

Baldomero M Olivera

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#	Paper	IF	Citations
248	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. <i>Natural Product Reports</i> , 2013 , 30, 108-60	15.1	1298
247	Conus venoms: a rich source of novel ion channel-targeted peptides. <i>Physiological Reviews</i> , 2004 , 84, 41-68	47.9	784
246	Calcium channel diversity and neurotransmitter release: the omega-conotoxins and omega-agatoxins. <i>Annual Review of Biochemistry</i> , 1994 , 63, 823-67	29.1	679
245	A new Conus peptide ligand for mammalian presynaptic Ca ²⁺ channels. <i>Neuron</i> , 1992 , 9, 69-77	13.9	453
244	A new alpha-conotoxin which targets alpha3beta2 nicotinic acetylcholine receptors. <i>Journal of Biological Chemistry</i> , 1996 , 271, 7522-8	5.4	426
243	Purification and sequence of a presynaptic peptide toxin from <i>Conus geographus</i> venom. <i>Biochemistry</i> , 1984 , 23, 5087-90	3.2	399
242	Neuronal calcium channel antagonists. Discrimination between calcium channel subtypes using omega-conotoxin from <i>Conus magus</i> venom. <i>Biochemistry</i> , 1987 , 26, 2086-90	3.2	310
241	E.E. Just Lecture, 1996. Conus venom peptides, receptor and ion channel targets, and drug design: 50 million years of neuropharmacology. <i>Molecular Biology of the Cell</i> , 1997 , 8, 2101-9	3.5	284
240	Conus peptides targeted to specific nicotinic acetylcholine receptor subtypes. <i>Annual Review of Biochemistry</i> , 1999 , 68, 59-88	29.1	265
239	Conus peptides: biodiversity-based discovery and exogenomics. <i>Journal of Biological Chemistry</i> , 2006 , 281, 31173-7	5.4	257
238	Strategy for rapid immobilization of prey by a fish-hunting marine snail. <i>Nature</i> , 1996 , 381, 148-51	50.4	247
237	Conotoxins, in retrospect. <i>Toxicon</i> , 2001 , 39, 7-14	2.8	210
236	Molecular mechanism for analgesia involving specific antagonism of alpha9alpha10 nicotinic acetylcholine receptors. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006 , 103, 17880-4	11.5	198
235	Conus venoms - a rich source of peptide-based therapeutics. <i>Current Pharmaceutical Design</i> , 2008 , 14, 2462-79	3.3	176
234	Diversity of the neurotoxic Conus peptides: a model for concerted pharmacological discovery. <i>Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics</i> , 2007 , 7, 251-60		159
233	ConusVenom Peptides: Reflections from the Biology of Clades and Species. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 2002 , 33, 25-47		151
232	Speciation of cone snails and interspecific hyperdivergence of their venom peptides. Potential evolutionary significance of introns. <i>Annals of the New York Academy of Sciences</i> , 1999 , 870, 223-37	6.5	149

231	Contulakin-G, an O-glycosylated invertebrate neurotensin. <i>Journal of Biological Chemistry</i> , 1999 , 274, 13752-9	5.4	146
230	Characterization of the omega-conotoxin target. Evidence for tissue-specific heterogeneity in calcium channel types. <i>Biochemistry</i> , 1987 , 26, 820-4	3.2	143
229	Venomous cone snails: molecular phylogeny and the generation of toxin diversity. <i>Toxicon</i> , 2001 , 39, 1899-916	2.8	142
228	mu-Conotoxin PIIIA, a new peptide for discriminating among tetrodotoxin-sensitive Na channel subtypes. <i>Journal of Neuroscience</i> , 1998 , 18, 4473-81	6.6	142
227	Conotoxins down under. <i>Toxicon</i> , 2006 , 48, 780-98	2.8	141
226	Alpha-RgIA: a novel conotoxin that specifically and potently blocks the alpha9alpha10 nAChR. <i>Biochemistry</i> , 2006 , 45, 1511-7	3.2	130
