Baldomero M Olivera

List of Publications by Year in Descending Order

248 papers	16,002 citations	68 h-index	117 g-index
260 ext. papers	17,221 ext. citations	6.4 avg, IF	6.36 L-index

#	Paper	IF	Citations
248	Somatostatin venom analogs evolved by fish-hunting cone snails: From prey capture behavior to identifying drug leads.. *Science Advances*, **2022**, 8, eabk1410	14.3	2
247	Integrating Venom Peptide Libraries Into a Phylogenetic and Broader Biological Framework.. *Frontiers in Molecular Biosciences*, **2022**, 9, 784419	5.6	
246	Discovery of a Potent Conorfamide from Using a Novel Zebrafish Larvae Assay. *Journal of Natural Products*, **2021**, 84, 1232-1243	4.9	1
245	Neuroactive Type-A -Aminobutyric Acid Receptor Allosteric Modulator Steroids from the Hypobranchial Gland of Marine Mollusk,. *Journal of Medicinal Chemistry*, **2021**, 64, 7033-7043	8.3	1
244	Non-Peptidic Small Molecule Components from Cone Snail Venoms. *Frontiers in Pharmacology*, **2021**, 12, 655981	5.6	2
243	Cannabinoid receptor agonists from Conus venoms alleviate pain-related behavior in rats. *Pharmacology Biochemistry and Behavior*, **2021**, 205, 173182	3.9	1
242	Small-molecule mimicry hunting strategy in the imperial cone snail,. *Science Advances*, **2021**, 7,	14.3	11
241	Nicotinic Acetylcholine Receptor Partial Antagonist Polyamides from Tunicates and Their Predatory Sea Slugs. *ACS Chemical Neuroscience*, **2021**, 12, 2693-2704	5.7	3
240	The Tunicate Metabolite 2-(3,5-Diiodo-4-methoxyphenyl)ethan-1-amine Targets Ion Channels of Vertebrate Sensory Neurons. *ACS Chemical Biology*, **2021**, 16, 1654-1662	4.9	1
239	A Serendipitous Path to Pharmacology. *Annual Review of Pharmacology and Toxicology*, **2021**, 61, 9-23	17.9	3
238	A structurally minimized yet fully active insulin based on cone-snail venom insulin principles. *Nature Structural and Molecular Biology*, **2020**, 27, 615-624	17.6	14
237	An integrative approach to the facile functional classification of dorsal root ganglion neuronal subclasses. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 5494-5501	11.5	15
236	Boholamide A, an APD-Class, Hypoxia-Selective Cyclodepsipeptide. *Journal of Natural Products*, **2020**, 83, 1249-1257	4.9	4
235	M-Conotoxin MIIIJ Blocks Nicotinic Acetylcholine Receptors at Neuromuscular Junctions of Frog and Fish. *Toxins*, **2020**, 12,	4.9	7
234	Transcriptomic Profiling Reveals Extraordinary Diversity of Venom Peptides in Unexplored Predatory Gastropods of the Genus Clavus. *Genome Biology and Evolution*, **2020**, 12, 684-700	3.9	7
233	Chronicling changes in the somatosensory neurons after peripheral nerve injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 26414-26421	11.5	3
232	Curses or Cures: A Review of the Numerous Benefits Versus the Biosecurity Concerns of Conotoxin Research. *Biomedicines*, **2020**, 8,	4.8	12

231	Purification and Characterization of the Pink-Floyd Drillipeptide, a Bioactive Venom Peptide from (Gastropoda: Conoidea: Drilliidae). *Toxins*, **2020**, 12,	4.9	1
230	-Anethole of Fennel Oil is a Selective and Nonelectrophilic Agonist of the TRPA1 Ion Channel. *Molecular Pharmacology*, **2019**, 95, 433-441	4.3	11
229	The three-dimensional structure of an H-superfamily conotoxin reveals a granulin fold arising from a common ICK cysteine framework. *Journal of Biological Chemistry*, **2019**, 294, 8745-8759	5.4	10
228	Pain therapeutics from cone snail venoms: From Ziconotide to novel non-opioid pathways. *Journal of Proteomics*, **2019**, 190, 12-20	3.9	61
227	Characterization of the First Conotoxin from , a Vermivorous Cone Snail from the Cabo Verde Archipelago. *Marine Drugs*, **2019**, 17,	6	5
226	Conotoxin VnIB from Conus ventricosus is a potent and selective antagonist of * nicotinic acetylcholine receptors. *Neuropharmacology*, **2019**, 157, 107691	5.5	6
