Reinhard Predel

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/2491825/publications.pdf

Version: 2024-02-01

100 papers	6,297 citations	109321 35 h-index	71685 76 g-index
100 all docs	100 docs citations	100 times ranked	5193 citing authors

#	Article	IF	Citations
1	The genome of the model beetle and pest Tribolium castaneum. Nature, 2008, 452, 949-955.	27.8	1,255
2	Functional and Evolutionary Insights from the Genomes of Three Parasitoid Nasonia Species. Science, 2010, 327, 343-348.	12.6	808
3	Genomics, transcriptomics, and peptidomics of neuropeptides and protein hormones in the red flour beetle Tribolium castaneum. Genome Research, 2008, 18, 113-122.	5.5	359
4	Neonatal Insulin Action Impairs Hypothalamic Neurocircuit Formation in Response to Maternal High-Fat Feeding. Cell, 2014, 156, 495-509.	28.9	299
5	A genome-wide inventory of neurohormone GPCRs in the red flour beetle Tribolium castaneum. Frontiers in Neuroendocrinology, 2008, 29, 142-165.	5.2	221
6	Genomics, Transcriptomics, and Peptidomics ofDaphnia pulexNeuropeptides and Protein Hormones. Journal of Proteome Research, 2011, 10, 4478-4504.	3.7	179
7	Peptidomics of CNS-associated neurohemal systems of adultDrosophila melanogaster: A mass spectrometric survey of peptides from individual flies. Journal of Comparative Neurology, 2004, 474, 379-392.	1.6	170
8	Genomics and Peptidomics of Neuropeptides and Protein Hormones Present in the Parasitic Wasp Nasonia vitripennis. Journal of Proteome Research, 2010, 9, 5296-5310.	3.7	167
9	Energy Homeostasis Control in Drosophila Adipokinetic Hormone Mutants. Genetics, 2015, 201, 665-683.	2.9	158
10	Neuropeptidomics of the Mosquito Aedes aegypti. Journal of Proteome Research, 2010, 9, 2006-2015.	3.7	141
11	The Drosophila hugin gene codes for myostimulatory and ecdysis-modifying neuropeptides. Mechanisms of Development, 2002, 117, 5-13.	1.7	112
12	Myoinhibitory neuropeptides in the American cockroachâ˜†. Peptides, 2001, 22, 199-208.	2.4	106
13	Direct mass spectrometric peptide profiling and fragmentation of larval peptide hormone release sites inDrosophila melanogasterreveals tagma-specific peptide expression and differential processing. Journal of Neurochemistry, 2006, 96, 1362-1374.	3.9	104
14	Neuronal expression of tachykinin-related peptides and gene transcript during postembryonic development ofDrosophila. Journal of Comparative Neurology, 2003, 464, 180-196.	1.6	74
15	Corazonin in insects. Peptides, 2007, 28, 3-10.	2.4	66
16	Evolution of neuropeptides in non-pterygote hexapods. BMC Evolutionary Biology, 2016, 16, 51.	3.2	63
17	Periviscerokinin (Pea-PVK): A novel myotropic neuropeptide from the perisympathetic organs of the American cockroach. Peptides, 1995, 16, 61-66.	2.4	57
18	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

