Irina Vetter

List of Publications by Citations

159 papers	6,377 citations	39 h-index	75 g-index
177 ext. papers	7,969 ext. citations	6.4 avg, IF	6.07 L-index

#	Paper	IF	Citations
159	A small-molecule inhibitor of the NLRP3 inflammasome for the treatment of inflammatory diseases. *Nature Medicine*, **2015**, 21, 248-55	50.5	1354
158	Methods Used to Evaluate Pain Behaviors in Rodents. *Frontiers in Molecular Neuroscience*, **2017**, 10, 284	6.1	319
157	Conus venom peptide pharmacology. *Pharmacological Reviews*, **2012**, 64, 259-98	22.5	314
156	Pathophysiology of Chemotherapy-Induced Peripheral Neuropathy. *Frontiers in Molecular Neuroscience*, **2017**, 10, 174	6.1	259
155	Evolution of separate predation- and defence-evoked venoms in carnivorous cone snails. *Nature Communications*, **2014**, 5, 3521	17.4	203
154	Venomics: a new paradigm for natural products-based drug discovery. *Amino Acids*, **2011**, 40, 15-28	3.5	152
153	Bayesian model predicts the response of axons to molecular gradients. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 10296-301	11.5	116
152	An animal model of oxaliplatin-induced cold allodynia reveals a crucial role for Nav1.6 in peripheral pain pathways. *Pain*, **2013**, 154, 1749-1757	8	111
151	Selenoether oxytocin analogues have analgesic properties in a mouse model of chronic abdominal pain. *Nature Communications*, **2014**, 5, 3165	17.4	95
150	Pharmacological characterisation of the highly Na1.7 selective spider venom peptide Pn3a. *Scientific Reports*, **2017**, 7, 40883	4.9	90
149	Ciguatoxins activate specific cold pain pathways to elicit burning pain from cooling. *EMBO Journal*, **2012**, 31, 3795-808	13	89
148	Na1.7 as a pain target - From gene to pharmacology. *Pharmacology & Therapeutics*, **2017**, 172, 73-100	13.9	83
147	The mu opioid agonist morphine modulates potentiation of capsaicin-evoked TRPV1 responses through a cyclic AMP-dependent protein kinase A pathway. *Molecular Pain*, **2006**, 2, 22	3.4	80
146	Conotoxin ImI incorporating stable cystathionine bridges maintains full potency and identical three-dimensional structure. *Journal of the American Chemical Society*, **2011**, 133, 15866-9	16.4	79
145	Characterization of endogenous calcium responses in neuronal cell lines. *Biochemical Pharmacology* , **2010**, 79, 908-20	6	77
144	Analgesic Effects of GpTx-1, PF-04856264 and CNV1014802 in a Mouse Model of NaV1.7-Mediated Pain. *Toxins*, **2016**, 8,	4.9	75
143	Therapeutic potential of cone snail venom peptides (conopeptides). *Current Topics in Medicinal Chemistry*, **2012**, 12, 1546-52	3	73

142	Seven novel modulators of the analgesic target NaV 1.7 uncovered using a high-throughput venom-based discovery approach. *British Journal of Pharmacology*, **2015**, 172, 2445-58	8.6	67
141	Differential evolution and neofunctionalization of snake venom metalloprotease domains. *Molecular and Cellular Proteomics*, **2013**, 12, 651-63	7.6	65
140	Golgi calcium pump secretory pathway calcium ATPase 1 (SPCA1) is a key regulator of insulin-like growth factor receptor (IGF1R) processing in the basal-like breast cancer cell line MDA-MB-231. *Journal of Biological Chemistry*, **2010**, 285, 37458-66	5.4	65
139	Identification and Characterization of ProTx-III [TRTX-Tp1a], a New Voltage-Gated Sodium Channel Inhibitor from Venom of the Tarantula Thrixopelma pruriens. *Molecular Pharmacology*, **2015**, 88, 291-303	4.3	60
138	The long non-coding RNA NEAT1 is responsive to neuronal activity and is associated with hyperexcitability states. *Scientific Reports*, **2017**, 7, 40127	4.9	59
