David J. Adams

List of Publications by Year in Descending Order

213 papers	8,837 citations	54 h-index	81 g-index
229 ext. papers	9,874 ext. citations	6.3 avg, IF	6.07 L-index

#	Paper	IF	Citations
213	Analgesic -conotoxins modulate native and recombinant GIRK1/2 channels via activation of GABA receptors and reduce neuroexcitability. *British Journal of Pharmacology*, **2021**,	8.6	1
212	Functional modulation of the human voltage-gated sodium channel Na1.8 by auxiliary -subunits. *Channels*, **2021**, 15, 79-93	3	0
211	Alkyne-Bridged -Conotoxin Vc1.1 Potently Reverses Mechanical Allodynia in Neuropathic Pain Models. *Journal of Medicinal Chemistry*, **2021**, 64, 3222-3233	8.3	4
210	-Conotoxin Bt1.8 from Conus betulinus selectively inhibits 6/3*3 and 3*2 nicotinic acetylcholine receptor subtypes. *Journal of Neurochemistry*, **2021**, 159, 90-100	6	3
209	Medicinal chemistry, pharmacology, and therapeutic potential of -conotoxins antagonizing the 910 nicotinic acetylcholine receptor. *Pharmacology & Therapeutics*, **2021**, 222, 107792	13.9	10
208	Trends in peptide drug discovery. *Nature Reviews Drug Discovery*, **2021**, 20, 309-325	64.1	185
207	Globular and ribbon isomers of Conus geographus -conotoxins antagonize human nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2021**, 190, 114638	6	3
206	Electrical properties and synaptic transmission in mouse intracardiac ganglion neurons in situ. *Physiological Reports*, **2021**, 9, e15056	2.6	0
205	Coronaridine congeners decrease neuropathic pain in mice and inhibit 910 nicotinic acetylcholine receptors and Ca2.2 channels. *Neuropharmacology*, **2020**, 175, 108194	5.5	8
204	An environmentally sustainable biomimetic production of cyclic disulfide-rich peptides. *Green Chemistry*, **2020**, 22, 5002-5016	10	13
203	Dimerization of -Conotoxins as a Strategy to Enhance the Inhibition of the Human and 910 Nicotinic Acetylcholine Receptors. *Journal of Medicinal Chemistry*, **2020**, 63, 2974-2985	8.3	7
202	68Ga-Prostate-Specific Membrane Antigen Uptake in Cerebral Tuberculosis. *Clinical Nuclear Medicine*, **2020**, 45, 238-240	1.7	5
201	On-resin strategy to label -conotoxins: Cy5-RgIA, a potent 910 nicotinic acetylcholine receptor imaging probe. *Australian Journal of Chemistry*, **2020**, 73, 327-333	1.2	1
200	Structural basis of the potency and selectivity of Urotoxin, a potent Kv1 blocker from scorpion venom. *Biochemical Pharmacology*, **2020**, 174, 113782	6	5
199	Ketamine inhibits synaptic transmission and nicotinic acetylcholine receptor-mediated responses in rat intracardiac ganglia in situ. *Neuropharmacology*, **2020**, 165, 107932	5.5	1
198	Fulditoxin, representing a new class of dimeric snake toxins, defines novel pharmacology at nicotinic ACh receptors. *British Journal of Pharmacology*, **2020**, 177, 1822-1840	8.6	8
197	()-3-Furan-2-yl---tolyl-acrylamide and its Derivative DM489 Decrease Neuropathic Pain in Mice Predominantly by Nicotinic Acetylcholine Receptor Potentiation. *ACS Chemical Neuroscience*, **2020**, 11, 3603-3614	5.7	6

196	Rational Design of α-Conotoxin RgIIA Analogues Selectively Inhibiting the Human α9α10 Nicotinic Acetylcholine Receptor through Computational Scanning. *ACS Chemical Neuroscience*, **2020**, 11, 2804-2811	5.7	7
195	Interactions of the α9α10 Nicotinic Acetylcholine Receptor Interfaces with α-Conotoxin LsIA and its Carboxylated C-terminus Analogue: Molecular Dynamics Simulations. *Marine Drugs*, **2020**, 18,	6	2
