

Graham M Nicholson

List of Publications by Year in descending order

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97
all docs

97
docs citations

97
times ranked

2676
citing authors

#	ARTICLE	IF	CITATIONS
1	Label-Free, Real-Time Phospholipase-A Isoform Assay. ACS Biomaterials Science and Engineering, 2020, 6, 4714-4721.	5.2	5
2	An Integrated Proteomic and Transcriptomic Analysis Reveals the Venom Complexity of the Bullet Ant <i>Paraponera clavata</i> . Toxins, 2020, 12, 324.	3.4	18
3	Structural venomics reveals evolution of a complex venom by duplication and diversification of an ancient peptide-encoding gene. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 11399-11408.	7.1	59
4	Venom Peptide Repertoire of the European Myrmicine Ant <i>Manica rubida</i> : Identification of Insecticidal Toxins. Journal of Proteome Research, 2020, 19, 1800-1811.	3.7	30
5	Structural characterization of protein toxins from Australian snake venoms using native mass spectrometry. Toxicon, 2019, 158, S43.	1.6	0
6	Evaluation of Chemical Strategies for Improving the Stability and Oral Toxicity of Insecticidal Peptides. Biomedicines, 2018, 6, 90.	3.2	7
7	Combined Peptidomic and Proteomic Analysis of Electrically Stimulated and Manually Dissected Venom from the South American Bullet Ant <i>Paraponera clavata</i> . Journal of Proteome Research, 2017, 16, 1339-1351.	3.7	22
8	Lethal effects of an insecticidal spider venom peptide involve positive allosteric modulation of insect nicotinic acetylcholine receptors. Neuropharmacology, 2017, 127, 224-242.	4.1	16
9	Insect-Active Toxins with Promiscuous Pharmacology from the African Theraphosid Spider <i>Monocentropus balfouri</i> . Toxins, 2017, 9, 155.	3.4	10
10	The Biochemical Toxin Arsenal from Ant Venoms. Toxins, 2016, 8, 30.	3.4	113
11	Nerve muscle activation by rotating permanent magnet configurations. Journal of Physiology, 2016, 594, 1799-1819.	2.9	9
12	Molecular basis of the remarkable species selectivity of an insecticidal sodium channel toxin from the African spider <i>Augacephalus ezendami</i> . Scientific Reports, 2016, 6, 29538.	3.3	25
13	Reply from Peter A. Watterson and Graham M. Nicholson. Journal of Physiology, 2016, 594, 3843-3844.	2.9	1
14	Comparisons of Protein and Peptide Complexity in Poneroid and Formicoid Ant Venoms. Journal of Proteome Research, 2016, 15, 3039-3054.	3.7	20
15	Isolation of two insecticidal toxins from venom of the Australian theraphosid spider <i>Coremiocnemis tropix</i> . Toxicon, 2016, 123, 62-70.	1.6	14
16	Weaponization of a Hormone: Convergent Recruitment of Hyperglycemic Hormone into the Venom of Arthropod Predators. Structure, 2015, 23, 1283-1292.	3.3	66
17	The complexity and structural diversity of ant venom peptidomes is revealed by mass spectrometry profiling. Rapid Communications in Mass Spectrometry, 2015, 29, 385-396.	1.5	32
18	The insecticidal spider toxin <i>SFI</i> 1 is a knottin peptide that blocks the pore of insect voltage-gated sodium channels via a large hairpin loop. FEBS Journal, 2015, 282, 904-920.	4.7	34