137	No gain, no pain: NaV1.7 as an analgesic target. *ACS Chemical Neuroscience*, **2014**, 5, 749-51	5.7	59
136	Axon guidance by growth-rate modulation. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 5202-7	11.5	58
135	Interaction of Tarantula Venom Peptide ProTx-II with Lipid Membranes Is a Prerequisite for Its Inhibition of Human Voltage-gated Sodium Channel NaV1.7. *Journal of Biological Chemistry*, **2016**, 291, 17049-65	5.4	52
134	Ciguatera fish poisoning: a first epidemic in Germany highlights an increasing risk for European countries. *Toxicon*, **2014**, 91, 76-83	2.8	52
133	Rapid Extraction and Identification of Maitotoxin and Ciguatoxin-Like Toxins from Caribbean and Pacific Gambierdiscus Using a New Functional Bioassay. *PLoS ONE*, **2016**, 11, e0160006	3.7	52
132	Characterisation of Na(v) types endogenously expressed in human SH-SY5Y neuroblastoma cells. *Biochemical Pharmacology*, **2012**, 83, 1562-71	6	50
131	Neuronal cell lines as model dorsal root ganglion neurons: A transcriptomic comparison. *Molecular Pain*, **2016**, 12,	3.4	49
130	Isolation, characterization and total regioselective synthesis of the novel D-conotoxin MfVIA from Conus magnificus that targets voltage-gated sodium channels. *Biochemical Pharmacology*, **2012**, 84, 540-8	6	48
129	Multiple sodium channel isoforms mediate the pathological effects of Pacific ciguatoxin-1. *Scientific Reports*, **2017**, 7, 42810	4.9	47
128	Analgesic treatment of ciguatoxin-induced cold allodynia. *Pain*, **2013**, 154, 1999-2006	8	45
127	Expression and pharmacology of endogenous Cav channels in SH-SY5Y human neuroblastoma cells. *PLoS ONE*, **2013**, 8, e59293	3.7	44
126	Endogenous opioid analgesia in peripheral tissues and the clinical implications for pain control. *Therapeutics and Clinical Risk Management*, **2005**, 1, 279-97	2.9	44
125	Animal toxins - Nature's evolutionary-refined toolkit for basic research and drug discovery. *Biochemical Pharmacology*, **2020**, 181, 114096	6	43

124	Rapid, opioid-sensitive mechanisms involved in transient receptor potential vanilloid 1 sensitization. *Journal of Biological Chemistry*, **2008**, 283, 19540-50	5.4	43
123	Isolation and characterization of α-conotoxin LsIA with potent activity at nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2013**, 86, 791-9	6	42
122	A comprehensive portrait of the venom of the giant red bull ant, , reveals a hyperdiverse hymenopteran toxin gene family. *Science Advances*, **2018**, 4, eaau4640	14.3	42
121	Chemical engineering and structural and pharmacological characterization of the α-scorpion toxin OD1. *ACS Chemical Biology*, **2013**, 8, 1215-22	4.9	41
120	Sodium Channels and Venom Peptide Pharmacology. *Advances in Pharmacology*, **2017**, 79, 67-116	5.7	38
119	Transcriptomic and behavioural characterisation of a mouse model of burn pain identify the cholecystokinin 2 receptor as an analgesic target. *Molecular Pain*, **2016**, 12,	3.4	38
118	The pharmacology of voltage-gated sodium channel activators. *Neuropharmacology*, **2017**, 127, 87-108	5.5	37
117	Modulatory features of the novel spider toxin μ-TRTX-Df1a isolated from the venom of the spider Davus fasciatus. *British Journal of Pharmacology*, **2017**, 174, 2528-2544	8.6	37
116	Comparative Venomics Reveals the Complex Prey Capture Strategy of the Piscivorous Cone Snail Conus catus. *Journal of Proteome Research*, **2015**, 14, 4372-81	5.6	36
115	Development of a ω-Conotoxin Analogue with Improved Lipid Membrane Interactions and Potency for the Analgesic Sodium Channel NaV1.8. *Journal of Biological Chemistry*, **2016**, 291, 11829-42	5.4	35