194	A method for high-content functional imaging of intracellular calcium responses in gelatin-immobilized non-adherent cells. *Experimental Cell Research*, **2020**, 395, 112210	4.2	1
193	N-acetyl-d-glucosamine-conjugated PAMAM dendrimers as dual receptor-targeting nanocarriers for anticancer drug delivery. *European Journal of Pharmaceutics and Biopharmaceutics*, **2020**, 154, 377-386	5.7	15
192	Molecular and Functional Characterization of Neurogenin-2 Induced Human Sensory Neurons. *Frontiers in Cellular Neuroscience*, **2020**, 14, 600895	6.1	4
191	Spider Venom Peptide Pn3a Inhibition of Primary Afferent High Voltage-Activated Calcium Channels. *Frontiers in Pharmacology*, **2020**, 11, 633679	5.6	0
190	Molecular dynamics simulations of dihydro-β-erythroidine bound to the human α4β2 nicotinic acetylcholine receptor. *British Journal of Pharmacology*, **2019**, 176, 2750-2763	8.6	8
189	Drysdalin, an antagonist of nicotinic acetylcholine receptors highlights the importance of functional rather than structural conservation of amino acid residues. *FASEB BioAdvances*, **2019**, 1, 115-131	2.8	7
188	Monoclonal Antibody-Conjugated Dendritic Nanostructures for siRNA Delivery. *Methods in Molecular Biology*, **2019**, 1974, 195-201	1.4	6
187	Analgesic transient receptor potential vanilloid-1-active compounds inhibit native and recombinant T-type calcium channels. *British Journal of Pharmacology*, **2019**, 176, 2264-2278	8.6	6
186	α-Conotoxin Vc1.1 Structure-Activity Relationship at the Human α9α10 Nicotinic Acetylcholine Receptor Investigated by Minimal Side Chain Replacement. *ACS Chemical Neuroscience*, **2019**, 10, 4328-4336	5.7	5
185	Bombesin receptors as potential targets for anticancer drug delivery and imaging. *International Journal of Biochemistry and Cell Biology*, **2019**, 114, 105567	5.6	17
184	A novel Conopeptide Eu1.6 inhibits N-type (Ca2.2) calcium channels and exhibits potent analgesic activity. *Scientific Reports*, **2018**, 8, 1004	4.9	16
183	Contribution of membrane receptor signalling to chronic visceral pain. *International Journal of Biochemistry and Cell Biology*, **2018**, 98, 10-23	5.6	18
182	α-Conotoxins active at β-containing nicotinic acetylcholine receptors and their molecular determinants for selective inhibition. *British Journal of Pharmacology*, **2018**, 175, 1855-1868	8.6	14
181	Inhibition of human N- and T-type calcium channels by an ortho-phenoxyanilide derivative, MONIRO-1. *British Journal of Pharmacology*, **2018**, 175, 2284-2295	8.6	7
180	Stoichiometry dependent inhibition of rat α4β4 nicotinic acetylcholine receptor by the ribbon isomer of α-conotoxin AuIB. *Biochemical Pharmacology*, **2018**, 155, 288-297	6	7
179	Molecular Determinants Conferring the Stoichiometric-Dependent Activity of α-Conotoxins at the Human α9α10 Nicotinic Acetylcholine Receptor Subtype. *Journal of Medicinal Chemistry*, **2018**, 61, 4628-4634	8.3	17

178	Cyclic analogues of α-conotoxin Vc1.1 inhibit colonic nociceptors and provide analgesia in a mouse model of chronic abdominal pain. *British Journal of Pharmacology*, **2018**, 175, 2384-2398	8.6	28
177	Targeting of N-Type Calcium Channels via GABA-Receptor Activation by α-Conotoxin Vc1.1 Variants Displaying Improved Analgesic Activity. *Journal of Medicinal Chemistry*, **2018**, 61, 10198-10205	8.3	12
176	Novel analgesic α-conotoxins from the vermivorous cone snail Conus moncuri provide new insights into the evolution of conopeptides. *Scientific Reports*, **2018**, 8, 13397	4.9	12