225	Fish-hunting cone snail venoms are a rich source of minimized ligands of the vertebrate insulin receptor. *ELife*, **2019**, 8,	8.9	26
224	Conotoxin M-RIIIJ, a tool targeting asymmetric heteromeric K1 channels. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 1059-1064	11.5	11
223	Conopeptides promote itch through human itch receptor hMgprX1. *Toxicon*, **2018**, 154, 28-34	2.8	7
222	Ero1-Mediated Reoxidation of Protein Disulfide Isomerase Accelerates the Folding of Cone Snail Toxins. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	4
221	Structure and activity of contryphan-Vc2: Importance of the d-amino acid residue. *Toxicon*, **2017**, 129, 113-122	2.8	9
220	TRPA1 expression levels and excitability brake by K channels influence cold sensitivity of TRPA1-expressing neurons. *Neuroscience*, **2017**, 353, 76-86	3.9	20
219	Structure and Biological Activity of a Turripeptide from Unedogemmula bisaya Venom. *Biochemistry*, **2017**, 56, 6051-6060	3.2	5
218	Stenotrophomonas-Like Bacteria Are Widespread Symbionts in Cone Snail Venom Ducts. *Applied and Environmental Microbiology*, **2017**, 83,	4.8	6
217	The Venom Repertoire of Conus gloriamaris (Chemnitz, 1777), the Glory of the Sea. *Marine Drugs*, **2017**, 15,	6	19
216	Divergence of the Venom Exogene Repertoire in Two Sister Species of Turriconus. *Genome Biology and Evolution*, **2017**, 9, 2211-2225	3.9	18
215	Linking neuroethology to the chemical biology of natural products: interactions between cone snails and their fish prey, a case study. *Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology*, **2017**, 203, 717-735	2.3	9
214	Characterization of the complete mitochondrial genome of Conus tribblei Walls, 1977. *Mitochondrial DNA Part A: DNA Mapping, Sequencing, and Analysis*, **2016**, 27, 4451-4452	1.3	5

213	Venom Insulins of Cone Snails Diversify Rapidly and Track Prey Taxa. *Molecular Biology and Evolution*, **2016**, 33, 2924-2934	8.3	32
212	A minimized human insulin-receptor-binding motif revealed in a Conus geographus venom insulin. *Nature Structural and Molecular Biology*, **2016**, 23, 916-920	17.6	48
211	Classifying neuronal subclasses of the cerebellum through constellation pharmacology. *Journal of Neurophysiology*, **2016**, 115, 1031-42	3.2	7
210	Metabolic model for diversity-generating biosynthesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 1772-7	11.5	35
209	Glycine-rich conotoxins from the Virgiconus clade. *Toxicon*, **2016**, 113, 11-7	2.8	2
208	Structural Basis for the Inhibition of Voltage-gated Sodium Channels by Conotoxin □§-GVIIJ. *Journal of Biological Chemistry*, **2016**, 291, 7205-20	5.4	4
207	Rapid expansion of the protein disulfide isomerase gene family facilitates the folding of venom peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2016**, 113, 3227-32	11.5	33
206	Structural features of conopeptide genes inferred from partial sequences of the Conus tribblei genome. *Molecular Genetics and Genomics*, **2016**, 291, 411-22	3.1	22
205	Specialized insulin is used for chemical warfare by fish-hunting cone snails. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 1743-8	11.5	97
204	Karyological analysis and FISH physical mapping of 18S rDNA genes, (GATA)n centromeric and (TTAGGG)n telomeric sequences in Conus magus Linnaeus, 1758. *Journal of Molluscan Studies*, **2015**, 81, 274-289	1.1	5
203	□-conotoxin GVIIIB potently and selectively blocks □□10 nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2015**, 96, 349-56	6	20
202	Probing the Redox States of Sodium Channel Cysteines at the Binding Site of □§-Conotoxin GVIIJ. *Biochemistry*, **2015**, 54, 3911-20	3.2	6
201	A marine analgesic peptide, Contulakin-G, and neurotensin are distinct agonists for neurotensin receptors: uncovering structural determinants of desensitization properties. *Frontiers in Pharmacology*, **2015**, 6, 11	5.6	20