114	The Snake with the Scorpion's Sting: Novel Three-Finger Toxin Sodium Channel Activators from the Venom of the Long-Glanded Blue Coral Snake (Calliophis bivirgatus). *Toxins*, **2016**, 8,	4.9	35
113	New Insight in Cold Pain: Role of Ion Channels, Modulation, and Clinical Perspectives. *Journal of Neuroscience*, **2016**, 36, 11435-11439	6.6	34
112	Analgesic effects of clinically used compounds in novel mouse models of polyneuropathy induced by oxaliplatin and cisplatin. *Neuro-Oncology*, **2014**, 16, 1324-32	1	34
111	Amplified cold transduction in native nociceptors by M-channel inhibition. *Journal of Neuroscience*, **2013**, 33, 16627-41	6.6	33
110	The thermal probe test: A novel behavioral assay to quantify thermal paw withdrawal thresholds in mice. *Temperature*, **2016**, 3, 199-207	5.2	32
109	2-nitroveratryl as a photocleavable thiol-protecting group for directed disulfide bond formation in the chemical synthesis of insulin. *Chemistry - A European Journal*, **2014**, 20, 9549-52	4.8	32
108	The Walker 256 Breast Cancer Cell- Induced Bone Pain Model in Rats. *Frontiers in Pharmacology*, **2016**, 7, 286	5.6	32
107	Multiple actions of phi-LITX-Lw1a on ryanodine receptors reveal a functional link between scorpion DDH and ICK toxins. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 8906-11	11.5	31

106	The Evolution of Fangs, Venom, and Mimicry Systems in Blenny Fishes. *Current Biology*, **2017**, 27, 1184-1191	6.1	30
105	Burn Pain: A Systematic and Critical Review of Epidemiology, Pathophysiology, and Treatment. *Pain Medicine*, **2018**, 19, 708-734	2.8	30
104	Convergent evolution of pain-inducing defensive venom components in spitting cobras. *Science*, **2021**, 371, 386-390	33.3	30
103	Therapeutic opportunities for targeting cold pain pathways. *Biochemical Pharmacology*, **2015**, 93, 125-406		29
102	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
101	The structure, dynamics and selectivity profile of a NaV1.7 potency-optimised huwentoxin-IV variant. *PLoS ONE*, **2017**, 12, e0173551	3.7	28
100	Development and optimization of FLIPR high throughput calcium assays for ion channels and GPCRs. *Advances in Experimental Medicine and Biology*, **2012**, 740, 45-82	3.6	27
99	Venom peptides as a rich source of cav2.2 channel blockers. *Toxins*, **2013**, 5, 286-314	4.9	26
98	Conotoxin SuVIA suggests an evolutionary link between ancestral predator defence and the origin of fish-hunting behaviour in carnivorous cone snails. *Proceedings of the Royal Society B: Biological Sciences*, **2015**, 282,	4.4	25
97	MrIC, a novel conotoxin agonist in the presence of PNU at endogenous nicotinic acetylcholine receptors. *Biochemistry*, **2014**, 53, 1-3	3.2	25
96	Pharmacological screening technologies for venom peptide discovery. *Neuropharmacology*, **2017**, 127, 4-19	5.5	24
95	Subtle modifications to oxytocin produce ligands that retain potency and improved selectivity across species. *Science Signaling*, **2017**, 10,	8.8	24
94	Antiallodynic effects of the selective NaV1.7 inhibitor Pn3a in a mouse model of acute postsurgical pain: evidence for analgesic synergy with opioids and baclofen. *Pain*, **2019**, 160, 1766-1780	8	24
93	Design, Synthesis and Biological Evaluation of Two Opioid Agonist and Cav 2.2 Blocker Multitarget Ligands. *Chemical Biology and Drug Design*, **2015**, 86, 156-62	2.9	23
92	Natural product ligands of TRP channels. *Advances in Experimental Medicine and Biology*, **2011**, 704, 41-85	3.6	23
91	A ray of venom: Combined proteomic and transcriptomic investigation of fish venom composition using barb tissue from the blue-spotted stingray (Neotrygon kuhlii). *Journal of Proteomics*, **2014**, 109, 188-98	3.9	22