#	Article	IF	Citations
19	Myostimulatory neuropeptides in cockroaches: structures, distribution, pharmacological activities, and mimetic analogs. Journal of Insect Physiology, 2001, 47, 311-324.	2.0	55
20	Single-Cell Peptidomics ofDrosophila melanogasterNeurons Identified by Gal4-Driven Fluorescence. Analytical Chemistry, 2007, 79, 3690-3694.	6.5	52
21	Mass spectrometric analysis of single identified neurons of an insect. Biochemical and Biophysical Research Communications, 2005, 327, 640-645.	2.1	51
22	The periviscerokinin (PVK) peptide family in insects: evidence for the inclusion of CAP2b as a PVK family member. Peptides, 2002, 23, 605-611.	2.4	48
23	Tagma-specific distribution of FXPRLamides in the nervous system of the American cockroach. , 2000, 419, 352-363.		47
24	Tachykinin-related peptide precursors in two cockroach species. FEBS Journal, 2005, 272, 3365-3375.	4.7	45
25	Toward a singleâ€cellâ€based analysis of neuropeptide expression in Periplaneta americana antennal lobe neurons. Journal of Comparative Neurology, 2012, 520, 694-716.	1.6	45
26	Identification of novel periviscerokinins from single neurohaemal release sites in insects. FEBS Journal, 2000, 267, 3869-3873.	0.2	44
27	Neuropeptides in the antennal lobe of the yellow fever mosquito, Aedes aegypti. Journal of Comparative Neurology, 2014, 522, 592-608.	1.6	44
28	Isolation of Periviscerokinin-2 from the Abdominal Perisympathetic Organs of the American Cockroach, Periplaneta americana. Peptides, 1998, 19, 801-809.	2.4	43
29	Identification of tick periviscerokinin, the first neurohormone of Ixodidae: Single cell analysis by means of MALDI-TOF/TOF mass spectrometry. Biochemical and Biophysical Research Communications, 2005, 338, 1860-1864.	2.1	43
30	Comparative peptidomics of four related hemipteran species: Pyrokinins, myosuppressin, corazonin, adipokinetic hormone, sNPF, and periviscerokinins. Peptides, 2008, 29, 162-167.	2.4	43
31	Efficacy of native FXPRLamides (pyrokinins) and synthetic analogs on visceral muscles of the American cockroach. Journal of Insect Physiology, 2001, 47, 287-293.	2.0	41
32	Peptidomics-Based Phylogeny and Biogeography of Mantophasmatodea (Hexapoda). Systematic Biology, 2012, 61, 609-629.	5.6	41
33	Transcriptomic and Neuropeptidomic Analysis of the Stick Insect, Carausius morosus. Journal of Proteome Research, 2018, 17, 2192-2204.	3.7	40
34	Coordinated RNA-Seq and peptidomics identify neuropeptides and G-protein coupled receptors (GPCRs) in the large pine weevil Hylobius abietis, a major forestry pest. Insect Biochemistry and Molecular Biology, 2018, 101, 94-107.	2.7	39
35	Identical cellular distribution of all abundant neuropeptides in the major abdominal neurohemal system of an insect (Periplaneta Americana). Journal of Comparative Neurology, 2002, 452, 264-275.	1.6	38
36	Myoinhibitory peptides in the brain of the cockroach Leucophaea maderae and colocalization with pigmentâ€dispersing factor in circadian pacemaker cells. Journal of Comparative Neurology, 2012, 520, 1078-1097.	1.6	36

#	Article	IF	Citations
37	Isolation and Structural Elucidation of Two Pyrokinins From the Retrocerebral Complex of the American Cockroach. Peptides, 1997, 18, 473-478.	2.4	35
38	Mass spectrometric assignment of Leu/Ile in neuropeptides from single neurohemal organ preparations of insects. Peptides, 2005, 26, 2151-2156.	2.4	35
39	Peptidomics of identified neurons demonstrates a highly differentiated expression pattern of FXPRLamides in the neuroendocrine system of an insect. Journal of Comparative Neurology, 2007, 500, 498-512.	1.6	35
40	Neuropeptidomics of the Bed BugCimex lectularius. Journal of Proteome Research, 2018, 17, 440-454.	3.7	35
41	Social behavior and the evolution of neuropeptide genes: lessons from the honeybee genome. BioEssays, 2007, 29, 416-421.	2.5	34
42	Identification of the abundant neuropeptide from abdominal perisympathetic organs of locusts. Peptides, 2002, 23, 621-627.	2.4	33
43	Isolation and structural elucidation of eight kinins from the retrocerebral complex of the American cockroach, Periplaneta americana. Regulatory Peptides, 1997, 71, 199-205.	1.9	31
44	Structure and function of the arolium of Mantophasmatodea (Insecta). Journal of Morphology, 2009, 270, 1247-1261.	1.2	31
45	Allatostatins from the retrocerebral complex and antennal pulsatile organ of the American cockroach: structural elucidation aided by matrix-assisted laser desorption/ionizationâ€“time-of-flight mass spectrometry. Regulatory Peptides, 1999, 82, 81-89.	1.9	30
46	Agatoxin-like peptides in the neuroendocrine system of the honey bee and other insects. Journal of Proteomics, 2016, 132, 77-84.	2.4	30
47	Mass spectrometric analysis of putative capa-gene products in Musca domestica and Neobellieria bullata. Peptides, 2003, 24, 1487-1491.	2.4	28
48	Identification and distribution of SIFamide in the nervous system of the desert locust Schistocerca gregaria. Journal of Comparative Neurology, 2015, 523, 108-125.	1.6	28
49	Pigment-dispersing hormone in Daphnia interneurons, one type homologous to insect clock neurons displaying circadian rhythmicity. Cellular and Molecular Life Sciences, 2011, 68, 3403-3423.	5.4	27
50	Neuropeptides in perisympathetic organs of Manduca sexta: specific composition and changes during the development. Peptides, 2003, 24, 1457-1464.	2.4	26
51	Peptidomics of neurohemal organs from species of the cockroach family Blattidae: how do neuropeptides of closely related species differ?. Peptides, 2005, 26, 3-9.	2.4	26
52	Direct peptide profiling of lateral cell groups of the antennal lobes ofManduca sextareveals specific composition and changes in neuropeptide expression during development. Developmental Neurobiology, 2007, 67, 764-777.	3.0	25
53	Examination of the role of FMRFamide-related peptides in the circadian clock of the cockroach Leucophaea maderae. Cell and Tissue Research, 2008, 332, 257-269.	2.9	24
54	Extended FMRFamides in dipteran insects: Conservative expression in the neuroendocrine system is accompanied by rapid sequence evolution. General and Comparative Endocrinology, 2009, 162, 52-58.	1.8	24

