidae). Pest Management Science, 2020, 76, 3423-3431.	3.4	23
33	Identification of PVK/CAP2b neuropeptides from single neurohemal organs of the stable fly and horn fly via MALDI-TOF/TOF tandem mass spectrometry. Peptides, 2006, 27, 521-526.	2.4	22
34	Different processing of CAPA and pyrokinin precursors in the giant mealworm beetle Zophobas atratus (Tenebrionidae) and the boll weevil Anthonomus grandis grandis (Curculionidae). General and Comparative Endocrinology, 2018, 258, 53-59.	1.8	19
35	Biostable Î²-amino acid PK/PBAN analogs: Agonist and antagonist properties. Peptides, 2009, 30, 608-615.	2.4	18
36	Insect Myotropic Peptides. ACS Symposium Series, 1991, , 40-50.	0.5	17

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37	Structure-activity relationships for in vitro diuretic activity of CAP2b in the housefly. Peptides, 2007, 28, 57-61.	2.4	17
38	An active pseudopeptide analog of the leucokinin insect neuropeptide family. International Journal of Peptide and Protein Research, 2009, 37, 220-223.	0.1	17
39	Signaling Properties and Pharmacological Analysis of Two Sulfakinin Receptors from the Red Flour Beetle, Tribolium castaneum. PLoS ONE, 2014, 9, e94502.	2.5	16
40	Stimulation of alpha-Amylase Release in the Scallop Pecten maximus by the Myosuppressins: Structure-Activity Relationships. Annals of the New York Academy of Sciences, 1999, 897, 273-281.	3.8	15
41	Aliphatic amino diacid Asu functions as an effective mimic of Tyr(SO3H) in sulfakinins for myotropic and food intake-inhibition activity in insects. Peptides, 2005, 26, 115-120.	2.4	15
42	Comparison of insect kinin analogs withcis-peptide bond motif 4-aminopyroglutamate identifies optimal stereochemistry for diuretic activity. Biopolymers, 2007, 88, 1-7.	2.4	14
43	Effect of sulfate position on rnyotropic activity of the gastrin/CCKâ€like insect leucosulfakinins. International Journal of Peptide and Protein Research, 1989, 33, 223-229.	0.1	14
44	Assessment of insecticidal effects and selectivity of <scp>CAPAâ€PK</scp> peptide analogues against the peachâ€potato aphid and four beneficial insects following topical exposure. Pest Management Science, 2020, 76, 3451-3458.	3.4	14
45	Occurrence of insect kinins in the flesh fly, stable fly and horn flyâ€"mass spectrometric identification from single nerves and diuretic activity. Peptides, 2002, 23, 1885-1894.	2.4	13
46	Evaluation of a PK/PBAN analog with an (E)-alkene, trans-Pro isostere identifies the Pro orientation for activity in four diverse PK/PBAN bioassays. Peptides, 2009, 30, 1254-1259.	2.4	13
47	Assessment of neuropeptide binding sites and the impact of biostable kinin and CAP2b analogue treatment on aphid (<scp><i>Myzus persicae</i></scp> and <i>Macrosiphum rosae</i>) stress tolerance. Pest Management Science, 2019, 75, 1750-1759.	3.4	13
48	Interaction of Mimetic Analogs of Insect Kinin Neuropeptides with Arthropod Receptors. Advances in Experimental Medicine and Biology, 2010, 692, 27-48.	1.6	11
49	Pseudopeptide Mimetic Analogs of Insect Neuropeptides. ACS Symposium Series, 1993, , 210-229.	0.5	10
50	Evaluation of Aib and PEG-polymer insect kinin analogs on mosquito and tick GPCRs identifies potent new pest management tools with potentially enhanced biostability and bioavailability. General and Comparative Endocrinology, 2019, 278, 58-67.	1.8	10
51	Desiccation, thermal stress and associated mortality in Drosophila fruit flies induced by neuropeptide analogue treatment. Journal of Pest Science, 2019, 92, 1123-1137.	3.7	10
52	A bifunctional heterodimeric insect neuropeptide analog. International Journal of Peptide and Protein Research, 1992, 40, 423-428.	0.1	9
53	Potent activity of a PK/PBAN analog with an (E)-alkene, trans-Pro mimic identifies the Pro orientation and core conformation during interaction with HevPBANR-C receptor. Bioorganic and Medicinal Chemistry, 2009, 17, 4216-4220.	3.0	9
54	Peptidergic control in a fruit crop pest: The spotted-wing drosophila, Drosophila suzukii. PLoS ONE, 2017, 12, e0188021.	2.5	9