90	The effects of pH on beta-endorphin and morphine inhibition of calcium transients in dorsal root ganglion neurons. *Journal of Pain*, **2006**, 7, 488-99	5.2	22
89	Myrtoxin-Mp1a is a Helical Heterodimer from the Venom of the Jack Jumper Ant that has Antimicrobial, Membrane-Disrupting, and Nociceptive Activities. *Angewandte Chemie - International Edition*, **2017**, 56, 8495-8499	16.4	21

88	Crotalphine desensitizes TRPA1 ion channels to alleviate inflammatory hyperalgesia. *Pain*, **2016**, 157, 2504-2516	8	21
87	Transcriptome and proteome of Conus planorbis identify the nicotinic receptors as primary target for the defensive venom. *Proteomics*, **2015**, 15, 4030-40	4.8	20
86	Mechanisms involved in potentiation of transient receptor potential vanilloid 1 responses by ethanol. *European Journal of Pain*, **2008**, 12, 441-54	3.7	19
85	Inflammatory and Neuropathic Gene Expression Signatures of Chemotherapy-Induced Neuropathy Induced by Vincristine, Cisplatin, and Oxaliplatin in C57BL/6J Mice. *Journal of Pain*, **2020**, 21, 182-194	5.2	19
84	Pain-Causing Venom Peptides: Insights into Sensory Neuron Pharmacology. *Toxins*, **2017**, 10,	4.9	19
83	Role of the NLRP3 inflammasome in a model of acute burn-induced pain. *Burns*, **2017**, 43, 304-309	2.3	18
82	Assessment of the TRPM8 inhibitor AMTB in breast cancer cells and its identification as an inhibitor of voltage gated sodium channels. *Life Sciences*, **2018**, 198, 128-135	6.8	18
81	□Conotoxin GVIA mimetics that bind and inhibit neuronal Ca(v)2.2 ion channels. *Marine Drugs*, **2012**, 10, 2349-68	6	18
80	Chemical synthesis and structure of the prokineticin Bv8. *ChemBioChem*, **2010**, 11, 1882-8	3.8	18
79	Isolation and structural and pharmacological characterization of □elapitoxin-Dpp2d, an amidated three finger toxin from black mamba venom. *Biochemistry*, **2014**, 53, 3758-66	3.2	17
78	Evaluation of known and novel inhibitors of Orai1-mediated store operated Ca entry in MDA-MB-231 breast cancer cells using a Fluorescence Imaging Plate Reader assay. *Bioorganic and Medicinal Chemistry*, **2017**, 25, 440-449	3.4	17
77	Na 1.6 regulates excitability of mechanosensitive sensory neurons. *Journal of Physiology*, **2019**, 597, 3751-3768	3.9	16
76	Activation of □Opioid Receptors in Cutaneous Nerve Endings by Conorphin-1, a Novel Subtype-Selective Conopeptide, Does Not Mediate Peripheral Analgesia. *ACS Chemical Neuroscience*, **2015**, 6, 1751-8	5.7	16
75	A new selective pharmacological enhancer of the Orai1 Ca channel reveals roles for Orai1 in smooth and skeletal muscle functions. *ACS Pharmacology and Translational Science*, **2020**, 3, 135-147	5.9	16
74	Ciguatera Toxins: Pharmacology, Toxicology, and Detection **2014**, 925-950		16
73	Development of an N-Acyl Amino Acid That Selectively Inhibits the Glycine Transporter 2 To Produce Analgesia in a Rat Model of Chronic Pain. *Journal of Medicinal Chemistry*, **2019**, 62, 2466-2484	8.3	15
72	The Somatostatin Receptor-4 Agonist J-2156 Alleviates Mechanical Hypersensitivity in a Rat Model of Breast Cancer Induced Bone Pain. *Frontiers in Pharmacology*, **2018**, 9, 495	5.6	15
71	Minocycline Prevents the Development of Mechanical Allodynia in Mouse Models of Vincristine-Induced Peripheral Neuropathy. *Frontiers in Neuroscience*, **2019**, 13, 653	5.1	15

70	Discovery and mode of action of a novel analgesic κ-toxin from the African spider Ceratogyrus darlingi. *PLoS ONE*, **2017**, 12, e0182848	3.7	14
69	The response of dorsal root ganglion axons to nerve growth factor gradients depends on spinal level. *Journal of Neurotrauma*, **2010**, 27, 1379-86	5.4	14