175	Structure-Activity Studies Reveal the Molecular Basis for GABA-Receptor Mediated Inhibition of High Voltage-Activated Calcium Channels by α-Conotoxin Vc1.1. *ACS Chemical Biology*, **2018**, 13, 1577-1587	4.9	22
174	α-Conotoxin Vc1.1 inhibits human dorsal root ganglion neuroexcitability and mouse colonic nociception via GABA receptors. *Gut*, **2017**, 66, 1083-1094	19.2	61
173	The tarantula toxin ΔETRTX-Pre1a highlights the importance of the S1-S2 voltage-sensor region for sodium channel subtype selectivity. *Scientific Reports*, **2017**, 7, 974	4.9	14
172	Analgesic conopeptides targeting G protein-coupled receptors reduce excitability of sensory neurons. *Neuropharmacology*, **2017**, 127, 116-123	5.5	23
171	A Novel Lid-Covering Peptide Inhibitor of Nicotinic Acetylcholine Receptors Derived from D-Conotoxin GeXXA. *Marine Drugs*, **2017**, 15,	6	5
170	Role of Cys-Cys Disulfide Bond on the Structure and Activity of α-Conotoxins at Human Neuronal Nicotinic Acetylcholine Receptors. *ACS Omega*, **2017**, 2, 4621-4631	3.9	7
169	In vivo and in vitro testing of native α-conotoxins from the injected venom of Conus purpurascens. *Neuropharmacology*, **2017**, 127, 253-259	5.5	7
168	Backbone cyclization of analgesic conotoxin GeXIVA facilitates direct folding of the ribbon isomer. *Journal of Biological Chemistry*, **2017**, 292, 17101-17112	5.4	9
167	Interaction of Synthetic Human SLURP-1 with the Nicotinic Acetylcholine Receptors. *Scientific Reports*, **2017**, 7, 16606	4.9	16
166	Peptide grafted and self-assembled poly(γ-glutamic acid)-phenylalanine nanoparticles targeting camptothecin to glioma. *Nanomedicine*, **2017**, 12, 1661-1674	5.6	8
165	Identification of a Novel ω-Conotoxin Reveals an Unusual and Potent Inhibitor of the Human α9α10 Nicotinic Acetylcholine Receptor. *Marine Drugs*, **2017**, 15,	6	13
164	Trastuzumab-grafted PAMAM dendrimers for the selective delivery of anticancer drugs to HER2-positive breast cancer. *Scientific Reports*, **2016**, 6, 23179	4.9	112
163	Mechanism of direct Cav2.2 channel block by the δ-opioid receptor agonist U50488H. *Neuropharmacology*, **2016**, 109, 49-58	5.5	4
162	Modulation of human Nav1.7 channel gating by synthetic β-scorpion toxin OD1 and its analogs. *Channels*, **2016**, 10, 139-47	3	11
161	Cyclic RGDfK Peptide Functionalized Polymeric Nanocarriers for Targeting Gemcitabine to Ovarian Cancer Cells. *Molecular Pharmaceutics*, **2016**, 13, 1491-500	5.6	32

160	Voltage-Gated R-Type Calcium Channel Inhibition via Human □ □ and □pioid Receptors Is Voltage-Independently Mediated by G□Protein Subunits. *Molecular Pharmacology*, **2016**, 89, 187-96	4.3	13
159	Store-Operated Ca Entry (SOCE) and Purinergic Receptor-Mediated Ca Homeostasis in Murine bv2 Microglia Cells: Early Cellular Responses to ATP-Mediated Microglia Activation. *Frontiers in Molecular Neuroscience*, **2016**, 9, 111	6.1	20
158	Effects of linker sequence modifications on the structure, stability, and biological activity of a cyclic □conotoxin. *Biopolymers*, **2016**, 106, 864-875	2.2	7
157	Structure-Activity Studies of Cysteine-Rich □Conotoxins that Inhibit High-Voltage-Activated Calcium Channels via GABA(B) Receptor Activation Reveal a Minimal Functional Motif. *Angewandte Chemie - International Edition*, **2016**, 55, 4692-6	16.4	46
156	Formulation and dosage of therapeutic nanosuspension for active targeting of docetaxel (WO 2014210485A1). *Expert Opinion on Therapeutic Patents*, **2016**, 26, 745-9	6.8	7