200	Insights into the origins of fish hunting in venomous cone snails from studies of Conus tessulatus. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 5087-92	11.5	42
199	Small Molecules in the Cone Snail Arsenal. *Organic Letters*, **2015**, 17, 4933-5	6.2	16
198	Discovery by proteogenomics and characterization of an RF-amide neuropeptide from cone snail venom. *Journal of Proteomics*, **2015**, 114, 38-47	3.9	28
197	High conopeptide diversity in Conus tribblei revealed through analysis of venom duct transcriptome using two high-throughput sequencing platforms. *Marine Biotechnology*, **2015**, 17, 81-98	3.4	42
196	Conopeptides, Marine Natural Products from Venoms: Biomedical Applications and Future Research Applications **2015**, 463-496		

195	Comparison of the Venom Peptides and Their Expression in Closely Related Conus Species: Insights into Adaptive Post-speciation Evolution of Conus Exogenomes. *Genome Biology and Evolution*, **2015**, 7, 1797-814	3.9	33
194	Prey-Capture Strategies of Fish-Hunting Cone Snails: Behavior, Neurobiology and Evolution. *Brain, Behavior and Evolution*, **2015**, 86, 58-74	1.5	50
193	From foe to friend: using animal toxins to investigate ion channel function. *Journal of Molecular Biology*, **2015**, 427, 158-175	6.5	114
192	and subunit composition of voltage-gated sodium channels investigated with conotoxins and the recently discovered -conotoxin GVIIJ. *Journal of Neurophysiology*, **2015**, 113, 2289-301	3.2	17
191	CHAPTER 6:The Molecular Diversity of Conoidean Venom Peptides and their Targets: From Basic Research to Therapeutic Applications. *RSC Drug Discovery Series*, **2015**, 163-203	0.6	4
190	Constellation pharmacology: a new paradigm for drug discovery. *Annual Review of Pharmacology and Toxicology*, **2015**, 55, 573-89	17.9	27
189	Structure and activity of lobophorins from a turrid mollusk-associated Streptomyces sp. *Journal of Antibiotics*, **2014**, 67, 121-6	3.7	26
188	A family of excitatory peptide toxins from venomous crassispirine snails: using Constellation Pharmacology to assess bioactivity. *Toxicon*, **2014**, 89, 45-54	2.8	13
187	Combined proteomic and transcriptomic interrogation of the venom gland of Conus geographus uncovers novel components and functional compartmentalization. *Molecular and Cellular Proteomics*, **2014**, 13, 938-53	7.6	38
186	Using constellation pharmacology to define comprehensively a somatosensory neuronal subclass. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 2319-24	11.5	41
185	Biodiversity of cone snails and other venomous marine gastropods: evolutionary success through neuropharmacology. *Annual Review of Animal Biosciences*, **2014**, 2, 487-513	13.7	37
184	A disulfide tether stabilizes the block of sodium channels by the conotoxin -GVIIJ. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 2758-63	11.5	32
183	Defining modulatory inputs into CNS neuronal subclasses by functional pharmacological profiling. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 6449-54	11.5	13
182	From molecular phylogeny towards differentiating pharmacology for NMDA receptor subtypes. *Toxicon*, **2014**, 81, 67-79	2.8	9
181	Animal toxins influence voltage-gated sodium channel function. *Handbook of Experimental Pharmacology*, **2014**, 221, 203-29	3.2	33
180	Characterization of the peptidylglycine amidating monooxygenase (PAM) from the venom ducts of neogastropods, Conus bullatus and Conus geographus. *Toxicon*, **2013**, 74, 215-24	2.8	14
179	Ribosomally synthesized and post-translationally modified peptide natural products: overview and recommendations for a universal nomenclature. *Natural Product Reports*, **2013**, 30, 108-60	15.1	1298