68	The NLRP3 Inflammasome: Role and Therapeutic Potential in Pain Treatment. *Frontiers in Physiology*, **2020**, 11, 1016	4.6	14
67	Conotoxin κ-MiXXVIIA from the Superfamily G2 Employs a Novel Cysteine Framework that Mimics Granulin and Displays Anti-Apoptotic Activity. *Angewandte Chemie - International Edition*, **2017**, 56, 14973-14976	16.4	14
66	NaV1.1 and NaV1.6 selective compounds reduce the behavior phenotype and epileptiform activity in a novel zebrafish model for Dravet Syndrome. *PLoS ONE*, **2020**, 15, e0219106	3.7	13
65	Pharmacological characterization of κ-elapitoxin-Al2a from the venom of the Australian pygmy copperhead (Austrelaps labialis): an atypical long-chain κ-neurotoxin with only weak affinity for α7 nicotinic receptors. *Biochemical Pharmacology*, **2012**, 84, 851-63	6	13
64	Australian funnel-web spiders evolved human-lethal δ-hexatoxins for defense against vertebrate predators. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 24920-24928	11.5	13
63	Transcriptomics in pain research: insights from new and old technologies. *Molecular Omics*, **2018**, 14, 389-404	4.4	13
62	κ-Conotoxin MrIC is a biased agonist at α7 nicotinic acetylcholine receptors. *Biochemical Pharmacology*, **2015**, 94, 155-63	6	12
61	Release of neuropeptides from a neuro-cutaneous co-culture model: A novel in-vitro model for studying sensory effects of ciguatoxins. *Toxicon*, **2016**, 116, 4-10	2.8	12
60	Novel analgesic κ-conotoxins from the vermivorous cone snail Conus moncuri provide new insights into the evolution of conopeptides. *Scientific Reports*, **2018**, 8, 13397	4.9	12
59	Development of a high-throughput fluorescent no-wash sodium influx assay. *PLoS ONE*, **2019**, 14, e0213751	3.7	10
58	CHAPTER 1:Seeing the Woods for the Trees: Understanding Venom Evolution as a Guide for Biodiscovery. *RSC Drug Discovery Series*, **2015**, 1-36	0.6	10
57	Manipulation of a spider peptide toxin alters its affinity for lipid bilayers and potency and selectivity for voltage-gated sodium channel subtype 1.7. *Journal of Biological Chemistry*, **2020**, 295, 5067-5080	5.4	10
56	Lethal effects of an insecticidal spider venom peptide involve positive allosteric modulation of insect nicotinic acetylcholine receptors. *Neuropharmacology*, **2017**, 127, 224-242	5.5	9
55	Novel conorfamides from Conus austini venom modulate both nicotinic acetylcholine receptors and acid-sensing ion channels. *Biochemical Pharmacology*, **2019**, 164, 342-348	6	9
54	Mapping the Molecular Surface of the Analgesic Na1.7-Selective Peptide Pn3a Reveals Residues Essential for Membrane and Channel Interactions. *ACS Pharmacology and Translational Science*, **2020**, 3, 535-546	5.9	9
53	Inhibition of N-type calcium channels by fluorophenoxyanilide derivatives. *Marine Drugs*, **2015**, 13, 2030-45	6	9

52	Enzymatic Ligation of a Pore Blocker Toxin and a Gating Modifier Toxin: Creating Double-Knotted Peptides with Improved Sodium Channel Na1.7 Inhibition. *Bioconjugate Chemistry*, **2020**, 31, 64-73	6.3	9
51	Missiles of Mass Disruption: Composition and Glandular Origin of Venom Used as a Projectile Defensive Weapon by the Assassin Bug. *Toxins*, **2019**, 11,	4.9	9
50	A Centipede Toxin Family Defines an Ancient Class of CSDefensins. *Structure*, **2019**, 27, 315-326.e7	5.2	9
49	Buzz Kill: Function and Proteomic Composition of Venom from the Giant Assassin Fly (Diptera: Asilidae). *Toxins*, **2018**, 10,	4.9	9