225	A new family of conotoxins that blocks voltage-gated sodium channels. <i>Journal of Biological Chemistry</i> , 1995 , 270, 16796-802	5.4	121
224	kappa-Conotoxin PVIIA is a peptide inhibiting the shaker K ⁺ channel. <i>Journal of Biological Chemistry</i> , 1998 , 273, 33-8	5.4	117
223	From foe to friend: using animal toxins to investigate ion channel function. <i>Journal of Molecular Biology</i> , 2015 , 427, 158-175	6.5	114
222	Structure/function characterization of micro-conotoxin KIIIA, an analgesic, nearly irreversible blocker of mammalian neuronal sodium channels. <i>Journal of Biological Chemistry</i> , 2007 , 282, 30699-706	5.4	114
221	Bromocontryphan: post-translational bromination of tryptophan. <i>Biochemistry</i> , 1997 , 36, 989-94	3.2	109
220	Post-translationally modified neuropeptides from <i>Conus</i> venoms. <i>FEBS Journal</i> , 1999 , 264, 271-5		109
219	The T-superfamily of conotoxins. <i>Journal of Biological Chemistry</i> , 1999 , 274, 30664-71	5.4	108
218	A new family of <i>Conus</i> peptides targeted to the nicotinic acetylcholine receptor. <i>Journal of Biological Chemistry</i> , 1995 , 270, 22361-7	5.4	108
217	The A-superfamily of conotoxins: structural and functional divergence. <i>Journal of Biological Chemistry</i> , 2004 , 279, 17596-606	5.4	107
216	Conotoxins that differentially block sodium channels NaV1.1 through 1.8 identify those responsible for action potentials in sciatic nerve. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 10302-7	11.5	106
215	Phylogenetic specificity of cholinergic ligands: alpha-conotoxin SI. <i>Biochemistry</i> , 1988 , 27, 7102-5	3.2	104
214	alpha-Conotoxin EI, a new nicotinic acetylcholine receptor antagonist with novel selectivity. <i>Biochemistry</i> , 1995 , 34, 14519-26	3.2	102

213	A molluscivorous Conus toxin: conserved frameworks in conotoxins. <i>Biochemistry</i> , 1989 , 28, 358-61	3.2	102
212	Inactivation of a serotonin-gated ion channel by a polypeptide toxin from marine snails. <i>Science</i> , 1998 , 281, 575-8	33.3	101
211	Magnitude and significance of NAD turnover in human cell line D98/AH2. <i>Nature</i> , 1976 , 259, 695-6	50.4	100
210	Specialized insulin is used for chemical warfare by fish-hunting cone snails. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 1743-8	11.5	97
209	Characterization of the Conus bullatus genome and its venom-duct transcriptome. <i>BMC Genomics</i> , 2011 , 12, 60	4.5	97
208	Delta-conotoxin GmVIA, a novel peptide from the venom of Conus gloriamaris. <i>Biochemistry</i> , 1994 , 33, 11420-5	3.2	95
207	A novel post-translational modification involving bromination of tryptophan. Identification of the residue, L-6-bromotryptophan, in peptides from Conus imperialis and Conus radiatus venom. <i>Journal of Biological Chemistry</i> , 1997 , 272, 4689-98	5.4	89
206	Alpha-RgIA, a novel conotoxin that blocks the alpha9alpha10 nAChR: structure and identification of key receptor-binding residues. <i>Journal of Molecular Biology</i> , 2008 , 377, 1216-27	6.5	88
205	Novel excitatory Conus peptides define a new conotoxin superfamily. <i>Journal of Neurochemistry</i> , 2003 , 85, 610-21	6	88
204	Synthetic muO-conotoxin MrVIB blocks TTX-resistant sodium channel NaV1.8 and has a long-lasting analgesic activity. <i>Biochemistry</i> , 2006 , 45, 7404-14	3.2	87
203	Combinatorial peptide libraries in drug design: lessons from venomous cone snails. <i>Trends in Biotechnology</i> , 1995 , 13, 422-6	15.1	87
