Victor I Tsetlin

List of Publications by Year
in descending order

102 papers	3,542 citations	126907 33 h-index	155660 55 g-index
103 all docs	103 docs citations	103 times ranked	2573 citing authors

#	Article	IF	Citations
1	Effects of Cardiotoxins from Naja oxiana Cobra Venom on Rat Heart Muscle and Aorta: A Comparative Study of Toxin-Induced Contraction Mechanisms. Toxins, 2022, 14, 88.	3.4	13
2	Anti-HIV Activity of Snake Venom Phospholipase A2s: Updates for New Enzymes and Different Virus Strains. International Journal of Molecular Sciences, 2022, 23, 1610.	4.1	8
3	Marine Origin Ligands of Nicotinic Receptors: Low Molecular Compounds, Peptides and Proteins for Fundamental Research and Practical Applications. Biomolecules, 2022, 12, 189.	4.0	7
4	S- and P-type cobra venom cardiotoxins differ in their action on isolated rat heart. Journal of Venomous Animals and Toxins Including Tropical Diseases, 2022, 28, e20210110.	1.4	2
5	Antiviral Effects of Animal Toxins: Is There a Way to Drugs?. International Journal of Molecular Sciences, 2022, 23, 3634.	4.1	10
6	Toxinsâ€™ classification through Raman spectroscopy with principal component analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2022, 278, 121276.	3.9	7
7	Threeâ€finger proteins from snakes and humans acting on nicotinic receptors: Old and new. Journal of Neurochemistry, 2021, 158, 1223-1235.	3.9	22
8	Î±9Î±10 nicotinic acetylcholine receptors regulate murine bone marrow granulocyte functions. Immunobiology, 2021, 226, 152047.	1.9	9
9	Point Mutations of Nicotinic Receptor Î±1 Subunit Reveal New Molecular Features of G153S Slow-Channel Myasthenia. Molecules, 2021, 26, 1278.	3.8	2
10	Novel Three-Finger Neurotoxins from Naja melanoleuca Cobra Venom Interact with GABAA and Nicotinic Acetylcholine Receptors. Toxins, 2021, 13, 164.	3.4	7
11	Î±-Conotoxins and Î±-Cobratoxin Promote, while Lipoxygenase and Cyclooxygenase Inhibitors Suppress the Proliferation of Glioma C6 Cells. Marine Drugs, 2021, 19, 118.	4.6	11
12	Snake venom phospholipase A2s exhibit strong virucidal activity against SARS-CoV-2 and inhibit the viral spike glycoprotein interaction with ACE2. Cellular and Molecular Life Sciences, 2021, 78, 7777-7794.	5.4	28
13	Spatial Structure and Activity of Synthetic Fragments of Lynx1 and of Nicotinic Receptor Loop C Models. Biomolecules, 2021, 11, 1.	4.0	48
14	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors. Frontiers in Molecular Biosciences, 2021, 8, 753283.	3.5	1
15	Interaction of Î±9Î±10 Nicotinic Receptors With Peptides and Proteins From Animal Venoms. Frontiers in Cellular Neuroscience, 2021, 15, 765541.	3.7	4
16	High Selectivity of an Î±-Conotoxin LvIA Analogue for Î±3Î²2 Nicotinic Acetylcholine Receptors Is Mediated by Î²2 Functionally Important Residues. Journal of Medicinal Chemistry, 2020, 63, 13656-13668.	6.4	18
17	Novel Bradykinin-Potentiating Peptides and Three-Finger Toxins from Viper Venom: Combined NGS Venom Gland Transcriptomics and Quantitative Venom Proteomics of the Azemiops feae Viper. Biomedicines, 2020, 8, 249.	3.2	15
18	Editorial: From Peptide and Protein Toxins to Ion Channel Structure/Function and Drug Design. Frontiers in Pharmacology, 2020, 11, 548366.	3.5	3

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19	Tetrapeptide Ac-HAEE-NH2 Protects Î±4Î²2 nAChR from Inhibition by AÎ². International Journal of Molecular Sciences, 2020, 21, 6272.	4.1	9