48	Optimization and Profiling of a Refined Rat Model of Walker 256 Breast Cancer Cell-Induced Bone Pain Using Behavioral, Radiological, Histological, Immunohistochemical and Pharmacological Methods. *Frontiers in Pharmacology*, **2017**, 8, 442	5.6	7
47	High-Throughput Fluorescence Assays for Ion Channels and GPCRs. *Advances in Experimental Medicine and Biology*, **2020**, 1131, 27-72	3.6	7
46	Discovery, Pharmacological Characterisation and NMR Structure of the Novel -Conotoxin SxIIIC, a Potent and Irreversible Na Channel Inhibitor. *Biomedicines*, **2020**, 8,	4.8	7
45	Synthesis of Multivalent [Lys8]-Oxytocin Dendrimers that Inhibit Visceral Nociceptive Responses. *Australian Journal of Chemistry*, **2017**, 70, 162	1.2	6
44	The E15R Point Mutation in Scorpion Toxin Cn2 Uncouples Its Depressant and Excitatory Activities on Human Na1.6. *Journal of Medicinal Chemistry*, **2018**, 61, 1730-1736	8.3	6
43	Vps26B-retromer negatively regulates plasma membrane resensitization of PAR-2. *Cell Biology International*, **2015**, 39, 1299-306	4.5	6
42	Chemotactic responses of growing neurites to precisely controlled gradients of nerve growth factor. *Scientific Data*, **2018**, 5, 180183	8.2	6
41	Neurotoxic peptides from the venom of the giant Australian stinging tree. *Science Advances*, **2020**, 6,	14.3	6
40	Vincristine-induced peripheral neuropathy is driven by canonical NLRP3 activation and IL-1 release. *Journal of Experimental Medicine*, **2021**, 218,	16.6	6
39	Small cyclic sodium channel inhibitors. *Biochemical Pharmacology*, **2021**, 183, 114291	6	6
38	An SAR study of hydroxy-trifluoromethylpyrazolines as inhibitors of Orai1-mediated store operated Ca entry in MDA-MB-231 breast cancer cells using a convenient Fluorescence Imaging Plate Reader assay. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 3406-3413	3.4	6
37	An Integrated Proteomic and Transcriptomic Analysis Reveals the Venom Complexity of the Bullet Ant. *Toxins*, **2020**, 12,	4.9	5
36	It Takes Two: Dimerization Is Essential for the Broad-Spectrum Predatory and Defensive Activities of the Venom Peptide Mp1a from the Jack Jumper Ant. *Biomedicines*, **2020**, 8,	4.8	5
35	Characterisation of a Novel A-Superfamily Conotoxin. *Biomedicines*, **2020**, 8,	4.8	5

34	Improving the Gastrointestinal Stability of Linaclotide. *Journal of Medicinal Chemistry*, **2021**, 64, 8384-8390	8.3	5
33	Feeling hot, feeling cold: TRP channels-a great story unfolds. *Temperature*, **2015**, 2, 150-1	5.2	4
32	Mutational analysis of ProTx-I and the novel venom peptide Pe1b provide insight into residues responsible for selective inhibition of the analgesic drug target Na1.7. *Biochemical Pharmacology*, **2020**, 181, 114080	6	4
31	Role of complement anaphylatoxin receptors in a mouse model of acute burn-induced pain. *Molecular Immunology*, **2018**, 94, 68-74	4.3	4
30	Ciguatoxin and Ciguatera **2016**, 71-92		4
29	Production, composition, and mode of action of the painful defensive venom produced by a limacodid caterpillar,. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
28	Characterization of Three Venom Peptides from the Spitting Spider Scytodes thoracica. *PLoS ONE*, **2016**, 11, e0156291	3.7	4
27	The zebrafish mutant uncovers an evolutionarily conserved role for Tmem161b in the control of cardiac rhythm. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	4
26	Characterization of Synthetic Tf2 as a Na1.3 Selective Pharmacological Probe. *Biomedicines*, **2020**, 8,	4.8	3
25	Voltage-Gated Sodium Channels as Therapeutic Targets **2012**, 63-122		3
24	A peptide toxin in ant venom mimics vertebrate EGF-like hormones to cause long-lasting hypersensitivity in mammals.. *Proceedings of the National Academy of Sciences of the United States of America*, **2022**, 119,	11.5	3