202	Purification, characterization, synthesis, and cloning of the lockjaw peptide from Conus purpurascens venom. <i>Biochemistry</i> , 1995 , 34, 4913-8	3.2	86
201	gamma -Glutamyl carboxylation: An extracellular posttranslational modification that antedates the divergence of molluscs, arthropods, and chordates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 1264-9	11.5	85
200	Molecular interaction of delta-conotoxins with voltage-gated sodium channels. <i>FEBS Letters</i> , 2005 , 579, 3881-4	3.8	84
199	Conantokin-G: a novel peptide antagonist to the N-methyl-D-aspartic acid (NMDA) receptor. <i>Neuroscience Letters</i> , 1990 , 118, 241-4	3.3	84
198	Definition of the M-conotoxin superfamily: characterization of novel peptides from molluscivorous Conus venoms. <i>Biochemistry</i> , 2005 , 44, 8176-86	3.2	83
197	Conodipine-M, a novel phospholipase A2 isolated from the venom of the marine snail Conus magus. <i>Journal of Biological Chemistry</i> , 1995 , 270, 3518-26	5.4	83
196	Isolation and characterization of a novel conus peptide with apparent antinociceptive activity. <i>Journal of Biological Chemistry</i> , 2000 , 275, 32391-7	5.4	82

195	Alpha-conotoxins Iml and ImII. Similar alpha 7 nicotinic receptor antagonists act at different sites. <i>Journal of Biological Chemistry</i> , 2003 , 278, 757-64	5.4	81
194	A noncompetitive peptide inhibitor of the nicotinic acetylcholine receptor from <i>Conus purpurascens</i> venom. <i>Biochemistry</i> , 1997 , 36, 9581-7	3.2	80
193	Post-translational amino acid isomerization: a functionally important D-amino acid in an excitatory peptide. <i>Journal of Biological Chemistry</i> , 2005 , 280, 4247-53	5.4	80
192	Omega <i>Conus geographus</i> toxin: a peptide that blocks calcium channels. <i>FEBS Letters</i> , 1987 , 214, 295-300	3.8	79
191	Conkunitzin-S1 is the first member of a new Kunitz-type neurotoxin family. Structural and functional characterization. <i>Journal of Biological Chemistry</i> , 2005 , 280, 23766-70	5.4	78
190	mu-conotoxin GIIIA, a peptide ligand for muscle sodium channels: chemical synthesis, radiolabeling, and receptor characterization. <i>Biochemistry</i> , 1989 , 28, 3437-42	3.2	78
189	Folding of conotoxins: formation of the native disulfide bridges during chemical synthesis and biosynthesis of <i>Conus</i> peptides. <i>Antioxidants and Redox Signaling</i> , 2008 , 10, 141-55	8.4	77
188	Mu-conotoxin SmIIIA, a potent inhibitor of tetrodotoxin-resistant sodium channels in amphibian sympathetic and sensory neurons. <i>Biochemistry</i> , 2002 , 41, 15388-93	3.2	77
187	A novel conotoxin inhibitor of Kv1.6 channel and nAChR subtypes defines a new superfamily of conotoxins. <i>Biochemistry</i> , 2006 , 45, 8331-40	3.2	76
186	Elucidation of the molecular envenomation strategy of the cone snail <i>Conus geographus</i> through transcriptome sequencing of its venom duct. <i>BMC Genomics</i> , 2012 , 13, 284	4.5	74
185	Integrated oxidative folding of cysteine/selenocysteine containing peptides: improving chemical synthesis of conotoxins. <i>Angewandte Chemie - International Edition</i> , 2009 , 48, 2221-4	16.4	74
184	Efficient oxidative folding of conotoxins and the radiation of venomous cone snails. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2003 , 100 Suppl 2, 14562-8	11.5	73
183	Transient generation of displaced single-stranded DNA during nick translation. <i>Cell</i> , 1982 , 31, 53-60	56.2	72
182	Structure and sodium channel activity of an excitatory I1-superfamily conotoxin. <i>Biochemistry</i> , 2007 , 46, 9929-40	3.2	70