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55	A C-terminal aldehyde analog of the insect kinins inhibits diuresis in the housefly. Peptides, 2007, 28, 146-152.	2.4	7
56	A novel dihydroimidazoline trans-Pro mimetic analog is a selective PK PBAN agonist. Frontiers in Bioscience - Elite, 2010, E2, 195-203.	1.8	7
57	Active diuretic peptidomimetic insect kinin analogs that contain Î²-turn mimetic motif 4-aminopyroglutamate and lack native peptide bonds. Peptides, 2012, 34, 262-265.	2.4	7
58	Peptidomics applied: A new strategy for development of selective antagonists/agonists of insect pyrokinin (FXPRLamide) family using a novel conformational-mimetic motif. EuPA Open Proteomics, 2014, 3, 138-142.	2.5	7
59	Physiological effects of biostable kinin and CAPA analogs in the Chagas disease vector, Rhodnius prolixus. Insect Biochemistry and Molecular Biology, 2019, 114, 103223.	2.7	7
60	Efficacy and biosafety assessment of neuropeptide CAPA analogues against the peachâ€potato aphid () Tj ETQq0 0 0 rgBT /Overlock 10	3.0	7
61	Transcriptome analysis of neuropeptides in the beneficial insect lacewing (Chrysoperla carnea) identifies kinins as a selective pesticide target: a biostable kinin analogue with activity against the peach potato aphid Myzus persicae. Journal of Pest Science, 2023, 96, 253-264.	3.7	7
62	Conformational analysis of a cyclic AKH neuropeptide analog that elicits selective activity on locust versus honeybee receptor. Insect Biochemistry and Molecular Biology, 2020, 125, 103362.	2.7	6
63	3â€(1â€imidazoyl)â€6â€methoxyâ€2â€benzoxazolinone. A byproduct of the synthesis of 6â€MBOA With 1,1â€²â€carbonyldiimidazole. Journal of Heterocyclic Chemistry, 1985, 22, 279-280.	2.6	5
64	Evaluation of insect CAP2b analogs with either an (E)-alkene, trans- or a (Z)-alkene, cis-Pro isostere identifies the Pro orientation for antidiuretic activity in the stink bug. Peptides, 2013, 41, 101-106.	2.4	5
65	Solid-Phase Synthesis of an Insect Pyrokinin Analog Incorporating an Imidazoline Ring as Isosteric Replacement of a trans Peptide Bond. Molecules, 2021, 26, 3271.	3.8	4
66	Tick CAPA propeptide cDNAs and receptor activity of endogenous tick pyrokinins and analogs: Towards discovering pyrokinin function in ticks. Peptides, 2021, 146, 170665.	2.4	4
67	Presence of anN-6 acetate group shifts the alkylation site of the ambident nucleophile sodium 1-N-methylisoguanide. Journal of Heterocyclic Chemistry, 1985, 22, 953-956.	2.6	3
68	Activity of crustacean myotropic neuropeptides on the oviduct and hindgut of the crayfish<i>Astacus leptodactylus</i>. Invertebrate Reproduction and Development, 2002, 41, 137-142.	0.8	2
69	Introduction: Invertebrate Neuropeptides XIV. Peptides, 2014, 53, 1-2.	2.4	1
70	Invertebrate neuropeptides XVII. Peptides, 2017, 98, 1-2.	2.4	1
71	Introduction. Peptides, 2008, 29, 149-151.	2.4	0
72	Invertebrate neuropeptides IX. Peptides, 2009, 30, 445-448.	2.4	0

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73	Introduction: Invertebrate Neuropeptides XV. Peptides, 2015, 68, 1-2.	2.4	0
74	Introduction. Peptides, 2016, 80, 1-3.	2.4	0
75	2020 Invertebrate Neuropeptide Award Announcement. Peptides, 2022, 151, 170762.	2.4	0