

Victor I Tsetlin

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6214499/publications.pdf>

Version: 2024-02-01

102
papers

3,542
citations

126708

33
h-index

155451

55
g-index

103
all docs

103
docs citations

103
times ranked

2573
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of nicotinic acetylcholine receptor homolog AChBP in complex with an $\hat{1}\pm$ -conotoxin PnIA variant. <i>Nature Structural and Molecular Biology</i> , 2005, 12, 582-588.	3.6	311
2	Snake venom alpha-neurotoxins and other 'three-finger' proteins. <i>FEBS Journal</i> , 1999, 264, 281-286.	0.2	256
3	Structural determinants of selective \hat{A} -conotoxin binding to a nicotinic acetylcholine receptor homolog AChBP. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 3615-3620.	3.3	187
4	Mitochondria Express $\hat{1}\pm 7$ Nicotinic Acetylcholine Receptors to Regulate Ca^{2+} Accumulation and Cytochrome c Release: Study on Isolated Mitochondria. <i>PLoS ONE</i> , 2012, 7, e31361.	1.1	130
5	â€œWeak Toxinâ€ from <i>Naja kaouthia</i> Is a Nontoxic Antagonist of $\hat{1}\pm 7$ and Muscle-type Nicotinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2001, 276, 15810-15815.	1.6	108
6	Three-finger snake neurotoxins and Ly6 proteins targeting nicotinic acetylcholine receptors: pharmacological tools and endogenous modulators. <i>Trends in Pharmacological Sciences</i> , 2015, 36, 109-123.	4.0	96
7	Cloning, synthesis, and characterization of $\hat{1}\pm O$ -conotoxin GeXIVA, a potent $\hat{1}\pm 9\hat{1}\pm 10$ nicotinic acetylcholine receptor antagonist. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4026-35.	3.3	91
8	NMR Structure and Action on Nicotinic Acetylcholine Receptors of Water-soluble Domain of Human LYNX1. <i>Journal of Biological Chemistry</i> , 2011, 286, 10618-10627.	1.6	87
9	Polypeptide and peptide toxins, magnifying lenses for binding sites in nicotinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , 2009, 78, 720-731.	2.0	75
10	Naturally Occurring Disulfide-bound Dimers of Three-fingered Toxins. <i>Journal of Biological Chemistry</i> , 2008, 283, 14571-14580.	1.6	73
11	Functional Nicotinic Acetylcholine Receptors Are Expressed in B Lymphocyte-Derived Cell Lines. <i>Molecular Pharmacology</i> , 2003, 64, 885-889.	1.0	72
12	Nicotinic acetylcholine receptor inhibitors derived from snake and snail venoms. <i>Neuropharmacology</i> , 2017, 127, 196-223.	2.0	70
13	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of $\hat{1}\pm 7$ Nicotinic Acetylcholine Receptor. <i>PLoS ONE</i> , 2016, 11, e0149733.	1.1	65
14	NMR spatial structure of $\hat{1}\pm$ -conotoxin lml reveals a common scaffold in snail and snake toxins recognizing neuronal nicotinic acetylcholine receptors1. <i>FEBS Letters</i> , 1999, 444, 275-280.	1.3	63
15	Azemiopsin from <i>Azemiops feae</i> Viper Venom, a Novel Polypeptide Ligand of Nicotinic Acetylcholine Receptor. <i>Journal of Biological Chemistry</i> , 2012, 287, 27079-27086.	1.6	61
16	Quantitative proteomic analysis of Vietnamese krait venoms: Neurotoxins are the major components in <i>Bungarus multicinctus</i> and phospholipases A2 in <i>Bungarus fasciatus</i> . <i>Toxicon</i> , 2015, 107, 197-209.	0.8	55
17	Assembly of nicotinic and other Cysâ€loop receptors. <i>Journal of Neurochemistry</i> , 2011, 116, 734-741.	2.1	53
18	Water-soluble LYNX1 Residues Important for Interaction with Muscle-type and/or Neuronal Nicotinic Receptors. <i>Journal of Biological Chemistry</i> , 2013, 288, 15888-15899.	1.6	48