181	Replication of <i>Escherichia coli</i> requires DNA polymerase I. <i>Nature</i> , 1974 , 250, 513-4	50.4	70
180	Delta-conotoxin structure/function through a cladistic analysis. <i>Biochemistry</i> , 2001 , 40, 13201-8	3.2	67
179	Purification and properties of a myotoxin from <i>Conus geographus</i> venom. <i>Archives of Biochemistry and Biophysics</i> , 1978 , 190, 539-48	4.1	67
178	Conantokin-G precursor and its role in gamma-carboxylation by a vitamin K-dependent carboxylase from a <i>Conus</i> snail. <i>Journal of Biological Chemistry</i> , 1998 , 273, 5447-50	5.4	66

177	The spasmodic peptide defines a new conotoxin superfamily. <i>Biochemistry</i> , 2000 , 39, 1583-8	3.2	65
176	A new Conus peptide ligand for Ca channel subtypes. <i>Neuropharmacology</i> , 1993 , 32, 1141-9	5.5	63
175	Conotoxins containing nonnatural backbone spacers: cladistic-based design, chemical synthesis, and improved analgesic activity. <i>Chemistry and Biology</i> , 2007 , 14, 399-407		62
174	Pain therapeutics from cone snail venoms: From Ziconotide to novel non-opioid pathways. <i>Journal of Proteomics</i> , 2019 , 190, 12-20	3.9	61
173	Characterization of D-amino-acid-containing excitatory conotoxins and redefinition of the I-conotoxin superfamily. <i>FEBS Journal</i> , 2005 , 272, 4178-88	5.7	61
172	Pyridine Nucleotide Metabolism in Escherichia coli. <i>Journal of Biological Chemistry</i> , 1971 , 246, 1107-1116	5.4	61
171	Subtype-selective conopeptides targeted to nicotinic receptors: Concerted discovery and biomedical applications. <i>Channels</i> , 2008 , 2, 143-52	3	58
170	Site-specific effects of diselenide bridges on the oxidative folding of a cystine knot peptide, omega-selenoconotoxin GVIA. <i>Biochemistry</i> , 2010 , 49, 2741-52	3.2	57
169	A novel Conus snail polypeptide causes excitotoxicity by blocking desensitization of AMPA receptors. <i>Current Biology</i> , 2009 , 19, 900-8	6.3	57
168	Distinct disulfide isomers of Conotoxins KIIIA and KIIIB block voltage-gated sodium channels. <i>Biochemistry</i> , 2012 , 51, 9826-35	3.2	54
167	Novel venom peptides from the cone snail <i>Conus pulicarius</i> discovered through next-generation sequencing of its venom duct transcriptome. <i>Marine Genomics</i> , 2012 , 5, 43-51	1.9	53
166	muO conotoxins inhibit NaV channels by interfering with their voltage sensors in domain-2. <i>Channels</i> , 2007 , 1, 253-62	3	53
165	Evolution of Conus peptide toxins: analysis of <i>Conus californicus</i> Reeve, 1844. <i>Molecular Phylogenetics and Evolution</i> , 2010 , 56, 1-12	4.1	51
164	Specificity, affinity and efficacy of iota-conotoxin RXIA, an agonist of voltage-gated sodium channels Na(V)1.2, 1.6 and 1.7. <i>Biochemical Pharmacology</i> , 2008 , 75, 2334-44	6	51
163	Prey-Capture Strategies of Fish-Hunting Cone Snails: Behavior, Neurobiology and Evolution. <i>Brain, Behavior and Evolution</i> , 2015 , 86, 58-74	1.5	50
162	Characterization of two neuronal subclasses through constellation pharmacology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 12758-63	11.5	50
161	Re-evaluation of the P/Q Ca ²⁺ channel components of Ba ²⁺ currents in bovine chromaffin cells superfused with solutions containing low and high Ba ²⁺ concentrations. <i>Pflugers Archiv European Journal of Physiology</i> , 1996 , 432, 1030-8	4.6	50
160	Evolution of Conus peptide genes: duplication and positive selection in the A-superfamily. <i>Journal of Molecular Evolution</i> , 2010 , 70, 190-202	3.1	49

