

# Igor E Kasheverov

## List of Publications by Citations

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45  
papers

1,113  
citations

18  
h-index

32  
g-index

47  
ext. papers

1,280  
ext. citations

5.1  
avg, IF

3.8  
L-index

#	Paper	IF	Citations
45	Crystal structure of nicotinic acetylcholine receptor homolog AChBP in complex with an alpha-conotoxin PnIA variant. <i>Nature Structural and Molecular Biology</i> , <b>2005</b> , 12, 582-8	17.6	287
44	NMR structure and action on nicotinic acetylcholine receptors of water-soluble domain of human LYNX1. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 10618-27	5.4	68
43	Polypeptide and peptide toxins, magnifying lenses for binding sites in nicotinic acetylcholine receptors. <i>Biochemical Pharmacology</i> , <b>2009</b> , 78, 720-31	6	64
42	Naturally occurring disulfide-bound dimers of three-fingered toxins: a paradigm for biological activity diversification. <i>Journal of Biological Chemistry</i> , <b>2008</b> , 283, 14571-80	5.4	63
41	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of $\alpha 7$ Nicotinic Acetylcholine Receptor. <i>PLoS ONE</i> , <b>2016</b> , 11, e0149733	3.7	51
40	Naturally occurring and synthetic peptides acting on nicotinic acetylcholine receptors. <i>Current Pharmaceutical Design</i> , <b>2009</b> , 15, 2430-52	3.3	40
39	Neurotoxins from snake venoms and $\beta$ -conotoxin Iml inhibit functionally active ionotropic $\gamma$ -aminobutyric acid (GABA) receptors. <i>Journal of Biological Chemistry</i> , <b>2015</b> , 290, 22747-58	5.4	38
38	Water-soluble LYNX1 residues important for interaction with muscle-type and/or neuronal nicotinic receptors. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 15888-99	5.4	38
37	From crystal structure of $\beta$ -conotoxin G1C in complex with Ac-AChBP to molecular determinants of its high selectivity for $\beta 2$ nAChR. <i>Scientific Reports</i> , <b>2016</b> , 6, 22349	4.9	35
36	Alpha-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> , <b>2006</b> , 273, 4470-81	5.7	29
35	Dimeric $\beta$ -cobratoxin X-ray structure: localization of intermolecular disulfides and possible mode of binding to nicotinic acetylcholine receptors. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 6725-34	5.4	28
34	Crystal Structure of the Monomeric Extracellular Domain of $\alpha 7$ Nicotinic Receptor Subunit in Complex With $\beta$ -Conotoxin RgIA: Molecular Dynamics Insights Into RgIA Binding to $\alpha 7 \beta 10$ Nicotinic Receptors. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 474	5.6	25
33	Design of new $\beta$ -conotoxins: from computer modeling to synthesis of potent cholinergic compounds. <i>Marine Drugs</i> , <b>2011</b> , 9, 1698-714	6	24
32	Inhibition of nicotinic acetylcholine receptors, a novel facet in the pleiotropic activities of snake venom phospholipases A2. <i>PLoS ONE</i> , <b>2014</b> , 9, e115428	3.7	24
31	Natural compounds interacting with nicotinic acetylcholine receptors: from low-molecular weight ones to peptides and proteins. <i>Toxins</i> , <b>2015</b> , 7, 1683-701	4.9	23
30	Marine natural products acting on the acetylcholine-binding protein and nicotinic receptors: from computer modeling to binding studies and electrophysiology. <i>Marine Drugs</i> , <b>2014</b> , 12, 1859-75	6	22
29	High-Affinity $\beta$ -Conotoxin PnIA Analogs Designed on the Basis of the Protein Surface Topography Method. <i>Scientific Reports</i> , <b>2016</b> , 6, 36848	4.9	20