20	Identification of Î±4Î²2 nAChR interaction site with AÎ²₄₂ and development of tetrapeptide capable of breaking this interaction. Alzheimer's and Dementia, 2020, 16, e040936.	0.8	1
21	Does Cholinergic Stimulation Affect the P2X7 Receptor-Mediated Dye Uptake in Mast Cells and Macrophages?. Frontiers in Cellular Neuroscience, 2020, 14, 548376.	3.7	5
22	Screening Snake Venoms for Toxicity to Tetrahymena Pyriformis Revealed Anti-Protozoan Activity of Cobra Cytotoxins. Toxins, 2020, 12, 325.	3.4	7
23	Acetylcholine and Acetylcholine Receptors: Textbook Knowledge and New Data. Biomolecules, 2020, 10, 852.	4.0	10
24	Complex approach for analysis of snake venom Î±-neurotoxins binding to HAP, the high-affinity peptide. Scientific Reports, 2020, 10, 3861.	3.3	11
25	Arachidonoylcholine and Other Unsaturated Long-Chain Acylcholines Are Endogenous Modulators of the Acetylcholine Signaling System. Biomolecules, 2020, 10, 283.	4.0	19
26	Î±-Conotoxins Enhance both the In Vivo Suppression of Ehrlich carcinoma Growth and In Vitro Reduction in Cell Viability Elicited by Cyclooxygenase and Lipoxygenase Inhibitors. Marine Drugs, 2020, 18, 193.	4.6	8
27	PNUâ€‘120596, a positive allosteric modulator of mammalian Î±7 nicotinic acetylcholine receptor, is a negative modulator of ligandâ€gated chlorideâ€selective channels of the gastropod Lymnaea stagnalis. Journal of Neurochemistry, 2020, 155, 274-284.	3.9	2
28	Activation of Î±7 Nicotinic Acetylcholine Receptor Upregulates HLA-DR and Macrophage Receptors: Potential Role in Adaptive Immunity and in Preventing Immunosuppression. Biomolecules, 2020, 10, 507.	4.0	26
29	From Synthetic Fragments of Endogenous Three-Finger Proteins to Potential Drugs. Frontiers in Pharmacology, 2019, 10, 748.	3.5	20
30	Isomerization of Asp7 in Beta-Amyloid Enhances Inhibition of the Î±7 Nicotinic Receptor and Promotes Neurotoxicity. Cells, 2019, 8, 771.	4.1	26
31	Scorpion toxins interact with nicotinic acetylcholine receptors. FEBS Letters, 2019, 593, 2779-2789.	2.8	14
32	Oligoarginine Peptides, a New Family of Nicotinic Acetylcholine Receptor Inhibitors. Molecular Pharmacology, 2019, 96, 664-673.	2.3	14
33	New Rigid Nicotine Analogues, Carrying a Norbornane Moiety, Are Potent Agonists of Î±7 and Î±3* Nicotinic Receptors. Journal of Medicinal Chemistry, 2019, 62, 1887-1901.	6.4	6
34	Crystal Structure of the Monomeric Extracellular Domain of Î±9 Nicotinic Receptor Subunit in Complex With Î±-Conotoxin RgIA: Molecular Dynamics Insights Into RgIA Binding to Î±9Î±10 Nicotinic Receptors. Frontiers in Pharmacology, 2019, 10, 474.	3.5	40
35	Novel long-chain neurotoxins from <i>Bungarus candidus</i> distinguish the two binding sites in muscle-type nicotinic acetylcholine receptors. Biochemical Journal, 2019, 476, 1285-1302.	3.7	24
36	Curare alkaloids from Matis Dart Poison: Comparison with d-tubocurarine in interactions with nicotinic, 5-HT3 serotonin and GABAA receptors. PLoS ONE, 2019, 14, e0210182.	2.5	14

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37	Phospholipase A₂from krait<i>Bungarus fasciatus</i>venom induces human cancer cell death in vitro. PeerJ, 2019, 7, e8055.	2.0	16
38	Orthosteric and/or Allosteric Binding of Î±-Conotoxins to Nicotinic Acetylcholine Receptors and Their Models. Marine Drugs, 2018, 16, 460.	4.6	17
39	Species specificity of rat and human Î±7 nicotinic acetylcholine receptors towards different classes of peptide and protein antagonists. Neuropharmacology, 2018, 139, 226-237.	4.1	15