155	Improving Efficacy, Oral Bioavailability, and Delivery of Paclitaxel Using Protein-Grafted Solid Lipid Nanoparticles. *Molecular Pharmaceutics*, **2016**, 13, 3903-3912	5.6	68
154	Key Structural Determinants in the Agonist Binding Loops of Human □ and □ Nicotinic Acetylcholine Receptor Subunits Contribute to □□ Subtype Selectivity of □Conotoxins. *Journal of Biological Chemistry*, **2016**, 291, 23779-23792	5.4	12
153	Alanine scan of □conotoxin RegIIA reveals a selective □□ nicotinic acetylcholine receptor antagonist. *Journal of Biological Chemistry*, **2015**, 290, 1039-48	5.4	31
152	□Conotoxin dendrimers have enhanced potency and selectivity for homomeric nicotinic acetylcholine receptors. *Journal of the American Chemical Society*, **2015**, 137, 3209-12	16.4	28
151	Cyclic-RGDfK peptide conjugated succinoyl-TPGS nanomicelles for targeted delivery of docetaxel to integrin receptor over-expressing angiogenic tumours. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2015**, 11, 1511-20	6	47
150	Molecular Basis for Differential Sensitivity of □Conotoxin RegIIA at Rat and Human Neuronal Nicotinic Acetylcholine Receptors. *Molecular Pharmacology*, **2015**, 88, 993-1001	4.3	16
149	A Distinct Functional Site in □Neurotoxins: Novel Antagonists of Nicotinic Acetylcholine Receptors from Snake Venom. *ACS Chemical Biology*, **2015**, 10, 2805-15	4.9	19
148	Bombesin-conjugated nanoparticles improve the cytotoxic efficacy of docetaxel against gastrin-releasing but androgen-independent prostate cancer. *Nanomedicine*, **2015**, 10, 2847-59	5.6	28
147	Inhibition of cholinergic pathways in Drosophila melanogaster by □conotoxins. *FASEB Journal*, **2015**, 29, 1011-8	0.9	8
146	Conotoxin □-GeXXA utilizes a novel strategy to antagonize nicotinic acetylcholine receptors. *Scientific Reports*, **2015**, 5, 14261	4.9	25
145	Less is More: Design of a Highly Stable Disulfide-Deleted Mutant of Analgesic Cyclic □Conotoxin Vc1.1. *Scientific Reports*, **2015**, 5, 13264	4.9	35
144	Transforming conotoxins into cyclotides: Backbone cyclization of P-superfamily conotoxins. *Biopolymers*, **2015**, 104, 682-92	2.2	10
143	Biomedical applications of trastuzumab: as a therapeutic agent and a targeting ligand. *Medicinal Research Reviews*, **2015**, 35, 849-76	14.4	28

142	Cyclic-RGDfK-Directed Docetaxel Loaded Nanomicelles for Angiogenic Tumor Targeting. *Methods in Pharmacology and Toxicology*, **2015**, 157-168	1.1	1
141	CHAPTER 4:Venoms-Based Drug Discovery: Bioassays, Electrophysiology, High-Throughput Screens and Target Identification. *RSC Drug Discovery Series*, **2015**, 97-128	0.6	2
140	Novel mechanism of voltage-gated N-type (Cav2.2) calcium channel inhibition revealed through conotoxin Vc1.1 activation of the GABA(B) receptor. *Molecular Pharmacology*, **2015**, 87, 240-50	4.3	33
139	Effects of arginine 10 to lysine substitution on conotoxin CVIE and CVIF block of Cav2.2 channels. *British Journal of Pharmacology*, **2014**, 171, 3313-27	8.6	5
138	Hydrophobic residues at position 10 of conotoxin PnIA influence subtype selectivity between 7 and 2 neuronal nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2014**, 91, 534-42	6	17
137	Differential Cav2.1 and Cav2.3 channel inhibition by baclofen and conotoxin Vc1.1 via GABAB receptor activation. *Journal of General Physiology*, **2014**, 143, 465-79	3.4	36