178	Co-expression of Na(V) subunits alters the kinetics of inhibition of voltage-gated sodium channels by pore-blocking conotoxins. *British Journal of Pharmacology*, **2013**, 168, 1597-610	8.6	39

177	Snail Peptides **2013**, 437-450		1
176	Comparative functional expression of nAChR subtypes in rodent DRG neurons. *Frontiers in Cellular Neuroscience*, **2013**, 7, 225	6.1	30
175	Adaptive radiation of venomous marine snail lineages and the accelerated evolution of venom peptide genes. *Annals of the New York Academy of Sciences*, **2012**, 1267, 61-70	6.5	32
174	A very short, functionally constrained sequence diagnoses cone snails in several Conasprella clades. *Molecular Phylogenetics and Evolution*, **2012**, 65, 335-8	4.1	4
173	Totopotensamides, polyketide-cyclic peptide hybrids from a mollusk-associated bacterium Streptomyces sp. *Journal of Natural Products*, **2012**, 75, 644-9	4.9	23
172	Conantokins derived from the Asprella clade impart conRl-B, an N-methyl d-aspartate receptor antagonist with a unique selectivity profile for NR2B subunits. *Biochemistry*, **2012**, 51, 4685-92	3.2	13
171	Elucidation of the molecular envenomation strategy of the cone snail Conus geographus through transcriptome sequencing of its venom duct. *BMC Genomics*, **2012**, 13, 284	4.5	74
170	Distinct disulfide isomers of □conotoxins KIIIA and KIIIB block voltage-gated sodium channels. *Biochemistry*, **2012**, 51, 9826-35	3.2	54
169	Novel venom peptides from the cone snail Conus pulicarius discovered through next-generation sequencing of its venom duct transcriptome. *Marine Genomics*, **2012**, 5, 43-51	1.9	53
168	Dissecting a role of evolutionary-conserved but noncritical disulfide bridges in cysteine-rich peptides using □conotoxin GVIA and its selenocysteine analogs. *Biopolymers*, **2012**, 98, 212-23	2.2	10
167	Functional profiling of neurons through cellular neuropharmacology. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 1388-95	11.5	44
166	Modulation of conotoxin structure and function is achieved through a multienzyme complex in the venom glands of cone snails. *Journal of Biological Chemistry*, **2012**, 287, 34288-303	5.4	33
165	Characterization of two neuronal subclasses through constellation pharmacology. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 12758-63	11.5	50
164	Characterization of a venom peptide from a crassispirid gastropod. *Toxicon*, **2011**, 58, 672-80	2.8	14
163	Neuroscience: chemical ecology of pain. *Nature*, **2011**, 479, 306-7	50.4	5
162	Genetic divergence and geographic variation in the deep-water Conus orbignyi complex (Mollusca: Conoidea). *Zoologica Scripta*, **2011**, 40, 350-363	2.5	13
161	Characterization of the Conus bullatus genome and its venom-duct transcriptome. *BMC Genomics*, **2011**, 12, 60	4.5	97
160	Against expectation: a short sequence with high signal elucidates cone snail phylogeny. *Molecular Phylogenetics and Evolution*, **2011**, 58, 383-9	4.1	11

159	Phylogeny of the genus Turris: correlating molecular data with radular anatomy and shell morphology. *Molecular Phylogenetics and Evolution*, **2011**, 59, 263-70	4.1	12
158	Conotoxins that differentially block sodium channels NaV1.1 through 1.8 identify those responsible for action potentials in sciatic nerve. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 10302-7	11.5	106
157	The tetrodotoxin receptor of voltage-gated sodium channels--perspectives from interactions with micro-conotoxins. *Marine Drugs*, **2010**, 8, 2153-61	6	36
156	Natural products and ion channel pharmacology. *Future Medicinal Chemistry*, **2010**, 2, 731-44	4.1	32
155	Loss of planktotrophy and speciation: geographical fragmentation in the deep-water gastropod genus Bathytoma (Gastropoda, Conoidea) in the western Pacific. *Systematics and Biodiversity*, **2010**, 8, 371-394	1.7	27