40	Makaluvamine G from the Marine Sponge Zyzzia fuliginosa Inhibits Muscle nAChR by Binding at the Orthosteric and Allosteric Sites. Marine Drugs, 2018, 16, 109.	4.6	8
41	Azemiopsin, a Selective Peptide Antagonist of Muscle Nicotinic Acetylcholine Receptor: Preclinical Evaluation as a Local Muscle Relaxant. Toxins, 2018, 10, 34.	3.4	28
42	Nicotinic acetylcholine receptor inhibitors derived from snake and snail venoms. Neuropharmacology, 2017, 127, 196-223.	4.1	70
43	Interaction of Synthetic Human SLURP-1 with the Nicotinic Acetylcholine Receptors. Scientific Reports, 2017, 7, 16606.	3.3	20
44	Anticoagulant Activity of Low-Molecular Weight Compounds from Heterometrus laoticus Scorpion Venom. Toxins, 2017, 9, 343.	3.4	14
45	Calcium imaging with genetically encoded sensor Case12: Facile analysis of Î±7/Î±9 nAChR mutants. PLoS ONE, 2017, 12, e0181936.	2.5	13
46	Pancreatic and snake venom presynaptically active phospholipases A2 inhibit nicotinic acetylcholine receptors. PLoS ONE, 2017, 12, e0186206.	2.5	22
47	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of Î±7 Nicotinic Acetylcholine Receptor. PLoS ONE, 2016, 11, e0149733.	2.5	65
48	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. Biotechnology Letters, 2016, 38, 1173-1180.	2.2	5
49	Peptides from puff adder Bitis arietans venom, novel inhibitors of nicotinic acetylcholine receptors. Toxicon, 2016, 121, 70-76.	1.6	15
50	High-Affinity Î±-Conotoxin PnIA Analogs Designed on the Basis of the Protein Surface Topography Method. Scientific Reports, 2016, 6, 36848.	3.3	23
51	From crystal structure of Î±-conotoxin GIC in complex with Ac-AChBP to molecular determinants of its high selectivity for Î±3Î²2 nAChR. Scientific Reports, 2016, 6, 22349.	3.3	41
52	Central loop of non-conventional toxin WTX from Naja kaouthia is important for interaction with nicotinic acetylcholine receptors. Toxicon, 2016, 119, 274-279.	1.6	18
53	New quinoline derivatives as nicotinic receptor modulators. European Journal of Medicinal Chemistry, 2016, 110, 246-258.	5.5	4
54	Nicotinic receptor involvement in regulation of functions of mouse neutrophils from inflammatory site. Immunobiology, 2016, 221, 761-772.	1.9	26

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55	6-Bromohypaphorine from Marine Nudibranch Mollusk Hermissenda crassicornis is an Agonist of Human Î±7 Nicotinic Acetylcholine Receptor. Marine Drugs, 2015, 13, 1255-1266.	4.6	25
56	Three-finger snake neurotoxins and Ly6 proteins targeting nicotinic acetylcholine receptors: pharmacological tools and endogenous modulators. Trends in Pharmacological Sciences, 2015, 36, 109-123.	8.7	96
57	Natural Compounds Interacting with Nicotinic Acetylcholine Receptors: From Low-Molecular Weight Ones to Peptides and Proteins. Toxins, 2015, 7, 1683-1701.	3.4	32
58	Cloning, synthesis, and characterization of Î±O-conotoxin GeXIVA, a potent Î±9Î±10 nicotinic acetylcholine receptor antagonist. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E4026-35.	7.1	91
59	Quantitative proteomic analysis of Vietnamese krait venoms: Neurotoxins are the major components in Bungarus multicinctus and phospholipases A2 in Bungarus fasciatus. Toxicon, 2015, 107, 197-209.	1.6	55
60	Curare Alkaloids: Constituents of a Matis Dart Poison. Journal of Natural Products, 2015, 78, 2537-2544.	3.0	11
61	Structural Insight into Specificity of Interactions between Nonconventional Three-finger Weak Toxin from Naja kaouthia (WTX) and Muscarinic Acetylcholine Receptors. Journal of Biological Chemistry, 2015, 290, 23616-23630.	3.4	37