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19	Diversity of peptide toxins from stinging ant venoms. <i>Toxicon</i> , 2014, 92, 166-178.	1.6	92
20	A distinct sodium channel voltage-sensor locus determines insect selectivity of the spider toxin Dc1a. <i>Nature Communications</i> , 2014, 5, 4350.	12.8	63
21	Elucidation of the unexplored biodiversity of ant venom peptidomes via MALDI-TOF mass spectrometry and its application for chemotaxonomy. <i>Journal of Proteomics</i> , 2014, 105, 217-231.	2.4	28
22	Venom toxicity and composition in three <i>Pseudomyrmex</i> ant species having different nesting modes. <i>Toxicon</i> , 2014, 88, 67-76.	1.6	19
23	Efficacy of Australian red-back spider (<i>Latrodectus hasselti</i>) antivenom in the treatment of clinical envenomation by the cupboard spider <i>Steatoda capensis</i> (Theridiidae). <i>Toxicon</i> , 2014, 86, 68-78.	1.6	7
24	Spider Peptides. , 2013, , 461-472.		3
25	The insecticidal neurotoxin Aps III is an atypical knottin peptide that potently blocks insect voltage-gated sodium channels. <i>Biochemical Pharmacology</i> , 2013, 85, 1542-1554.	4.4	33
26	Unravelling the complex venom landscapes of lethal Australian funnel-web spiders (Hexathelidae: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	2.4	73
27	Characterization of monomeric and multimeric snake neurotoxins and other bioactive proteins from the venom of the lethal Australian common copperhead (<i>Austrelaps superbus</i>). <i>Biochemical Pharmacology</i> , 2013, 85, 1555-1573.	4.4	10
28	Do Vicinal Disulfide Bridges Mediate Functionally Important Redox Transformations in Proteins?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1976-1980.	5.4	16
29	Pharmacological characterization of α -elapitoxin-A12a from the venom of the Australian pygmy copperhead (<i>Austrelaps labialis</i>): An atypical long-chain α -neurotoxin with only weak affinity for α 7 nicotinic receptors. <i>Biochemical Pharmacology</i> , 2012, 84, 851-863.	4.4	13
30	Spider-Venom Peptides as Bioinsecticides. <i>Toxins</i> , 2012, 4, 191-227.	3.4	190
31	Cloning and activity of a novel α -latrotoxin from red-back spider venom. <i>Biochemical Pharmacology</i> , 2012, 83, 170-183.	4.4	38
32	Spider-venom peptides that target voltage-gated sodium channels: Pharmacological tools and potential therapeutic leads. <i>Toxicon</i> , 2012, 60, 478-491.	1.6	202
33	Identification of presynaptic neurotoxin complexes in the venoms of three Australian copperheads (<i>Austrelaps</i> spp.) and the efficacy of tiger snake antivenom to prevent or reverse neurotoxicity. <i>Toxicon</i> , 2011, 58, 439-452.	1.6	6
34	ArachnoServer 2.0, an updated online resource for spider toxin sequences and structures. <i>Nucleic Acids Research</i> , 2011, 39, D653-D657.	14.5	159
35	α -Elapitoxin-Aa2a, a long-chain snake α -neurotoxin with potent actions on muscle (α 1) α 3 nicotinic receptors, lacks the classical high affinity for neuronal α 7 nicotinic receptors. <i>Biochemical Pharmacology</i> , 2011, 81, 314-325.	4.4	16
36	Unique scorpion toxin with a putative ancestral fold provides insight into evolution of the inhibitor cystine knot motif. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 10478-10483.	7.1	96

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37	A Novel Family of Insect-Selective Peptide Neurotoxins Targeting Insect Large-Conductance Calcium-Activated K ⁺ Channels Isolated from the Venom of the Theraphosid Spider <i>Eucratoscelus constrictus</i> . <i>Molecular Pharmacology</i> , 2011, 80, 1-13.	2.3	21
38	Characterisation of the heterotrimeric presynaptic phospholipase A2 neurotoxin complex from the venom of the common death adder (<i>Acanthopis antarcticus</i>). <i>Biochemical Pharmacology</i> , 2010, 80, 277-287.	4.4	22
39	Presence of presynaptic neurotoxin complexes in the venoms of Australo-Papuan death adders (<i>Acanthopis</i> spp.). <i>Toxicon</i> , 2010, 55, 1171-1180.	1.6	9
40	Direct Visualization of Disulfide Bonds through Diselenide Proxies Using ⁷⁷ Se NMR Spectroscopy. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 9312-9314.	13.8	63
41	Synthesis, Solution Structure, and Phylum Selectivity of a Spider $\hat{\gamma}$ -Toxin That Slows Inactivation of Specific Voltage-gated Sodium Channel Subtypes. <i>Journal of Biological Chemistry</i> , 2009, 284, 24568-24582.	3.4	32
42	Venomics: unravelling the complexity of animal venoms with mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2008, 43, 279-295.	1.6	138
43	The Janus-faced atracotoxins are specific blockers of invertebrate K _{Ca} channels. <i>FEBS Journal</i> , 2008, 275, 4045-4059.	4.7	38
44	A rational nomenclature for naming peptide toxins from spiders and other venomous animals. <i>Toxicon</i> , 2008, 52, 264-276.	1.6	276
45	Intersexual variations in Northern (<i>Missulena pruinos</i>) and Eastern (<i>M. bradleyi</i>) mouse spider venom. <i>Toxicon</i> , 2008, 51, 1167-1177.	1.6	41
46	Peptide toxins that selectively target insect Na _V and Ca _V channels. <i>Channels</i> , 2008, 2, 100-116.	2.8	95
47	Insect-selective spider toxins targeting voltage-gated sodium channels. <i>Toxicon</i> , 2007, 49, 490-512.	1.6	81
48	Fighting the global pest problem: Preface to the special <i>Toxicon</i> issue on insecticidal toxins and their potential for insect pest control. <i>Toxicon</i> , 2007, 49, 413-422.	1.6	99
49	CSTX-1, a toxin from the venom of the hunting spider <i>Cupiennius salei</i> , is a selective blocker of L-type calcium channels in mammalian neurons. <i>Neuropharmacology</i> , 2007, 52, 1650-1662.	4.1	35
50	The $\hat{\gamma}$ -atracotoxins: Selective blockers of insect M-LVA and HVA calcium channels. <i>Biochemical Pharmacology</i> , 2007, 74, 623-638.	4.4	63
51	Arachnid toxinology in Australia: From clinical toxicology to potential applications. <i>Toxicon</i> , 2006, 48, 872-898.	1.6	47
52	Ciguatoxins: Cyclic Polyether Modulators of Voltage-gated Ion Channel Function. <i>Marine Drugs</i> , 2006, 4, 82-118.	4.6	115
53	Spider Venom Peptides. , 2006, , 369-379.		3
54	Block of voltage-gated potassium channels by Pacific ciguatoxin-1 contributes to increased neuronal excitability in rat sensory neurons. <i>Toxicology and Applied Pharmacology</i> , 2005, 204, 175-186.	2.8	75