154	Biochemical characterization of kappaM-RIIIJ, a Kv1.2 channel blocker: evaluation of cardioprotective effects of kappaM-conotoxins. *Journal of Biological Chemistry*, **2010**, 285, 14882-14889	5.4	29
153	Identification of Conus peptidylprolyl cis-trans isomerases (PPIases) and assessment of their role in the oxidative folding of conotoxins. *Journal of Biological Chemistry*, **2010**, 285, 12735-46	5.4	25
152	Accessing novel conoidean venoms: Biodiverse lumun-lumun marine communities, an untapped biological and toxinological resource. *Toxicon*, **2010**, 56, 1257-66	2.8	16
151	Conotoxin KIIIA derivatives with divergent affinities versus efficacies in blocking voltage-gated sodium channels. *Biochemistry*, **2010**, 49, 4804-12	3.2	27
150	Divergent M- and O-superfamily peptides from venom of fish-hunting Conus parius. *Peptides*, **2010**, 31, 1678-83	3.8	12
149	Disulfide-Depleted Selenoconopeptides: a Minimalist Strategy to Oxidative Folding of Cysteine-Rich Peptides. *ACS Medicinal Chemistry Letters*, **2010**, 1, 140-144	4.3	36
148	Site-specific effects of diselenide bridges on the oxidative folding of a cystine knot peptide, omega-selenoconotoxin GVIA. *Biochemistry*, **2010**, 49, 2741-52	3.2	57
147	Cooccupancy of the outer vestibule of voltage-gated sodium channels by micro-conotoxin KIIIA and saxitoxin or tetrodotoxin. *Journal of Neurophysiology*, **2010**, 104, 88-97	3.2	33
146	Evolution of Conus peptide genes: duplication and positive selection in the A-superfamily. *Journal of Molecular Evolution*, **2010**, 70, 190-202	3.1	49
145	Evolution of Conus peptide toxins: analysis of Conus californicus Reeve, 1844. *Molecular Phylogenetics and Evolution*, **2010**, 56, 1-12	4.1	51
144	Characterization of conantokin Rl-A: molecular phylogeny as structure/function study. *Journal of Peptide Science*, **2010**, 16, 375-82	2.1	9
143	Defining a Clade by Morphological, Molecular and Toxinological Criteria: Distinctive Forms related to Conus praecellens A. Adams, 1854. *Nautilus*, **2010**, 124, 1-19		6
142	THE INDO-PACIFIC GEMMULA SPECIES IN THE SUBFAMILY TURRINAE: ASPECTS OF FIELD DISTRIBUTION, MOLECULAR PHYLOGENY, RADULAR ANATOMY AND FEEDING ECOLOGY **2010**, 3,		1

141	Turris babylonia; re-evaluation of a species complex and description of Turris assyria, new species **2010**, 3,		3
140	Correlating molecular phylogeny with venom apparatus occurrence in Panamic auger snails (Terebridae). *PLoS ONE*, **2009**, 4, e7667	3.7	14
139	Biology and Pharmacology of Conotoxins **2009**, 446-464		1
138	Microhabitats within venomous cone snails contain diverse actinobacteria. *Applied and Environmental Microbiology*, **2009**, 75, 6820-6	4.8	39
137	Synergistic and antagonistic interactions between tetrodotoxin and mu-conotoxin in blocking voltage-gated sodium channels. *Channels*, **2009**, 3, 32-8	3	40
136	A novel Conus snail polypeptide causes excitotoxicity by blocking desensitization of AMPA receptors. *Current Biology*, **2009**, 19, 900-8	6.3	57
135	Structurally minimized mu-conotoxin analogues as sodium channel blockers: implications for designing conopeptide-based therapeutics. *ChemMedChem*, **2009**, 4, 406-14	3.7	45
134	Integrated oxidative folding of cysteine/selenocysteine containing peptides: improving chemical synthesis of conotoxins. *Angewandte Chemie - International Edition*, **2009**, 48, 2221-4	16.4	74
133	Multiple genes elucidate the evolution of venomous snail-hunting Conus species. *Molecular Phylogenetics and Evolution*, **2009**, 53, 645-52	4.1	17
132	Pruning nature: Biodiversity-derived discovery of novel sodium channel blocking conotoxins from Conus bullatus. *Toxicon*, **2009**, 53, 90-8	2.8	47
131	Peptide pal9a from the venom of the turrid snail Polystira albida from the Gulf of Mexico: purification, characterization, and comparison with P-conotoxin-like (framework IX) conoidean peptides. *Peptides*, **2009**, 30, 467-76	3.8	21