136	Isolation, synthesis and characterization of TRTX-Cc1a, a novel tarantula venom peptide that selectively targets L-type Cav channels. *Biochemical Pharmacology*, **2014**, 89, 276-86	6	13
135	Dicarba analogues of conotoxin RgIA. Structure, stability, and activity at potential pain targets. *Journal of Medicinal Chemistry*, **2014**, 57, 9933-44	8.3	47
134	Mechanisms of conotoxin inhibition of N-type (Ca(v)2.2) calcium channels. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 1619-28	3.8	60
133	Dicarba conotoxin Vc1.1 analogues with differential selectivity for nicotinic acetylcholine and GABAB receptors. *ACS Chemical Biology*, **2013**, 8, 1815-21	4.9	54
132	Kv3.1 channels stimulate adult neural precursor cell proliferation and neuronal differentiation. *Journal of Physiology*, **2013**, 591, 2579-91	3.9	11
131	Identifying key amino acid residues that affect conotoxin AuIB inhibition of 4 nicotinic acetylcholine receptors. *Journal of Biological Chemistry*, **2013**, 288, 34428-42	5.4	40
130	Isolation and characterization of conotoxin LsIA with potent activity at nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2013**, 86, 791-9	6	42
129	Determination of the conotoxin Vc1.1 binding site on the 9 10 nicotinic acetylcholine receptor. *Journal of Medicinal Chemistry*, **2013**, 56, 3557-67	8.3	68
128	Chemical engineering and structural and pharmacological characterization of the scorpion toxin OD1. *ACS Chemical Biology*, **2013**, 8, 1215-22	4.9	41
127	Are nicotinic acetylcholine receptors coupled to G proteins?. *BioEssays*, **2013**, 35, 1025-34	4.1	52
126	RegIIA: an 4/7-conotoxin from the venom of Conus regius that potently blocks 4 nAChRs. *Biochemical Pharmacology*, **2012**, 83, 419-26	6	40
125	Isolation, characterization and total regioselective synthesis of the novel O-conotoxin MfVIA from Conus magnificus that targets voltage-gated sodium channels. *Biochemical Pharmacology*, **2012**, 84, 540-8	6	48

124	Intrathecal Conotoxins Vc1.1, AuIB and MII acting on distinct nicotinic receptor subtypes reverse signs of neuropathic pain. *Neuropharmacology*, **2012**, 62, 2202-7	5.5	47
123	Analgesic conotoxins: block and G protein-coupled receptor modulation of N-type (Ca(V) 2.2) calcium channels. *British Journal of Pharmacology*, **2012**, 166, 486-500	8.6	62
122	Biophysical properties of Na(v) 1.8/Na(v) 1.2 chimeras and inhibition by O-conotoxin MrVIB. *British Journal of Pharmacology*, **2012**, 166, 2148-60	8.6	11
121	Aminobutyric acid type B (GABAB) receptor expression is needed for inhibition of N-type (Cav2.2) calcium channels by analgesic conotoxins. *Journal of Biological Chemistry*, **2012**, 287, 23948-57	5.4	44
120	Conotoxins targeting neuronal voltage-gated sodium channel subtypes: potential analgesics?. *Toxins*, **2012**, 4, 1236-60	4.9	48
119	Localization of Nav 1.7 in the normal and injured rodent olfactory system indicates a critical role in olfaction, pheromone sensing and immune function. *Channels*, **2012**, 6, 103-10	3	14
118	Stabilization of conotoxin AuIB: influences of disulfide connectivity and backbone cyclization. *Antioxidants and Redox Signaling*, **2011**, 14, 87-95	8.4	34
117	Effects of cyclization on stability, structure, and activity of conotoxin RgIA at the 910 nicotinic acetylcholine receptor and GABA(B) receptor. *Journal of Medicinal Chemistry*, **2011**, 54, 6984-92	8.3	49
116	A novel mechanism of inhibition of high-voltage activated calcium channels by conotoxins contributes to relief of nerve injury-induced neuropathic pain. *Pain*, **2011**, 152, 259-266	8	69