28	Interaction of alpha-conotoxin ImII and its analogs with nicotinic receptors and acetylcholine-binding proteins: additional binding sites on Torpedo receptor. <i>Journal of Neurochemistry</i> , <b>2009</b> , 111, 934-44	6	19
27	Pancreatic and snake venom presynaptically active phospholipases A2 inhibit nicotinic acetylcholine receptors. <i>PLoS ONE</i> , <b>2017</b> , 12, e0186206	3.7	16
26	Central loop of non-conventional toxin WTX from <i>Naja kaouthia</i> is important for interaction with nicotinic acetylcholine receptors. <i>Toxicon</i> , <b>2016</b> , 119, 274-9	2.8	16
25	Interaction of Synthetic Human SLURP-1 with the Nicotinic Acetylcholine Receptors. <i>Scientific Reports</i> , <b>2017</b> , 7, 16606	4.9	16
24	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> , <b>1998</b> , 253, 229-35		15
23	Novel long-chain neurotoxins from distinguish the two binding sites in muscle-type nicotinic acetylcholine receptors. <i>Biochemical Journal</i> , <b>2019</b> , 476, 1285-1302	3.8	13
22	Isomerization of Asp7 in Beta-Amyloid Enhances Inhibition of the $\alpha$ Nicotinic Receptor and Promotes Neurotoxicity. <i>Cells</i> , <b>2019</b> , 8,	7.9	13
21	alpha-Conotoxin GI benzoylphenylalanine derivatives. (1)H-NMR structures and photoaffinity labeling of the <i>Torpedo californica</i> nicotinic acetylcholine receptor. <i>FEBS Journal</i> , <b>2006</b> , 273, 1373-88	5.7	13
20	Species specificity of rat and human $\alpha$ nicotinic acetylcholine receptors towards different classes of peptide and protein antagonists. <i>Neuropharmacology</i> , <b>2018</b> , 139, 226-237	5.5	12
19	Photoactivatable alpha-conotoxins reveal contacts with all subunits as well as antagonist-induced rearrangements in the <i>Torpedo californica</i> acetylcholine receptor. <i>FEBS Journal</i> , <b>2001</b> , 268, 3664-73		12
18	Curare alkaloids from Matis Dart Poison: Comparison with d-tubocurarine in interactions with nicotinic, 5-HT3 serotonin and GABAA receptors. <i>PLoS ONE</i> , <b>2019</b> , 14, e0210182	3.7	11
17	From Synthetic Fragments of Endogenous Three-Finger Proteins to Potential Drugs. <i>Frontiers in Pharmacology</i> , <b>2019</b> , 10, 748	5.6	8
16	Three-finger proteins from snakes and humans acting on nicotinic receptors: Old and new. <i>Journal of Neurochemistry</i> , <b>2021</b> , 158, 1223-1235	6	8
15	Oligoarginine Peptides, a New Family of Nicotinic Acetylcholine Receptor Inhibitors. <i>Molecular Pharmacology</i> , <b>2019</b> , 96, 664-673	4.3	7
14	A comparative study on selectivity of alpha-conotoxins GI and ImI using their synthetic analogues and derivatives. <i>Neurochemical Research</i> , <b>2003</b> , 28, 599-606	4.6	7
13	High Selectivity of an $\alpha$ Conotoxin LvIA Analogue for $\beta\beta$ Nicotinic Acetylcholine Receptors Is Mediated by $\alpha$ Functionally Important Residues. <i>Journal of Medicinal Chemistry</i> , <b>2020</b> , 63, 13656-13668	8.3	7
12	Complex approach for analysis of snake venom $\beta$ neurotoxins binding to HAP, the high-affinity peptide. <i>Scientific Reports</i> , <b>2020</b> , 10, 3861	4.9	6
11	Scorpion toxins interact with nicotinic acetylcholine receptors. <i>FEBS Letters</i> , <b>2019</b> , 593, 2779-2789	3.8	6

10	Arachidonoylcholine and Other Unsaturated Long-Chain Acylcholines Are Endogenous Modulators of the Acetylcholine Signaling System. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	5
9	Substance P derivatives with photoactivatable labels in the N-terminal part of the molecule. <i>Chemical Biology and Drug Design</i> , <b>1997</b> , 50, 408-14		4
8	$\alpha 10$ nicotinic acetylcholine receptors regulate murine bone marrow granulocyte functions. <i>Immunobiology</i> , <b>2021</b> , 226, 152047	3.4	4
7	Marine Origin Ligands of Nicotinic Receptors: Low Molecular Compounds, Peptides and Proteins for Fundamental Research and Practical Applications.. <i>Biomolecules</i> , <b>2022</b> , 12,	5.9	3
6	Development of a recombinant immunotoxin for the immunotherapy of autoreactive lymphocytes expressing MOG-specific BCRs. <i>Biotechnology Letters</i> , <b>2016</b> , 38, 1173-80	3	3
5	Novel Three-Finger Neurotoxins from Cobra Venom Interact with GABA and Nicotinic Acetylcholine Receptors. <i>Toxins</i> , <b>2021</b> , 13,	4.9	3
4	Point Mutations of Nicotinic Receptor $\alpha$ Subunit Reveal New Molecular Features of G153S Slow-Channel Myasthenia. <i>Molecules</i> , <b>2021</b> , 26,	4.8	2
3	Scope and limitations of pseudoproline as individual amino acids in peptide synthesis. <i>Amino Acids</i> , <b>2021</b> , 53, 665-671	3.5	1
2	Interaction of $\alpha 10$ Nicotinic Receptors With Peptides and Proteins From Animal Venoms.. <i>Frontiers in Cellular Neuroscience</i> , <b>2021</b> , 15, 765541	6.1	0
1	Snake Toxins Labeled by Green Fluorescent Protein or Its Synthetic Chromophore are New Probes for Nicotinic acetylcholine Receptors.. <i>Frontiers in Molecular Biosciences</i> , <b>2021</b> , 8, 753283	5.6	