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55	Spider Neurotoxins Targeting Voltage-Gated Sodium Channels. <i>Toxin Reviews</i> , 2005, 24, 313-343.	3.4	4
56	Discovery of an MIT-like atracotoxin family: Spider venom peptides that share sequence homology but not pharmacological properties with AVIT family proteins. <i>Peptides</i> , 2005, 26, 2412-2426.	2.4	41
57	Neuroprotectant effects of iso-osmolar d-mannitol to prevent Pacific ciguatoxin-1 induced alterations in neuronal excitability: A comparison with other osmotic agents and free radical scavengers. <i>Neuropharmacology</i> , 2005, 49, 669-686.	4.1	33
58	SPider Neurotoxins Targeting Voltage-Gated Sodium Channels. <i>Toxin Reviews</i> , 2005, 24, 315-345.	3.4	7
59	TIME COURSE AND REGIONAL DISTRIBUTION OF CORTICAL CHANGES DURING ACUTE ALCOHOL INGESTION. <i>International Journal of Neuroscience</i> , 2004, 114, 863-878.	1.6	9
60	Structure and function of Î-glycyl-a atracotoxins: lethal neurotoxins targeting the voltage-gated sodium channel. <i>Toxicon</i> , 2004, 43, 587-599.	1.6	79
61	Synthesis and Characterization of Î-glycyl-a Atracotoxin-Ar1a, the Lethal Neurotoxin from Venom of the Sydney Funnel-Web Spider (<i>Atrax robustus</i>)â€. <i>Biochemistry</i> , 2003, 42, 12933-12940.	2.5	24
62	Isolation of Î-glycyl-a missulenatoxin-Mb1a, the major vertebrate-active spider Î-glycyl-a toxin from the venom of <i>Missulena bradleyi</i> (Actinopodidae)1. <i>FEBS Letters</i> , 2003, 554, 211-218.	2.8	31
63	Antivenoms for the Treatment of Spider Envenomation. <i>Toxin Reviews</i> , 2003, 22, 35-59.	1.5	11
64	Cross-reactivity of Sydney funnel-web spider antivenom: neutralization of the in vitro toxicity of other Australian funnel-web (<i>Atrax</i> and <i>Hadronyche</i>) spider venoms. <i>Toxicon</i> , 2002, 40, 259-266.	1.6	42
65	Clinical and in vitro evidence for the efficacy of Australian red-back spider (<i>Latrodectus hasselti</i>) antivenom in the treatment of envenomation by a Cupboard spider (<i>Steatoda grossa</i>). <i>Toxicon</i> , 2002, 40, 767-775.	1.6	42
66	Differential blockade of neuronal voltage-gated Na ⁺ and K ⁺ channels by antidepressant drugs. <i>European Journal of Pharmacology</i> , 2002, 452, 35-48.	3.5	41
67	Variations in receptor site-3 on rat brain and insect sodium channels highlighted by binding of a funnel-web spider Î-glycyl-a atracotoxin. <i>FEBS Journal</i> , 2002, 269, 1500-1510.	0.2	31
68	Spiders of medical importance in the Asia-Pacific: Atracotoxin, latrotoxin and related spider neurotoxins. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2002, 29, 785-794.	1.9	67
69	Discovery and Structure of a Potent and Highly Specific Blocker of Insect Calcium Channels. <i>Journal of Biological Chemistry</i> , 2001, 276, 40306-40312.	3.4	79
70	Red-back spider (<i>Latrodectus hasselti</i>) antivenom prevents the toxicity of widow spider venoms. <i>Annals of Emergency Medicine</i> , 2001, 37, 154-160.	0.6	55
71	Defensin-like peptide-2 from platypus venom: member of a class of peptides with a distinct structural fold. <i>Biochemical Journal</i> , 2000, 348, 649.	3.7	35
72	Scorpion Î± and Î±-like toxins differentially interact with sodium channels in mammalian CNS and periphery. <i>European Journal of Neuroscience</i> , 2000, 12, 2823-2832.	2.6	46