130	Conantokin-Br from Conus brettinghami and selectivity determinants for the NR2D subunit of the NMDA receptor. *Biochemistry*, **2009**, 48, 4063-73	3.2	25
129	Evolution of the Toxoglossa venom apparatus as inferred by molecular phylogeny of the Terebridae. *Molecular Biology and Evolution*, **2009**, 26, 15-25	8.3	27
128	Neuroprotective and cardioprotective conopeptides: an emerging class of drug leads. *Current Opinion in Drug Discovery & Development*, **2009**, 12, 231-9		35
127	Specificity, affinity and efficacy of iota-conotoxin RXIA, an agonist of voltage-gated sodium channels Na(V)1.2, 1.6 and 1.7. *Biochemical Pharmacology*, **2008**, 75, 2334-44	6	51
126	Folding of conotoxins: formation of the native disulfide bridges during chemical synthesis and biosynthesis of Conus peptides. *Antioxidants and Redox Signaling*, **2008**, 10, 141-55	8.4	77
125	Alpha-RgIA, a novel conotoxin that blocks the alpha9alpha10 nAChR: structure and identification of key receptor-binding residues. *Journal of Molecular Biology*, **2008**, 377, 1216-27	6.5	88
124	Conantokin-P, an unusual conantokin with a long disulfide loop. *Toxicon*, **2008**, 52, 203-13	2.8	34

123	Alpha-conopeptides specifically expressed in the salivary gland of Conus pulicarius. *Toxicon*, **2008**, 52, 101-5	2.8	35
122	Purification and characterization of a novel excitatory peptide from Conus distans venom that defines a novel gene superfamily of conotoxins. *Toxicon*, **2008**, 52, 139-45	2.8	16
121	Two new 4-Cys conotoxins (framework 14) of the vermivorous snail Conus austini from the Gulf of Mexico with activity in the central nervous system of mice. *Peptides*, **2008**, 29, 179-85	3.8	13
120	Conorfamide-Sr2, a gamma-carboxyglutamate-containing FMRFamide-related peptide from the venom of Conus spurius with activity in mice and mollusks. *Peptides*, **2008**, 29, 186-95	3.8	28
119	I(1)-superfamily conotoxins and prediction of single D-amino acid occurrence. *Toxicon*, **2008**, 51, 218-29	2.8	22
118	A rapidly diverging superfamily of peptide toxins in venomous Gemmula species. *Toxicon*, **2008**, 51, 890-7	2.8	30
117	NMR-based mapping of disulfide bridges in cysteine-rich peptides: application to the mu-conotoxin SxIIIA. *Journal of the American Chemical Society*, **2008**, 130, 14280-6	16.4	47
116	Tyrosine-rich conopeptides affect voltage-gated K+ channels. *Journal of Biological Chemistry*, **2008**, 283, 23026-32	5.4	19
115	Subtype-selective conopeptides targeted to nicotinic receptors: Concerted discovery and biomedical applications. *Channels*, **2008**, 2, 143-52	3	58
114	Conus venoms - a rich source of peptide-based therapeutics. *Current Pharmaceutical Design*, **2008**, 14, 2462-79	3.3	176
113	The mitochondrial genome of Conus textile, coxI-coxII intergenic sequences and Conoidean evolution. *Molecular Phylogenetics and Evolution*, **2008**, 46, 215-23	4.1	39
112	Using Conus venom peptides to understand nervous systems and discover drugs. *FASEB Journal*, **2008**, 22, 252.1	0.9	
111	Structure and sodium channel activity of an excitatory I1-superfamily conotoxin. *Biochemistry*, **2007**, 46, 9929-40	3.2	70
110	Venomous auger snail Hastula (Impages) hectica (Linnaeus, 1758): molecular phylogeny, foregut anatomy and comparative toxinology. *Journal of Experimental Zoology Part B: Molecular and Developmental Evolution*, **2007**, 308, 744-56	1.8	35
109	Conotoxins containing nonnatural backbone spacers: cladistic-based design, chemical synthesis, and improved analgesic activity. *Chemistry and Biology*, **2007**, 14, 399-407		62
108	Alpha4/3 conotoxins: phylogenetic distribution, functional properties, and structure-function insights. *Chemical Record*, **2007**, 7, 341-53	6.6	19
107	muO conotoxins inhibit NaV channels by interfering with their voltage sensors in domain-2. *Channels*, **2007**, 1, 253-62	3	53