62	Neurotoxins from Snake Venoms and Î±-Conotoxin ImI Inhibit Functionally Active Ionotropic Î³-Aminobutyric Acid (GABA) Receptors. Journal of Biological Chemistry, 2015, 290, 22747-22758.	3.4	45
63	Functional expression and axonal transport of Î±7 nAChRs by peptidergic nociceptors of rat dorsal root ganglion. Brain Structure and Function, 2015, 220, 1885-1899.	2.3	14
64	Expression of the Ly-6 family proteins Lynx1 and Ly6H in the rat brain is compartmentalized, cell-type specific, and developmentally regulated. Brain Structure and Function, 2014, 219, 1923-1934.	2.3	33
65	Vietnamese Heterometrus laoticus scorpion venom: Evidence for analgesic and anti-inflammatory activity and isolation of new polypeptide toxin acting on Kv1.3 potassium channel. Toxicon, 2014, 77, 40-48.	1.6	27
66	Marine Natural Products Acting on the Acetylcholine-Binding Protein and Nicotinic Receptors: From Computer Modeling to Binding Studies and Electrophysiology. Marine Drugs, 2014, 12, 1859-1875.	4.6	24
67	Inhibition of Nicotinic Acetylcholine Receptors, a Novel Facet in the Pleiotropic Activities of Snake Venom Phospholipases A2. PLoS ONE, 2014, 9, e115428.	2.5	36
68	Water-soluble LYNX1 Residues Important for Interaction with Muscle-type and/or Neuronal Nicotinic Receptors. Journal of Biological Chemistry, 2013, 288, 15888-15899.	3.4	48
69	Azemiopsin from Azemiops feae Viper Venom, a Novel Polypeptide Ligand of Nicotinic Acetylcholine Receptor. Journal of Biological Chemistry, 2012, 287, 27079-27086.	3.4	61
70	Mitochondria Express Î±7 Nicotinic Acetylcholine Receptors to Regulate Ca2+ Accumulation and Cytochrome c Release: Study on Isolated Mitochondria. PLoS ONE, 2012, 7, e31361.	2.5	130
71	Dimeric Î±-Cobratoxin X-ray Structure. Journal of Biological Chemistry, 2012, 287, 6725-6734.	3.4	33
72	NMR Structure and Action on Nicotinic Acetylcholine Receptors of Water-soluble Domain of Human LYNX1. Journal of Biological Chemistry, 2011, 286, 10618-10627.	3.4	87

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73	Design of New Î±-Conotoxins: From Computer Modeling to Synthesis of Potent Cholinergic Compounds. Marine Drugs, 2011, 9, 1698-1714.	4.6	26
74	Assembly of nicotinic and other Cysâ€loop receptors. Journal of Neurochemistry, 2011, 116, 734-741.	3.9	53
75	A new type of thrombin inhibitor, noncytotoxic phospholipase A2, from the Naja haje cobra venom. Toxicon, 2010, 55, 186-194.	1.6	44
76	Naturally Occurring and Synthetic Peptides Acting on Nicotinic Acetylcholine Receptors. Current Pharmaceutical Design, 2009, 15, 2430-2452.	1.9	46
77	Polypeptide and peptide toxins, magnifying lenses for binding sites in nicotinic acetylcholine receptors. Biochemical Pharmacology, 2009, 78, 720-731.	4.4	75
78	Weak toxin WTX from <i>Najaâ€ƒkaouthia</i> cobra venom interacts with both nicotinic and muscarinic acetylcholine receptors. FEBS Journal, 2009, 276, 5065-5075.	4.7	37
79	Presence of Î±7 nicotinic acetylcholine receptors on dorsal root ganglion neurons proved using knockout mice and selective Î±â€neurotoxins in histochemistry. Journal of Neurochemistry, 2009, 109, 1087-1095.	3.9	24
80	Nicotinic acetylcholine receptors at atomic resolution. Current Opinion in Pharmacology, 2009, 9, 306-310.	3.5	39
81	Naturally Occurring Disulfide-bound Dimers of Three-fingered Toxins. Journal of Biological Chemistry, 2008, 283, 14571-14580.	3.4	73