115	Total synthesis of the analgesic conotoxin MrVIB through selenocysteine-assisted folding. *Angewandte Chemie - International Edition*, **2011**, 50, 6527-9	16.4	79
114	Regulation of voltage-gated ion channels in excitable cells by the ubiquitin ligases Nedd4 and Nedd4-2. *Channels*, **2011**, 5, 79-88	3	27
113	Embryonic toxin expression in the cone snail Conus victoriae: primed to kill or divergent function?. *Journal of Biological Chemistry*, **2011**, 286, 22546-57	5.4	26
112	Structure and activity of alpha-conotoxin PeIA at nicotinic acetylcholine receptor subtypes and GABA(B) receptor-coupled N-type calcium channels. *Journal of Biological Chemistry*, **2011**, 286, 10233-7	5.4	33
111	Purification of immature neuronal cells from neural stem cell progeny. *PLoS ONE*, **2011**, 6, e20941	3.7	30
110	Physiological roles of ion channels in adult neural stem cells and their progeny. *Journal of Neurochemistry*, **2010**, 114, 946-59	6	33
109	Analgesic (omega)-conotoxins CVIE and CVIF selectively and voltage-dependently block recombinant and native N-type calcium channels. *Molecular Pharmacology*, **2010**, 77, 139-48	4.3	50
108	Alpha-conotoxin AuIB isomers exhibit distinct inhibitory mechanisms and differential sensitivity to stoichiometry of alpha3beta4 nicotinic acetylcholine receptors. *Journal of Biological Chemistry*, **2010**, 285, 22254-63	5.4	56
107	Coordinate regulation of stretch-activated channels and myogenic tone by polycystins 1 and 2. *Channels*, **2010**, 4, 1-2	3	15

106	Analgesic α-conotoxins Vc1.1 and RgIA inhibit N-type calcium channels in sensory neurons of α9 nicotinic receptor knockout mice. *Channels*, **2010**, 4, 51-4	3	66
105	Solving the alpha-conotoxin folding problem: efficient selenium-directed on-resin generation of more potent and stable nicotinic acetylcholine receptor antagonists. *Journal of the American Chemical Society*, **2010**, 132, 3514-22	16.4	114
104	The engineering of an orally active conotoxin for the treatment of neuropathic pain. *Angewandte Chemie - International Edition*, **2010**, 49, 6545-8	16.4	246
103	Inhibition of neuronal nicotinic acetylcholine receptor subtypes by alpha-Conotoxin GID and analogues. *Journal of Biological Chemistry*, **2009**, 284, 4944-51	5.4	34
102	Scanning mutagenesis of alpha-conotoxin Vc1.1 reveals residues crucial for activity at the alpha9alpha10 nicotinic acetylcholine receptor. *Journal of Biological Chemistry*, **2009**, 284, 20275-84	5.4	62
101	Reactive oxygen species modulate neuronal excitability in rat intrinsic cardiac ganglia. *Autonomic Neuroscience: Basic and Clinical*, **2009**, 150, 45-52	2.4	17
100	Chemical synthesis and folding of APETx2, a potent and selective inhibitor of acid sensing ion channel 3. *Toxicon*, **2009**, 54, 56-61	2.8	36
99	The three-dimensional structure of the analgesic alpha-conotoxin, RgIA. *FEBS Letters*, **2008**, 582, 597-602	3.8	28
98	K(ir) and K(v) channels regulate electrical properties and proliferation of adult neural precursor cells. *Molecular and Cellular Neurosciences*, **2008**, 37, 284-97	4.8	54
97	omega-Conotoxin inhibition of excitatory synaptic transmission evoked by dorsal root stimulation in rat superficial dorsal horn. *Neuropharmacology*, **2008**, 55, 860-4	5.5	24
96	Conotoxin modulation of voltage-gated sodium channels. *International Journal of Biochemistry and Cell Biology*, **2008**, 40, 2363-8	5.6	47