#	ARTICLE	IF	CITATIONS
19	Spatial Structure and Activity of Synthetic Fragments of Lynx1 and of Nicotinic Receptor Loop C Models. <i>Biomolecules</i> , 2021, 11, 1.	1.8	48
20	Naturally Occurring and Synthetic Peptides Acting on Nicotinic Acetylcholine Receptors. <i>Current Pharmaceutical Design</i> , 2009, 15, 2430-2452.	0.9	46
21	Neurotoxins from Snake Venoms and α -Conotoxin Iml Inhibit Functionally Active Ionotropic γ -Aminobutyric Acid (GABA) Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 22747-22758.	1.6	45
22	A new type of thrombin inhibitor, noncytotoxic phospholipase A2, from the <i>Naja haje</i> cobra venom. <i>Toxicon</i> , 2010, 55, 186-194.	0.8	44
23	Two distinct structures of alpha-conotoxin GI in aqueous solution. <i>FEBS Journal</i> , 1998, 254, 238-247.	0.2	42
24	From crystal structure of α -conotoxin G1C in complex with Ac-AChBP to molecular determinants of its high selectivity for α 2 nAChR. <i>Scientific Reports</i> , 2016, 6, 22349.	1.6	41
25	Spatial structure of the M3 transmembrane segment of the nicotinic acetylcholine receptor alpha subunit. <i>FEBS Journal</i> , 1998, 255, 455-461.	0.2	40
26	Muscarinic toxin-like proteins from cobra venom. <i>FEBS Journal</i> , 2000, 267, 6784-6789.	0.2	40
27	Crystal Structure of the Monomeric Extracellular Domain of α 9 Nicotinic Receptor Subunit in Complex With α -Conotoxin RgIA: Molecular Dynamics Insights Into RgIA Binding to α 10 Nicotinic Receptors. <i>Frontiers in Pharmacology</i> , 2019, 10, 474.	1.6	40
28	Nicotinic acetylcholine receptors at atomic resolution. <i>Current Opinion in Pharmacology</i> , 2009, 9, 306-310.	1.7	39
29	Two-dimensional 1H-NMR study of the spatial structure of neurotoxin II from <i>Naja naja oxiana</i> . <i>FEBS Journal</i> , 1993, 213, 1213-1223.	0.2	37
30	Weak toxin WTX from <i>Naja kaouthia</i> cobra venom interacts with both nicotinic and muscarinic acetylcholine receptors. <i>FEBS Journal</i> , 2009, 276, 5065-5075.	2.2	37
31	Structural Insight into Specificity of Interactions between Nonconventional Three-finger Weak Toxin from <i>Naja kaouthia</i> (WTX) and Muscarinic Acetylcholine Receptors. <i>Journal of Biological Chemistry</i> , 2015, 290, 23616-23630.	1.6	37
32	Inhibition of Nicotinic Acetylcholine Receptors, a Novel Facet in the Pleiotropic Activities of Snake Venom Phospholipases A2. <i>PLoS ONE</i> , 2014, 9, e115428.	1.1	36
33	α -Conotoxin analogs with additional positive charge show increased selectivity towards <i>Torpedo californica</i> and some neuronal subtypes of nicotinic acetylcholine receptors. <i>FEBS Journal</i> , 2006, 273, 4470-4481.	2.2	35
34	Physicochemical and immunological studies of the N-terminal domain of the <i>Torpedo</i> acetylcholine receptor α -subunit expressed in <i>Escherichia coli</i> . <i>FEBS Journal</i> , 1999, 259, 310-319.	0.2	33
35	Dimeric α -Cobratoxin X-ray Structure. <i>Journal of Biological Chemistry</i> , 2012, 287, 6725-6734.	1.6	33
36	Expression of the Ly-6 family proteins Lynx1 and Ly6H in the rat brain is compartmentalized, cell-type specific, and developmentally regulated. <i>Brain Structure and Function</i> , 2014, 219, 1923-1934.	1.2	33