82	?-Conotoxin analogs with additional positive charge show increased selectivity towards Torpedoï¿½californica and some neuronal subtypes of nicotinic acetylcholine receptors. FEBS Journal, 2006, 273, 4470-4481.	4.7	35
83	Î±-Conotoxin Analogs With Enhanced Affinity for Nicotinic Receptors and Acetylcholine-Binding Proteins. Journal of Molecular Neuroscience, 2006, 30, 77-78.	2.3	2
84	Structural determinants of selective Â-conotoxin binding to a nicotinic acetylcholine receptor homolog AChBP. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 3615-3620.	7.1	187
85	Crystal structure of nicotinic acetylcholine receptor homolog AChBP in complex with an Î±-conotoxin PnIA variant. Nature Structural and Molecular Biology, 2005, 12, 582-588.	8.2	311
86	The first representative of glycosylated three-fingered toxins. Cytotoxin from the Naja kaouthia cobra venom. FEBS Journal, 2004, 271, 2018-2027.	0.2	23
87	A comparative study on selectivity of alpha-conotoxins GI and ImI using their synthetic analogues and derivatives. Neurochemical Research, 2003, 28, 599-606.	3.3	9
88	Functional Nicotinic Acetylcholine Receptors Are Expressed in B Lymphocyte-Derived Cell Lines. Molecular Pharmacology, 2003, 64, 885-889.	2.3	72
89	Refolding of the Escherichia coli expressed extracellular domain of Î±7 nicotinic acetylcholine receptor. FEBS Journal, 2002, 269, 2801-2809.	0.2	23
90	Photoactivatable Î±-conotoxins reveal contacts with all subunits as well as antagonist-induced rearrangements in theTorpedo californicaacetylcholine receptor. FEBS Journal, 2001, 268, 3664-3673.	0.2	16

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91	â€œWeak Toxinâ€•from Naja kaouthia Is a Nontoxic Antagonist of Î±7 and Muscle-type Nicotinic Acetylcholine Receptors. Journal of Biological Chemistry, 2001, 276, 15810-15815.	3.4	108
92	Muscarinic toxin-like proteins from cobra venom. FEBS Journal, 2000, 267, 6784-6789.	0.2	40
93	Snake venom alpha-neurotoxins and other 'three-finger' proteins. FEBS Journal, 1999, 264, 281-286.	0.2	256
94	How do acetylcholine receptor ligands reach their binding sites?. FEBS Journal, 1999, 265, 902-910.	0.2	18
95	Physicochemical and immunological studies of the N-terminal domain Ã¯Â¿Â½of theTorpedoacetylcholine receptor Î±-subunit expressed in Ã¯Â¿Â½Escherichia coli. FEBS Journal, 1999, 259, 310-319.	0.2	33
96	NMR spatial structure of Î±-conotoxin ImI reveals a common scaffold in snail and snake toxins recognizing neuronal nicotinic acetylcholine receptors1. FEBS Letters, 1999, 444, 275-280.	2.8	63
97	Labeling of Torpedo californica nicotinic acetylcholine receptor subunits by cobratoxin derivatives with photoactivatable groups of different chemical nature at Lys23. FEBS Journal, 1998, 253, 229-235.	0.2	17
98	Two distinct structures of alpha-conotoxin GI in aqueous solution. FEBS Journal, 1998, 254, 238-247.	0.2	42
99	Spatial structure of the M3 transmembrane segment of the nicotinic acetylcholine receptor alpha subunit. FEBS Journal, 1998, 255, 455-461.	0.2	40
100	Substance P derivatives with photoactivatable labels in the Nâ€terminal part of the molecule. Chemical Biology and Drug Design, 1997, 50, 408-414.	1.1	5
101	Structural Biology of Key Nervous System Proteins. Journal of Neurochemistry, 1996, 66, 1781-1792.	3.9	12
102	Two-dimensional 1H-NMR study of the spatial structure of neurotoxin II from Naja naja oxiana. FEBS Journal, 1993, 213, 1213-1223.	0.2	37