95	Molecular engineering of conotoxins: the importance of loop size to alpha-conotoxin structure and function. *Journal of Medicinal Chemistry*, **2008**, 51, 5575-84	8.3	28
94	Neuronally micro-conotoxins from Conus striatus utilize an alpha-helical motif to target mammalian sodium channels. *Journal of Biological Chemistry*, **2008**, 283, 21621-8	5.4	36
93	Regulation of the voltage-gated K(+) channels KCNQ2/3 and KCNQ3/5 by serum- and glucocorticoid-regulated kinase-1. *American Journal of Physiology - Cell Physiology*, **2008**, 295, C73-80	5.4	22
92	The doublecortin-expressing population in the developing and adult brain contains multipotential precursors in addition to neuronal-lineage cells. *Journal of Neuroscience*, **2007**, 27, 3734-42	6.6	116
91	Chemical modification of conotoxins to improve stability and activity. *ACS Chemical Biology*, **2007**, 2, 457-68	4.9	79
90	Structure of alpha-conotoxin BuIA: influences of disulfide connectivity on structural dynamics. *BMC Structural Biology*, **2007**, 7, 28	2.7	35
89	Omega-conotoxin CVIB differentially inhibits native and recombinant N- and P/Q-type calcium channels. *European Journal of Neuroscience*, **2007**, 25, 435-44	3.5	26

88	NEDD4-2 as a potential candidate susceptibility gene for epileptic photosensitivity. *Genes, Brain and Behavior*, **2007**, 6, 750-5	3.6	46
87	Distinct activities of novel neurotoxins from Australian venomous snakes for nicotinic acetylcholine receptors. *Cellular and Molecular Life Sciences*, **2007**, 64, 2829-40	10.3	18
86	Liposome reconstitution and modulation of recombinant N-methyl-D-aspartate receptor channels by membrane stretch. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 1540-5	11.5	65
85	Isolation and structure-activity of mu-conotoxin TIIIA, a potent inhibitor of tetrodotoxin-sensitive voltage-gated sodium channels. *Molecular Pharmacology*, **2007**, 71, 676-85	4.3	57
84	Are alpha9alpha10 nicotinic acetylcholine receptors a pain target for alpha-conotoxins?. *Molecular Pharmacology*, **2007**, 72, 1406-10	4.3	96
83	Regulation of the voltage-gated K(+) channels KCNQ2/3 and KCNQ3/5 by ubiquitination. Novel role for Nedd4-2. *Journal of Biological Chemistry*, **2007**, 282, 12135-42	5.4	70
82	Purinergic receptor activation inhibits mitogen-stimulated proliferation in primary neurospheres from the adult mouse subventricular zone. *Molecular and Cellular Neurosciences*, **2007**, 35, 535-48	4.8	38
81	WT1 interacts with the splicing protein RBM4 and regulates its ability to modulate alternative splicing in vivo. *Experimental Cell Research*, **2006**, 312, 3379-88	4.2	42
80	muO-conotoxin MrVIB selectively blocks Nav1.8 sensory neuron specific sodium channels and chronic pain behavior without motor deficits. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 17030-5	11.5	161
79	Alpha-selenoconotoxins, a new class of potent alpha7 neuronal nicotinic receptor antagonists. *Journal of Biological Chemistry*, **2006**, 281, 14136-43	5.4	155
78	The synthesis, structural characterization, and receptor specificity of the alpha-conotoxin Vc1.1. *Journal of Biological Chemistry*, **2006**, 281, 23254-63	5.4	111
77	Identification of a novel class of nicotinic receptor antagonists: dimeric conotoxins VxXIIA, VxXIIB, and VxXIIC from Conus vexillum. *Journal of Biological Chemistry*, **2006**, 281, 24745-55	5.4	63