#	ARTICLE	IF	CITATIONS
37	Natural Compounds Interacting with Nicotinic Acetylcholine Receptors: From Low-Molecular Weight Ones to Peptides and Proteins. <i>Toxins</i> , 2015, 7, 1683-1701.	1.5	32
38	Azemiopsin, a Selective Peptide Antagonist of Muscle Nicotinic Acetylcholine Receptor: Preclinical Evaluation as a Local Muscle Relaxant. <i>Toxins</i> , 2018, 10, 34.	1.5	28
39	Snake venom phospholipase A2s exhibit strong virucidal activity against SARS-CoV-2 and inhibit the viral spike glycoprotein interaction with ACE2. <i>Cellular and Molecular Life Sciences</i> , 2021, 78, 7777-7794.	2.4	28
40	Vietnamese <i>Heterometrus laoticus</i> scorpion venom: Evidence for analgesic and anti-inflammatory activity and isolation of new polypeptide toxin acting on Kv1.3 potassium channel. <i>Toxicon</i> , 2014, 77, 40-48.	0.8	27
41	Design of New α -Conotoxins: From Computer Modeling to Synthesis of Potent Cholinergic Compounds. <i>Marine Drugs</i> , 2011, 9, 1698-1714.	2.2	26
42	Nicotinic receptor involvement in regulation of functions of mouse neutrophils from inflammatory site. <i>Immunobiology</i> , 2016, 221, 761-772.	0.8	26
43	Isomerization of Asp7 in Beta-Amyloid Enhances Inhibition of the α 7 Nicotinic Receptor and Promotes Neurotoxicity. <i>Cells</i> , 2019, 8, 771.	1.8	26
44	Activation of α 7 Nicotinic Acetylcholine Receptor Upregulates HLA-DR and Macrophage Receptors: Potential Role in Adaptive Immunity and in Preventing Immunosuppression. <i>Biomolecules</i> , 2020, 10, 507.	1.8	26
45	6-Bromohypaphorine from Marine Nudibranch Mollusk <i>Hermisenda crassicornis</i> is an Agonist of Human α 7 Nicotinic Acetylcholine Receptor. <i>Marine Drugs</i> , 2015, 13, 1255-1266.	2.2	25
46	Presence of α 7 nicotinic acetylcholine receptors on dorsal root ganglion neurons proved using knockout mice and selective α -neurotoxins in histochemistry. <i>Journal of Neurochemistry</i> , 2009, 109, 1087-1095.	2.1	24
47	Marine Natural Products Acting on the Acetylcholine-Binding Protein and Nicotinic Receptors: From Computer Modeling to Binding Studies and Electrophysiology. <i>Marine Drugs</i> , 2014, 12, 1859-1875.	2.2	24
48	Novel long-chain neurotoxins from <i>Bungarus candidus</i> distinguish the two binding sites in muscle-type nicotinic acetylcholine receptors. <i>Biochemical Journal</i> , 2019, 476, 1285-1302.	1.7	24
49	Refolding of the Escherichia coli expressed extracellular domain of α 7 nicotinic acetylcholine receptor. <i>FEBS Journal</i> , 2002, 269, 2801-2809.	0.2	23
50	The first representative of glycosylated three-fingered toxins. Cytotoxin from the <i>Naja kaouthia</i> cobra venom. <i>FEBS Journal</i> , 2004, 271, 1818-1827.	0.2	23
51	High-Affinity α -Conotoxin PnIA Analogs Designed on the Basis of the Protein Surface Topography Method. <i>Scientific Reports</i> , 2016, 6, 36848.	1.6	23
52	Pancreatic and snake venom presynaptically active phospholipases A2 inhibit nicotinic acetylcholine receptors. <i>PLoS ONE</i> , 2017, 12, e0186206.	1.1	22
53	Three-finger proteins from snakes and humans acting on nicotinic receptors: Old and new. <i>Journal of Neurochemistry</i> , 2021, 158, 1223-1235.	2.1	22
54	Interaction of Synthetic Human SLURP-1 with the Nicotinic Acetylcholine Receptors. <i>Scientific Reports</i> , 2017, 7, 16606.	1.6	20