159	AlphaC-conotoxin PrXA: a new family of nicotinic acetylcholine receptor antagonists. <i>Biochemistry</i> , 2007 , 46, 8717-24	3.2	49
158	Propeptide does not act as an intramolecular chaperone but facilitates protein disulfide isomerase-assisted folding of a conotoxin precursor. <i>Biochemistry</i> , 2004 , 43, 1093-101	3.2	49
157	A minimized human insulin-receptor-binding motif revealed in a <i>Conus geographus</i> venom insulin. <i>Nature Structural and Molecular Biology</i> , 2016 , 23, 916-920	17.6	48
156	Turnover at nicotinamide adenine dinucleotide in cultures of human cells. <i>Journal of Cellular Physiology</i> , 1976 , 88, 207-17	7	48
155	Pruning nature: Biodiversity-derived discovery of novel sodium channel blocking conotoxins from <i>Conus bullatus</i> . <i>Toxicon</i> , 2009 , 53, 90-8	2.8	47
154	NMR-based mapping of disulfide bridges in cysteine-rich peptides: application to the mu-conotoxin SxIIIa. <i>Journal of the American Chemical Society</i> , 2008 , 130, 14280-6	16.4	47
153	Structural basis for tetrodotoxin-resistant sodium channel binding by mu-conotoxin SmIIIa. <i>Journal of Biological Chemistry</i> , 2003 , 278, 46805-13	5.4	47
152	Oxidative folding of conotoxins sharing an identical disulfide bridging framework. <i>FEBS Journal</i> , 2005 , 272, 1727-38	5.7	47
151	A sleep-inducing peptide from <i>Conus geographus</i> venom. <i>Toxicon</i> , 1985 , 23, 277-82	2.8	47
150	Structurally minimized mu-conotoxin analogues as sodium channel blockers: implications for designing conopeptide-based therapeutics. <i>ChemMedChem</i> , 2009 , 4, 406-14	3.7	45
149	A novel conus peptide ligand for K ⁺ channels. <i>Journal of Biological Chemistry</i> , 2003 , 278, 2177-83	5.4	45
148	Functional profiling of neurons through cellular neuropharmacology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 1388-95	11.5	44
147	Critical residues influence the affinity and selectivity of alpha-conotoxin MI for nicotinic acetylcholine receptors. <i>Biochemistry</i> , 1999 , 38, 13310-5	3.2	44
146	Alpha S-conotoxin RVIIIa: a structurally unique conotoxin that broadly targets nicotinic acetylcholine receptors. <i>Biochemistry</i> , 2005 , 44, 7897-902	3.2	43
145	Insights into the origins of fish hunting in venomous cone snails from studies of <i>Conus tessulatus</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, 5087-92	11.5	42
144	High conopeptide diversity in <i>Conus tribblei</i> revealed through analysis of venom duct transcriptome using two high-throughput sequencing platforms. <i>Marine Biotechnology</i> , 2015 , 17, 81-98	3.4	42
143	Using constellation pharmacology to define comprehensively a somatosensory neuronal subclass. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2319-24	11.5	41
142	Synergistic and antagonistic interactions between tetrodotoxin and mu-conotoxin in blocking voltage-gated sodium channels. <i>Channels</i> , 2009 , 3, 32-8	3	40

141	AlphaA-Conotoxin OIVA defines a new alphaA-conotoxin subfamily of nicotinic acetylcholine receptor inhibitors. <i>Toxicon</i> , 2004 , 44, 207-14	2.8	40
140	Co-expression of Na(V) β subunits alters the kinetics of inhibition of voltage-gated sodium channels by pore-blocking β -conotoxins. <i>British Journal of Pharmacology</i> , 2013 , 168, 1597-610	8.6	39
139	Microhabitats within venomous cone snails contain diverse actinobacteria. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 6820-6	4.8	39
138	The mitochondrial genome of <i>Conus textile</i> , <i>coxI-coxII</i> intergenic sequences and Conoidean evolution. <i>Molecular Phylogenetics and Evolution</i> , 2008 , 46, 215-23	4.1	39