#	Article	IF	Citations
55	The Unique Neuropeptide Pattern in Abdominal Perisympathetic Organs of Insects. Annals of the New York Academy of Sciences, 1999, 897, 282-290.	3.8	23
56	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
57	Differential sorting and packaging of capa-gene related products in an insect. Journal of Comparative Neurology, 2005, 481, 84-95.	1.6	21
58	Identification of the first neuropeptides from the CNS of Hemiptera: CAPA peptides of the southern green stinkbug Nezara viridula (L.). Peptides, 2006, 27, 2670-2677.	2.4	21
59	Neuropeptidomics of the Australian sheep blowfly Lucilia cuprina (Wiedemann) and related Diptera. Peptides, 2013, 41, 31-37.	2.4	21
60	Transcriptomic, peptidomic, and mass spectrometry imaging analysis of the brain in the ant Cataglyphis nodus. Journal of Neurochemistry, 2021, 158, 391-412.	3.9	21
61	The neuropeptidome of Carabus (Coleoptera, Adephaga: Carabidae). Insect Biochemistry and Molecular Biology, 2020, 118, 103309.	2.7	20
62	Conservation of the function counts: homologous neurons express sequenceâ€related neuropeptides that originate from different genes. Journal of Neurochemistry, 2009, 111, 757-765.	3.9	19
63	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
64	Neuropeptide Mapping of Dimmed Cells of Adult Drosophila Brain. Journal of the American Society for Mass Spectrometry, 2018, 29, 890-902.	2.8	18
65	Two capa-genes are expressed in the neuroendocrine system of Rhodnius prolixus. Peptides, 2010, 31, 408-411.	2.4	17
66	The neuropeptide SIFamide in the brain of three cockroach species. Journal of Comparative Neurology, 2016, 524, 1337-1360.	1.6	17
67	Enhanced Coverage of Insect Neuropeptides in Tissue Sections by an Optimized Mass-Spectrometry-Imaging Protocol. Analytical Chemistry, 2019, 91, 1980-1988.	6.5	17
68	Neuropeptides in Heteroptera: Identification of allatotropin-related peptide and tachykinin-related peptides using MALDI-TOF mass spectrometry. Peptides, 2009, 30, 483-488.	2.4	16
69	Identification of mature peptides from pban and capa genes of the moths Heliothis peltigera and Spodoptera littoralis. Peptides, 2017, 94, 1-9.	2.4	15
70	Antimicrobial, Insecticidal and Cytotoxic Activity of Linear Venom Peptides from the Pseudoscorpion Chelifer cancroides. Toxins, 2022, 14, 58.	3.4	15
71	Allatotropin-related peptide in cockroaches: Identification via mass spectrometric analysis of single identified neurons. Peptides, 2009, 30, 489-494.	2.4	14
72	Past climatic changes and their effects on the phylogenetic pattern of the Gondwanan relict Maindronia (Insecta: Zygentoma) in the Chilean Atacama Desert. Global and Planetary Change, 2019, 182, 103007.	3.5	14