106	Structure/function characterization of micro-conotoxin KIIIA, an analgesic, nearly irreversible blocker of mammalian neuronal sodium channels. *Journal of Biological Chemistry*, **2007**, 282, 30699-706	5.4	114

105	Diversity of the neurotoxic Conus peptides: a model for concerted pharmacological discovery. *Molecular Interventions: Pharmacological Perspectives From Biology, Chemistry and Genomics*, **2007**, 7, 251-60		159
104	Discovery and characterization of the short kappaA-conotoxins: a novel subfamily of excitatory conotoxins. *Toxicon*, **2007**, 49, 318-28	2.8	25
103	A novel alpha conotoxin (alpha-PIB) isolated from C. purpurascens is selective for skeletal muscle nicotinic acetylcholine receptors. *Toxicon*, **2007**, 49, 1193-9	2.8	39
102	AlphaC-conotoxin PrXA: a new family of nicotinic acetylcholine receptor antagonists. *Biochemistry*, **2007**, 46, 8717-24	3.2	49
101	Genes expressed in a turrid venom duct: divergence and similarity to conotoxins. *Journal of Molecular Evolution*, **2006**, 62, 247-56	3.1	39
100	Molecular mechanism for analgesia involving specific antagonism of alpha9alpha10 nicotinic acetylcholine receptors. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17880-4	11.5	198
99	A novel conotoxin inhibitor of Kv1.6 channel and nAChR subtypes defines a new superfamily of conotoxins. *Biochemistry*, **2006**, 45, 8331-40	3.2	76
98	Conus peptides: biodiversity-based discovery and exogenomics. *Journal of Biological Chemistry*, **2006**, 281, 31173-7	5.4	257
97	Alpha-RgIA: a novel conotoxin that specifically and potently blocks the alpha9alpha10 nAChR. *Biochemistry*, **2006**, 45, 1511-7	3.2	130
96	Synthetic muO-conotoxin MrVIB blocks TTX-resistant sodium channel NaV1.8 and has a long-lasting analgesic activity. *Biochemistry*, **2006**, 45, 7404-14	3.2	87
95	Definition and characterization of the short alphaA-conotoxins: a single residue determines dissociation kinetics from the fetal muscle nicotinic acetylcholine receptor. *Biochemistry*, **2006**, 45, 1304-12	3.2	33
94	Amino acid sequence and biological activity of a gamma-conotoxin-like peptide from the worm-hunting snail Conus austini. *Peptides*, **2006**, 27, 506-11	3.8	24
93	Complete mitochondrial DNA sequence of a Conoidean gastropod, Lophiotoma (Xenuroturris) cerithiformis: gene order and gastropod phylogeny. *Toxicon*, **2006**, 48, 29-43	2.8	39
92	Conotoxins down under. *Toxicon*, **2006**, 48, 780-98	2.8	141
91	Conus Peptides: Biodiversity-based Discovery and Exogenomics. *Journal of Biological Chemistry*, **2006**, 281, 31173-31177	5.4	8
90	Definition of the M-conotoxin superfamily: characterization of novel peptides from molluscivorous Conus venoms. *Biochemistry*, **2005**, 44, 8176-86	3.2	83
89	Biochemical and gene expression analyses of conotoxins in Conus textile venom ducts. *Biochemical and Biophysical Research Communications*, **2005**, 328, 362-7	3.4	30
88	Molecular interaction of delta-conotoxins with voltage-gated sodium channels. *FEBS Letters*, **2005**, 579, 3881-4	3.8	84

87	Mass spectrometric and high performance liquid chromatography profiling of the venom of the Brazilian vermivorous mollusk Conus regius: feeding behavior and identification of one novel conotoxin. *Toxicon*, **2005**, 45, 113-22	2.8	28
86	Alpha S-conotoxin RVIIIA: a structurally unique conotoxin that broadly targets nicotinic acetylcholine receptors. *Biochemistry*, **2005**, 44, 7897-902	3.2	43
85	Oxidative folding of conotoxins sharing an identical disulfide bridging framework. *FEBS Journal*, **2005**, 272, 1727-38	5.7	47
84	Characterization of D-amino-acid-containing excitatory conotoxins and redefinition of the I-conotoxin superfamily. *FEBS Journal*, **2005**, 272, 4178-88	5.7	61
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