#	ARTICLE	IF	CITATIONS
55	From Synthetic Fragments of Endogenous Three-Finger Proteins to Potential Drugs. <i>Frontiers in Pharmacology</i> , 2019, 10, 748.	1.6	20
56	Arachidonoylcholine and Other Unsaturated Long-Chain Acylcholines Are Endogenous Modulators of the Acetylcholine Signaling System. <i>Biomolecules</i> , 2020, 10, 283.	1.8	19
57	How do acetylcholine receptor ligands reach their binding sites?. <i>FEBS Journal</i> , 1999, 265, 902-910.	0.2	18
58	Central loop of non-conventional toxin WTX from <i>Naja kaouthia</i> is important for interaction with nicotinic acetylcholine receptors. <i>Toxicon</i> , 2016, 119, 274-279.	0.8	18
59	High Selectivity of an α -Conotoxin LvIA Analogue for α 3 β 2 Nicotinic Acetylcholine Receptors Is Mediated by β 2 Functionally Important Residues. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 13656-13668.	2.9	18
60	Labeling of <i>Torpedo californica</i> nicotinic acetylcholine receptor subunits by cobratoxin derivatives with photoactivatable groups of different chemical nature at Lys23. <i>FEBS Journal</i> , 1998, 253, 229-235.	0.2	17
61	Orthosteric and/or Allosteric Binding of α -Conotoxins to Nicotinic Acetylcholine Receptors and Their Models. <i>Marine Drugs</i> , 2018, 16, 460.	2.2	17
62	Photoactivatable α -conotoxins reveal contacts with all subunits as well as antagonist-induced rearrangements in the <i>Torpedo californica</i> acetylcholine receptor. <i>FEBS Journal</i> , 2001, 268, 3664-3673.	0.2	16
63	Phospholipase A ₂ from <i>Bungarus fasciatus</i> venom induces human cancer cell death in vitro. <i>PeerJ</i> , 2019, 7, e8055.	0.9	16
64	Peptides from puff adder <i>Bitis arietans</i> venom, novel inhibitors of nicotinic acetylcholine receptors. <i>Toxicon</i> , 2016, 121, 70-76.	0.8	15
65	Species specificity of rat and human α 7 nicotinic acetylcholine receptors towards different classes of peptide and protein antagonists. <i>Neuropharmacology</i> , 2018, 139, 226-237.	2.0	15
66	Novel Bradykinin-Potentiating Peptides and Three-Finger Toxins from Viper Venom: Combined NGS Venom Gland Transcriptomics and Quantitative Venom Proteomics of the <i>Azemiops feae</i> Viper. <i>Biomedicines</i> , 2020, 8, 249.	1.4	15
67	Functional expression and axonal transport of α 7 nAChRs by peptidergic nociceptors of rat dorsal root ganglion. <i>Brain Structure and Function</i> , 2015, 220, 1885-1899.	1.2	14
68	Anticoagulant Activity of Low-Molecular Weight Compounds from <i>Heterometrus laoticus</i> Scorpion Venom. <i>Toxins</i> , 2017, 9, 343.	1.5	14
69	Scorpion toxins interact with nicotinic acetylcholine receptors. <i>FEBS Letters</i> , 2019, 593, 2779-2789.	1.3	14
70	Oligoarginine Peptides, a New Family of Nicotinic Acetylcholine Receptor Inhibitors. <i>Molecular Pharmacology</i> , 2019, 96, 664-673.	1.0	14
71	Curare alkaloids from Matis Dart Poison: Comparison with d-tubocurarine in interactions with nicotinic, 5-HT ₃ serotonin and GABA _A receptors. <i>PLoS ONE</i> , 2019, 14, e0210182.	1.1	14
72	Calcium imaging with genetically encoded sensor Case12: Facile analysis of α 7/ α 9 nAChR mutants. <i>PLoS ONE</i> , 2017, 12, e0181936.	1.1	13