137	Genes expressed in a turrid venom duct: divergence and similarity to conotoxins. <i>Journal of Molecular Evolution</i> , 2006 , 62, 247-56	3.1	39
136	A novel alpha conotoxin (alpha-PIB) isolated from <i>C. purpurascens</i> is selective for skeletal muscle nicotinic acetylcholine receptors. <i>Toxicon</i> , 2007 , 49, 1193-9	2.8	39
135	Complete mitochondrial DNA sequence of a Conoidean gastropod, <i>Lophiotoma (Xenuroturris) cerithiformis</i> : gene order and gastropod phylogeny. <i>Toxicon</i> , 2006 , 48, 29-43	2.8	39
134	Pyridine nucleotide metabolism in mammalian cells in culture. <i>Journal of Cellular Physiology</i> , 1973 , 82, 165-79	7	39
133	Combined proteomic and transcriptomic interrogation of the venom gland of <i>Conus geographus</i> uncovers novel components and functional compartmentalization. <i>Molecular and Cellular Proteomics</i> , 2014 , 13, 938-53	7.6	38
132	Characterization and three-dimensional structure determination of ψ -conotoxin Piiif, a novel noncompetitive antagonist of nicotinic acetylcholine receptors. <i>Biochemistry</i> , 2003 , 42, 6353-62	3.2	38
131	The block of Shaker K ⁺ channels by kappa-conotoxin PVIIA is state dependent. <i>Journal of General Physiology</i> , 1999 , 114, 125-40	3.4	38
130	Biodiversity of cone snails and other venomous marine gastropods: evolutionary success through neuropharmacology. <i>Annual Review of Animal Biosciences</i> , 2014 , 2, 487-513	13.7	37
129	Identification of a vitamin K-dependent carboxylase in the venom duct of a <i>Conus</i> snail. <i>FEBS Letters</i> , 1997 , 407, 85-8	3.8	37
128	The tetrodotoxin receptor of voltage-gated sodium channels--perspectives from interactions with micro-conotoxins. <i>Marine Drugs</i> , 2010 , 8, 2153-61	6	36
127	Disulfide-Depleted Selenoconopeptides: a Minimalist Strategy to Oxidative Folding of Cysteine-Rich Peptides. <i>ACS Medicinal Chemistry Letters</i> , 2010 , 1, 140-144	4.3	36
126	KappaM-conotoxin RIIK, structural and functional novelty in a K ⁺ channel antagonist. <i>Biochemistry</i> , 2004 , 43, 8625-35	3.2	36
125	Metabolic model for diversity-generating biosynthesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1772-7	11.5	35
124	Alpha-conopeptides specifically expressed in the salivary gland of <i>Conus pulicarius</i> . <i>Toxicon</i> , 2008 , 52, 101-5	2.8	35

123	Venomous auger snail <i>Hastula (Impages) hectica</i> (Linnaeus, 1758): molecular phylogeny, foregut anatomy and comparative toxinology. <i>Journal of Experimental Zoology Part B: Molecular and Developmental Evolution</i> , 2007 , 308, 744-56	1.8	35
122	Neuroprotective and cardioprotective conopeptides: an emerging class of drug leads. <i>Current Opinion in Drug Discovery & Development</i> , 2009 , 12, 231-9		35
121	Conantokin-P, an unusual conantokin with a long disulfide loop. <i>Toxicon</i> , 2008 , 52, 203-13	2.8	34
120	Rapid expansion of the protein disulfide isomerase gene family facilitates the folding of venom peptides. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 3227-32	11.5	33
119	Comparison of the Venom Peptides and Their Expression in Closely Related <i>Conus</i> Species: Insights into Adaptive Post-speciation Evolution of <i>Conus</i> Exogenomes. <i>Genome Biology and Evolution</i> , 2015 , 7, 1797-814	3.9	33
118	Modulation of conotoxin structure and function is achieved through a multienzyme complex in the venom glands of cone snails. <i>Journal of Biological Chemistry</i> , 2012 , 287, 34288-303	5.4	33