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73	Neurotoxic activity of venom from the Australian Eastern mouse spider (<i>Missulena bradleyi</i>) involves modulation of sodium channel gating. <i>British Journal of Pharmacology</i> , 2000, 130, 1817-1824.	5.4	44
74	Isolation of a funnel-web spider polypeptide with homology to mamba intestinal toxin 1 and the embryonic head inducer Dickkopf-1. <i>Toxicon</i> , 2000, 38, 429-442.	1.6	46
75	Isolation and pharmacological characterisation of $\hat{\nu}$ -atracotoxin-Hv1b, a vertebrate-selective sodium channel toxin. <i>FEBS Letters</i> , 2000, 470, 293-299.	2.8	56
76	Discovery and characterization of a family of insecticidal neurotoxins with a rare vicinal disulfide bridge. <i>Nature Structural Biology</i> , 2000, 7, 505-513.	9.7	194
77	Spider toxins: A new group of potassium channel modulators. <i>Journal of Computer - Aided Molecular Design</i> , 1999, 15/16, 61-69.	1.0	0
78	Solution structure of a defensin-like peptide from platypus venom. <i>Biochemical Journal</i> , 1999, 341, 785-794.	3.7	57
79	Solution structure of a defensin-like peptide from platypus venom. <i>Biochemical Journal</i> , 1999, 341, 785.	3.7	28
80	Characterisation of the effects of robustoxin, the lethal neurotoxin from the Sydney funnel-web spider <i>Atrax robustus</i> , on sodium channel activation and inactivation. <i>Pflugers Archiv European Journal of Physiology</i> , 1998, 436, 117-126.	2.8	76
81	$\hat{\nu}$ -Atracotoxins from Australian funnel-web spiders compete with scorpion $\hat{\nu}$ -toxin binding on both rat brain and insect sodium channels. <i>FEBS Letters</i> , 1998, 439, 246-252.	2.8	61
82	$\hat{\nu}$ -Atracotoxins from Australian Funnel-web Spiders Compete with Scorpion $\hat{\nu}$ -Toxin Binding but Differentially Modulate Alkaloid Toxin Activation of Voltage-gated Sodium Channels. <i>Journal of Biological Chemistry</i> , 1998, 273, 27076-27083.	3.4	44
83	Presynaptic snake $\hat{\nu}$ -neurotoxins produce tetanic fade and endplate potential run-down during neuromuscular blockade in mouse diaphragm. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1997, 356, 626-634.	3.0	13
84	Selective alteration of sodium channel gating by Australian funnel-web spider toxins. <i>Toxicon</i> , 1996, 34, 1443-1453.	1.6	53
85	Modification of sodium channel gating and kinetics by versutoxin from the Australian funnel-web spider <i>Hadronyche versuta</i> . <i>Pflugers Archiv European Journal of Physiology</i> , 1994, 428, 400-409.	2.8	73
86	Frequency-dependent neuromuscular blockade by textilotoxin in vivo. <i>Toxicon</i> , 1991, 29, 1266-1269.	1.6	5
87	Calcium-dependent actions of the convulsant barbiturate, CHEB, on transmitter release at the rat neuromuscular junction. <i>General Pharmacology</i> , 1990, 21, 741-746.	0.7	2
88	Differing actions of convulsant and nonconvulsant barbiturates: An electrophysiological study in the isolated spinal cord of the rat. <i>Neuropharmacology</i> , 1988, 27, 459-465.	4.1	10
89	Depolarizing actions of convulsant barbiturates on isolated rat dorsal root ganglion cells. <i>Neuroscience Letters</i> , 1988, 93, 330-335.	2.1	7
90	Effects of a depressant/convulsant pair of glutarimides on neuronal activity in the isolated spinal cord of the immature rat. <i>Neuropharmacology</i> , 1985, 24, 461-464.	4.1	4

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91	Strychnine-like action of the convulsant barbiturate, CHEB. <i>Neuropharmacology</i> , 1985, 24, 465-471.	4.1	3
92	Actions of pentobarbitone and derivatives with modified 5-butyl substituents on GABA and diazepam binding to rat brain synaptosomal membranes. <i>Neurochemical Research</i> , 1983, 8, 1337-1350.	3.3	16
93	Insulin Trafficking in a Glucose Responsive Engineered Human Liver Cell Line is Regulated by the Interaction of ATP-Sensitive Potassium Channels and Voltage-Gated Calcium Channels. , 0, , .		0