23	Recombinant production, bioconjugation and membrane binding studies ofPn3a, a selective Na1.7 inhibitor. *Biochemical Pharmacology*, **2020**, 181, 114148	6	3
22	Venom chemistry underlying the painful stings of velvet ants (Hymenoptera: Mutillidae). *Cellular and Molecular Life Sciences*, **2021**, 78, 5163-5177	10.3	3
21	Conotoxin MiXXVIIA from the Superfamily G2 Employs a Novel Cysteine Framework that Mimics Granulin and Displays Anti-Apoptotic Activity. *Angewandte Chemie*, **2017**, 129, 15169-15172	3.6	2
20	Addition of K22 Converts Spider Venom Peptide Pme2a from an Activator to an Inhibitor of Na1.7. *Biomedicines*, **2020**, 8,	4.8	2
19	Transcriptomic characterisation of the optimised rat model of Walker 256 breast cancer cell-induced bone pain. *Clinical and Experimental Pharmacology and Physiology*, **2019**, 46, 1201-1215	3	2
18	(-)-Pentylsedinine, a New Alkaloid from the Leaves of Lobelia Tupa with Agonist Activity at Nicotinic Acetylcholine Receptor. *Natural Product Communications*, **2015**, 10, 1934578X1501000	0.9	2
17	CHAPTER 4:Venoms-Based Drug Discovery: Bioassays, Electrophysiology, High-Throughput Screens and Target Identification. *RSC Drug Discovery Series*, **2015**, 97-128	0.6	2

16	Structural and functional insights into inhibition of human voltage-gated sodium channels by Conotoxin KIIIA disulfide isomers.. *Journal of Biological Chemistry*, **2022**, 101728	5.4	2
15	Engineering of a Spider Peptide Conserved Structure-Function Traits Optimizes Sodium Channel Inhibition and Anti-Nociception. *Frontiers in Molecular Biosciences*, **2021**, 8, 742457	5.6	2
14	Multipurpose peptides: The venoms of Amazonian stinging ants contain anthelmintic ponericins with diverse predatory and defensive activities. *Biochemical Pharmacology*, **2021**, 192, 114693	6	2
13	CHAPTER 12:Does Nature do Ion Channel Drug Discovery Better than Us?. *RSC Drug Discovery Series* , **2014**, 297-319	0.6	1
12	Polygodial, a drimane sesquiterpenoid dialdehyde purified from , inhibits voltage-gated sodium channels.. *Natural Product Research*, **2022**, 1-6	2.3	1
11	Towards a generic prototyping approach for therapeutically-relevant peptides and proteins in a cell-free translation system.. *Nature Communications*, **2022**, 13, 260	17.4	1
10	Evaluation of Efficient Non-reducing Enzymatic and Chemical Ligation Strategies for Complex Disulfide-Rich Peptides. *Bioconjugate Chemistry*, **2021**, 32, 2407-2419	6.3	1
9	The Allosteric Activation of nAChR by Conotoxin MrIC Is Modified by Mutations at the Vestibular Site. *Toxins*, **2021**, 13,	4.9	1
8	A pain-causing and paralytic ant venom glycopeptide. *IScience*, **2021**, 24, 103175	6.1	1
7	The Tarantula Venom Peptide Eo1a Binds to the Domain II S3-S4 Extracellular Loop of Voltage-Gated Sodium Channel Na1.8 to Enhance Activation.. *Frontiers in Pharmacology*, **2021**, 12, 789570	5.6	0
6	Novel Neurotoxic Activity in Calliophis intestinalis Venom. *Neurotoxicity Research*, **2021**, 40, 173	4.3	0
5	Pharmacological activity and NMR solution structure of the leech peptide HSTX-I. *Biochemical Pharmacology*, **2020**, 181, 114082	6	
4	Ciguatoxin Detection Methods and High-Throughput Assays **2017**, 469-488		
3	Molecular Pharmacology of Pain-inducing Venom Peptides. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY66-4	0	
2	Ciguatoxin and Ciguatera **2015**, 1-19		
1	Low potency inhibition of Na1.7 by externally applied QX-314 via a depolarizing shift in the voltage-dependence of activation.. *European Journal of Pharmacology*, **2022**, 175013	5.3	