76	Neuronal voltage-gated sodium channel subtypes: key roles in inflammatory and neuropathic pain. *International Journal of Biochemistry and Cell Biology*, **2006**, 38, 2005-10	5.6	41
75	NMDA receptor subunit-dependent modulation by conantokin-G and Ala7-conantokin-G. *Journal of Neurochemistry*, **2006**, 96, 283-91	6	17
74	Mutations within the selectivity filter of the NMDA receptor-channel influence voltage dependent block by 5-hydroxytryptamine. *British Journal of Pharmacology*, **2006**, 149, 163-9	8.6	4
73	Intravenous anaesthetics inhibit nicotinic acetylcholine receptor-mediated currents and Ca2+ transients in rat intracardiac ganglion neurons. *British Journal of Pharmacology*, **2005**, 144, 98-107	8.6	27
72	Voltage-dependent inhibition of recombinant NMDA receptor-mediated currents by 5-hydroxytryptamine. *British Journal of Pharmacology*, **2005**, 144, 323-30	8.6	6
71	Intravenous anaesthetics inhibit nicotinic acetylcholine receptor-mediated currents and Ca2+ transients in rat intracardiac ganglion neurons. *British Journal of Pharmacology*, **2005**, 144, 144-144	8.6	78

70	Developmental changes in expression of GABAA receptor-channels in rat intrinsic cardiac ganglion neurones. *Journal of Physiology*, **2005**, 564, 465-74	3.9	8
69	Selective modulation of neuronal nicotinic acetylcholine receptor channel subunits by Go-protein subunits. *Journal of Neuroscience*, **2005**, 25, 3571-7	6.6	33
68	Engineering stable peptide toxins by means of backbone cyclization: stabilization of the alpha-conotoxin MII. *Proceedings of the National Academy of Sciences of the United States of America* , **2005**, 102, 13767-72	11.5	200
67	Tertiapin-Q blocks recombinant and native large conductance K+ channels in a use-dependent manner. *Journal of Pharmacology and Experimental Therapeutics*, **2005**, 314, 1353-61	4.7	73
66	Structures of muO-conotoxins from Conus marmoreus. I nhibitors of tetrodotoxin (TTX)-sensitive and TTX-resistant sodium channels in mammalian sensory neurons. *Journal of Biological Chemistry*, **2004**, 279, 25774-82	5.4	72
65	Overexpressed Ca(v)beta3 inhibits N-type (Cav2.2) calcium channel currents through a hyperpolarizing shift of ultra-slow and closed-state inactivation. *Journal of General Physiology*, **2004** , 123, 401-16	3.4	33
64	Adenosine triphosphate acts as both a competitive antagonist and a positive allosteric modulator at recombinant N-methyl-D-aspartate receptors. *Molecular Pharmacology*, **2004**, 65, 1386-96	4.3	27
63	The alpha2delta auxiliary subunit reduces affinity of omega-conotoxins for recombinant N-type (Cav2.2) calcium channels. *Journal of Biological Chemistry*, **2004**, 279, 34705-14	5.4	67
62	Regulation of neuronal voltage-gated sodium channels by the ubiquitin-protein ligases Nedd4 and Nedd4-2. *Journal of Biological Chemistry*, **2004**, 279, 28930-5	5.4	118
61	Auxiliary subunit regulation of high-voltage activated calcium channels expressed in mammalian cells. *European Journal of Neuroscience*, **2004**, 20, 1-13	3.5	106
60	Functional maturation of isolated neural progenitor cells from the adult rat hippocampus. *European Journal of Neuroscience*, **2004**, 19, 2410-20	3.5	51
59	Potassium channels and membrane potential in the modulation of intracellular calcium in vascular endothelial cells. *Journal of Cardiovascular Electrophysiology*, **2004**, 15, 598-610	2.7	42
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1	Analgesic Ɛonotoxins modulate GIRK1/2 channels via GABABreceptor activation and reduce neuroexcitability		1