117	Cooccupancy of the outer vestibule of voltage-gated sodium channels by micro-conotoxin KIIIA and saxitoxin or tetrodotoxin. <i>Journal of Neurophysiology</i> , 2010 , 104, 88-97	3.2	33
116	Definition and characterization of the short alphaA-conotoxins: a single residue determines dissociation kinetics from the fetal muscle nicotinic acetylcholine receptor. <i>Biochemistry</i> , 2006 , 45, 1304-12	3.2	33
115	A uniquely selective inhibitor of the mammalian fetal neuromuscular nicotinic acetylcholine receptor. <i>Journal of Neuroscience</i> , 2005 , 25, 732-6	6.6	33
114	Animal toxins influence voltage-gated sodium channel function. <i>Handbook of Experimental Pharmacology</i> , 2014 , 221, 203-29	3.2	33
113	Venom Insulins of Cone Snails Diversify Rapidly and Track Prey Taxa. <i>Molecular Biology and Evolution</i> , 2016 , 33, 2924-2934	8.3	32
112	A disulfide tether stabilizes the block of sodium channels by the conotoxin D δ -GVIIJ. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 2758-63	11.5	32
111	Adaptive radiation of venomous marine snail lineages and the accelerated evolution of venom peptide genes. <i>Annals of the New York Academy of Sciences</i> , 2012 , 1267, 61-70	6.5	32
110	Natural products and ion channel pharmacology. <i>Future Medicinal Chemistry</i> , 2010 , 2, 731-44	4.1	32
109	Structure of a novel P-superfamily spasmodic conotoxin reveals an inhibitory cystine knot motif. <i>Journal of Biological Chemistry</i> , 2002 , 277, 43033-40	5.4	32
108	Comparative functional expression of nAChR subtypes in rodent DRG neurons. <i>Frontiers in Cellular Neuroscience</i> , 2013 , 7, 225	6.1	30
107	A rapidly diverging superfamily of peptide toxins in venomous <i>Gemmula</i> species. <i>Toxicon</i> , 2008 , 51, 890-7	2.8	30
106	Biochemical and gene expression analyses of conotoxins in <i>Conus textile</i> venom ducts. <i>Biochemical and Biophysical Research Communications</i> , 2005 , 328, 362-7	3.4	30

105	Biochemical characterization of kappaM-R111J, a Kv1.2 channel blocker: evaluation of cardioprotective effects of kappaM-conotoxins. <i>Journal of Biological Chemistry</i> , 2010 , 285, 14882-14889	5.4	29
104	Discovery by proteogenomics and characterization of an RF-amide neuropeptide from cone snail venom. <i>Journal of Proteomics</i> , 2015 , 114, 38-47	3.9	28
103	Conorfamide-Sr2, a gamma-carboxyglutamate-containing FMRFamide-related peptide from the venom of <i>Conus spurius</i> with activity in mice and mollusks. <i>Peptides</i> , 2008 , 29, 186-95	3.8	28
102	Mass spectrometric and high performance liquid chromatography profiling of the venom of the Brazilian vermivorous mollusk <i>Conus regius</i> : feeding behavior and identification of one novel conotoxin. <i>Toxicon</i> , 2005 , 45, 113-22	2.8	28
101	Peptides from <i>Conus</i> Venoms which Affect Ca ⁺⁺ Entry into Neurons. <i>Toxin Reviews</i> , 1990 , 9, 179-202		28
100	Constellation pharmacology: a new paradigm for drug discovery. <i>Annual Review of Pharmacology and Toxicology</i> , 2015 , 55, 573-89	17.9	27
99	Loss of planktotrophy and speciation: geographical fragmentation in the deep-water gastropod genus <i>Bathytoma</i> (Gastropoda, Conoidea) in the western Pacific. <i>Systematics and Biodiversity</i> , 2010 , 8, 371-394	1.7	27
98	Conotoxin K111A derivatives with divergent affinities versus efficacies in blocking voltage-gated sodium channels. <i>Biochemistry</i> , 2010 , 49, 4804-12	3.2	27
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