#	Article	IF	Citations
73	Venom collection and analysis in the pseudoscorpion Chelifer cancroides (Pseudoscorpiones:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.6	14
74	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
75	Identification of two capa cDNA transcripts and detailed peptidomic characterization of their peptide products in Periplaneta americana. EuPA Open Proteomics, 2014, 3, 195-205.	2.5	13
76	Trancriptomic approach reveals the molecular diversity of Hottentotta conspersus (Buthidae) venom. Toxicon, 2015, 99, 73-79.	1.6	13
77	Analysis of Single Neurons by Perforated Patch Clamp Recordings and MALDI-TOF Mass Spectrometry. ACS Chemical Neuroscience, 2018, 9, 2089-2096.	3.5	13
78	Direct Peptide Profiling of Brain Tissue by MALDI-TOF Mass Spectrometry. Methods in Molecular Biology, 2010, 615, 129-135.	0.9	13
79	<scp>N</scp>europeptidergic input pathways to the circadian pacemaker center of the <scp>M</scp>adeira cockroach analysed with an improved injection technique. European Journal of Neuroscience, 2013, 38, 2842-2852.	2.6	12
80	Partial transcriptomic profiling of toxins from the venom gland of the scorpion Parabuthus stridulus. Toxicon, 2014, 83, 75-83.	1.6	12
81	The power of neuropeptide precursor sequences to reveal phylogenetic relationships in insects: A case study on Blattodea. Molecular Phylogenetics and Evolution, 2020, 143, 106686.	2.7	12
82	CAPA-peptides of praying mantids (Mantodea). Peptides, 2010, 31, 377-383.	2.4	11
83	Evolution of Neuropeptide Precursors in Polyneoptera (Insecta). Frontiers in Endocrinology, 2020, 11, 197.	3.5	11
84	Localization of leucomyosuppressin in the brain and circadian clock of the cockroach Leucophaea maderae. Cell and Tissue Research, 2007, 328, 443-452.	2.9	10
85	Identification and Expression of Capa Gene in the Fire Ant, Solenopsis invicta. PLoS ONE, 2014, 9, e94274.	2.5	10
86	A simple protocol for venom peptide barcoding in scorpions. EuPA Open Proteomics, 2014, 3, 239-245.	2.5	10
87	Schistocerca neuropeptides â€“ An update. Journal of Insect Physiology, 2022, 136, 104326.	2.0	10
88	Identification and distribution of products from novel tryptopyrokinin genes in the locust, Locusta migratoria. Biochemical and Biophysical Research Communications, 2017, 486, 70-75.	2.1	9
89	Intraspecific venom variation in southern African scorpion species of the genera Parabuthus, Uroplectes and Opistophthalmus (Scorpiones: Buthidae, Scorpionidae). Toxicon, 2018, 144, 83-90.	1.6	9
90	The colonization of the Puna and Atacama Biogeographic Province by sister clades of Psectrascelis (Coleoptera: Tenebrionidae): Synchronous expansion without spatial overlap. Journal of Biogeography, 2021, 48, 1930-1940.	3.0	8

#	Article	IF	Citations
91	Mass spectrometric identification, sequence evolution, and intraspecific variability of dimeric peptides encoded by cockroach akh genes. Analytical and Bioanalytical Chemistry, 2015, 407, 1685-1693.	3.7	6
92	A discrete neuropeptide difference between two hybridizing grasshopper subspecies. Biological Journal of the Linnean Society, 0, 91, 541-548.	1.6	5
93	Neuropeptides of the cotton fleahopper, Pseudatomoscelis seriatus (Reuter). Peptides, 2012, 34, 39-43.	2.4	5
94	CAPA-gene products in the haematophagous sandfly Phlebotomus papatasi (Scopoli) â€“ vector for leishmaniasis disease. Peptides, 2013, 41, 2-7.	2.4	5
95	Expression pattern of CAPA/pyrokinin neuropeptide genes in Remipedia and silverfish: Rapid differentiation after gene duplication in early Hexapoda, followed by strong conservation of newly established features in insects. Peptides, 2021, 144, 170610.	2.4	5
96	PaOctÎ²2R: Identification and Functional Characterization of an Octopamine Receptor Activating Adenylyl Cyclase Activity in the American Cockroach Periplaneta americana. International Journal of Molecular Sciences, 2022, 23, 1677.	4.1	4
97	Neuromodulation Can Be Simple: Myoinhibitory Peptide, Contained in Dedicated Regulatory Pathways, Is the Only Neurally-Mediated Peptide Modulator of Stick Insect Leg Muscle. Journal of Neuroscience, 2021, 41, 2911-2929.	3.6	3
98	Serine phosphorylation of CAPA pyrokinin in cockroachesâ€”A taxon-specific posttranslational modification. Peptides, 2014, 57, 52-58.	2.4	2
99	A Pseudoscorpion's Promising Pinch: The venom of Chelifer cancroides contains a rich source of novel compounds. Toxicon, 2021, 201, 92-104.	1.6	2
100	Phylogenetic re-evaluation of Discopleurus (Coleoptera: Tenebrionidae: Pimeliinae) and the description of a new species from the hyperarid Atacama Desert. Zoologischer Anzeiger, 2021, 290, 71-78.	0.9	0