#	ARTICLE	IF	CITATIONS
73	Effects of Cardiotoxins from <i>Naja oxiana</i> Cobra Venom on Rat Heart Muscle and Aorta: A Comparative Study of Toxin-Induced Contraction Mechanisms. <i>Toxins</i> , 2022, 14, 88.	1.5	13
74	Structural Biology of Key Nervous System Proteins. <i>Journal of Neurochemistry</i> , 1996, 66, 1781-1792.	2.1	12
75	Curare Alkaloids: Constituents of a Matis Dart Poison. <i>Journal of Natural Products</i> , 2015, 78, 2537-2544.	1.5	11
76	Complex approach for analysis of snake venom α -neurotoxins binding to HAP, the high-affinity peptide. <i>Scientific Reports</i> , 2020, 10, 3861.	1.6	11
77	α -Conotoxins and α -Cobratoxin Promote, while Lipoxygenase and Cyclooxygenase Inhibitors Suppress the Proliferation of Glioma C6 Cells. <i>Marine Drugs</i> , 2021, 19, 118.	2.2	11
78	Acetylcholine and Acetylcholine Receptors: Textbook Knowledge and New Data. <i>Biomolecules</i> , 2020, 10, 852.	1.8	10
79	Antiviral Effects of Animal Toxins: Is There a Way to Drugs?. <i>International Journal of Molecular Sciences</i> , 2022, 23, 3634.	1.8	10
80	A comparative study on selectivity of alpha-conotoxins GI and Iml using their synthetic analogues and derivatives. <i>Neurochemical Research</i> , 2003, 28, 599-606.	1.6	9
81	Tetrapeptide Ac-HAEE-NH ₂ Protects α 4 β 2 nAChR from Inhibition by α 1 β . <i>International Journal of Molecular Sciences</i> , 2020, 21, 6272.	1.8	9
82	α 9 β 10 nicotinic acetylcholine receptors regulate murine bone marrow granulocyte functions. <i>Immunobiology</i> , 2021, 226, 152047.	0.8	9
83	Makaluvamine G from the Marine Sponge <i>Zyzzia fuliginosa</i> Inhibits Muscle nAChR by Binding at the Orthosteric and Allosteric Sites. <i>Marine Drugs</i> , 2018, 16, 109.	2.2	8
84	α -Conotoxins Enhance both the In Vivo Suppression of Ehrlich carcinoma Growth and In Vitro Reduction in Cell Viability Elicited by Cyclooxygenase and Lipoxygenase Inhibitors. <i>Marine Drugs</i> , 2020, 18, 193.	2.2	8
85	Anti-HIV Activity of Snake Venom Phospholipase A ₂ s: Updates for New Enzymes and Different Virus Strains. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1610.	1.8	8
86	Screening Snake Venoms for Toxicity to <i>Tetrahymena Pyriformis</i> Revealed Anti-Protozoan Activity of Cobra Cytotoxins. <i>Toxins</i> , 2020, 12, 325.	1.5	7
87	Novel Three-Finger Neurotoxins from <i>Naja melanoleuca</i> Cobra Venom Interact with GABA _A and Nicotinic Acetylcholine Receptors. <i>Toxins</i> , 2021, 13, 164.	1.5	7
88	Marine Origin Ligands of Nicotinic Receptors: Low Molecular Compounds, Peptides and Proteins for Fundamental Research and Practical Applications. <i>Biomolecules</i> , 2022, 12, 189.	1.8	7
89	Toxins's classification through Raman spectroscopy with principal component analysis. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2022, 278, 121276.	2.0	7
90	New Rigid Nicotine Analogues, Carrying a Norbornane Moiety, Are Potent Agonists of α 7 and α 3* Nicotinic Receptors. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 1887-1901.	2.9	6

#	ARTICLE	IF	CITATIONS
91	Substance P derivatives with photoactivatable labels in the N-terminal part of the molecule. <i>Chemical Biology and Drug Design</i> , 1997, 50, 408-414.	1.2	5
92	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. <i>Biotechnology Letters</i> , 2016, 38, 1173-1180.	1.1	5
93	Does Cholinergic Stimulation Affect the P2X7 Receptor-Mediated Dye Uptake in Mast Cells and Macrophages?. <i>Frontiers in Cellular Neuroscience</i> , 2020, 14, 548376.	1.8	5
94	New quinoline derivatives as nicotinic receptor modulators. <i>European Journal of Medicinal Chemistry</i> , 2016, 110, 246-258.	2.6	4
95	Interaction of $\alpha 10$ Nicotinic Receptors With Peptides and Proteins From Animal Venoms. <i>Frontiers in Cellular Neuroscience</i> , 2021, 15, 765541.	1.8	4
96	Editorial: From Peptide and Protein Toxins to Ion Channel Structure/Function and Drug Design. <i>Frontiers in Pharmacology</i> , 2020, 11, 548366.	1.6	3
97	α -Conotoxin Analogs With Enhanced Affinity for Nicotinic Receptors and Acetylcholine-Binding Proteins. <i>Journal of Molecular Neuroscience</i> , 2006, 30, 77-78.	1.1	2
98	PNU120596, a positive allosteric modulator of mammalian $\alpha 7$ nicotinic acetylcholine receptor, is a negative modulator of ligand-gated chloride-selective channels of the gastropod <i>Lymnaea stagnalis</i> . <i>Journal of Neurochemistry</i> , 2020, 155, 274-284.	2.1	2
99	Point Mutations of Nicotinic Receptor $\alpha 1$ Subunit Reveal New Molecular Features of G153S Slow-Channel Myasthenia. <i>Molecules</i> , 2021, 26, 1278.	1.7	2
100	S- and P-type cobra venom cardiotoxins differ in their action on isolated rat heart. <i>Journal of Venomous Animals and Toxins Including Tropical Diseases</i> , 2022, 28, e20210110.	0.8	2
101	Identification of $\alpha 2$ nAChR interaction site with $\alpha 42$ and development of tetrapeptide capable of breaking this interaction. <i>Alzheimer's and Dementia</i> , 2020, 16, e040936.	0.4	1
102	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 753283.	1.6	1