

Ekaterina Lyukmanova

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77 papers	1,368 citations	22 h-index	34 g-index
85 ext. papers	1,601 ext. citations	3.8 avg, IF	4.05 L-index

#	Paper	IF	Citations
77	Lipid-protein nanodiscs for cell-free production of integral membrane proteins in a soluble and folded state: comparison with detergent micelles, bicelles and liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012 , 1818, 349-58	3.8	80
76	Lipid-protein nanodiscs as reference medium in detergent screening for high-resolution NMR studies of integral membrane proteins. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5628-9	16.4	75
75	NMR structure and action on nicotinic acetylcholine receptors of water-soluble domain of human LYNX1. <i>Journal of Biological Chemistry</i> , 2011 , 286, 10618-27	5.4	68
74	NMR structural and dynamical investigation of the isolated voltage-sensing domain of the potassium channel KvAP: implications for voltage gating. <i>Journal of the American Chemical Society</i> , 2010 , 132, 5630-7	16.4	59
73	Divalent cation coordination and mode of membrane interaction in cyclotides: NMR spatial structure of ternary complex Kalata B7/Mn2+/DPC micelle. <i>Journal of Inorganic Biochemistry</i> , 2008 , 102, 1246-56	4.2	52
72	Lipid-protein nanoscale bilayers: a versatile medium for NMR investigations of membrane proteins and membrane-active peptides. <i>Journal of the American Chemical Society</i> , 2008 , 130, 2140-1	16.4	51
71	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of α 7 Nicotinic Acetylcholine Receptor. <i>PLoS ONE</i> , 2016 , 11, e0149733	3.7	51
70	Predicted bacteriorhodopsin from <i>Exiguobacterium sibiricum</i> is a functional proton pump. <i>FEBS Letters</i> , 2010 , 584, 4193-6	3.8	49
69	Lipid-protein nanodiscs: possible application in high-resolution NMR investigations of membrane proteins and membrane-active peptides. <i>Biochemistry (Moscow)</i> , 2009 , 74, 756-65	2.9	41
68	Lipid-protein nanodiscs promote in vitro folding of transmembrane domains of multi-helical and multimeric membrane proteins. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013 , 1828, 776-84	3.8	40
67	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, 22747-58	5.4	38
66	Structural and functional characterization of alternative transmembrane domain conformations in VEGF receptor 2 activation. <i>Structure</i> , 2014 , 22, 1077-1089	5.2	38
65	Water-soluble LYNX1 residues important for interaction with muscle-type and/or neuronal nicotinic receptors. <i>Journal of Biological Chemistry</i> , 2013 , 288, 15888-99	5.4	38
64	Spatial structure and dimer--monomer equilibrium of the ErbB3 transmembrane domain in DPC micelles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011 , 1808, 2081-8	3.8	34
63	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, 23616-30	5.4	28
62	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, 1923-34	4	28
61	NMR-based approach to measure the free energy of transmembrane helix-helix interactions. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014 , 1838, 164-72	3.8	27

60	Three-Finger Proteins from the Ly6/uPAR Family: Functional Diversity within One Structural Motif. <i>Biochemistry (Moscow)</i> , 2017 , 82, 1702-1715	2.9	26
59	Specific membrane binding of neurotoxin II can facilitate its delivery to acetylcholine receptor. <i>Biophysical Journal</i> , 2009 , 97, 2089-97	2.9	26
58	Bacterial expression, NMR, and electrophysiology analysis of chimeric short/long-chain alpha-neurotoxins acting on neuronal nicotinic receptors. <i>Journal of Biological Chemistry</i> , 2007 , 282, 24784-91	5.4	26
57	Human secreted proteins SLURP-1 and SLURP-2 control the growth of epithelial cancer cells via interactions with nicotinic acetylcholine receptors. <i>British Journal of Pharmacology</i> , 2018 , 175, 1973-1986	8.6	25
56	Secreted Isoform of Human Lynx1 (SLURP-2): Spatial Structure and Pharmacology of Interactions with Different Types of Acetylcholine Receptors. <i>Scientific Reports</i> , 2016 , 6, 30698	4.9	24
55	Loop 3 of short neurotoxin II is an additional interaction site with membrane-bound nicotinic acetylcholine receptor as detected by solid-state NMR spectroscopy. <i>Journal of Molecular Biology</i> , 2009 , 390, 662-71	6.5	22
54	Lipid-Protein Nanodiscs Offer New Perspectives for Structural and Functional Studies of Water-Soluble Membrane-Active Peptides. <i>Acta Naturae</i> , 2014 , 6, 84-94	2.1	22
53	Water-soluble variant of human Lynx1 induces cell cycle arrest and apoptosis in lung cancer cells via modulation of α 5 nicotinic acetylcholine receptors. <i>PLoS ONE</i> , 2019 , 14, e0217339	3.7	20
52	Lynx1 and α 4-2 bind competitively to multiple nicotinic acetylcholine receptor subtypes. <i>Neurobiology of Aging</i> , 2016 , 46, 13-21	5.6	20
51	Caloric restriction triggers morphofunctional remodeling of astrocytes and enhances synaptic plasticity in the mouse hippocampus. <i>Cell Death and Disease</i> , 2020 , 11, 208	9.8	19
50	Structural investigation of influenza virus hemagglutinin membrane-anchoring peptide. <i>Protein Engineering, Design and Selection</i> , 2013 , 26, 547-52	1.9	19
49	Human neuromodulator SLURP-1: bacterial expression, binding to muscle-type nicotinic acetylcholine receptor, secondary structure, and conformational heterogeneity in solution. <i>Biochemistry (Moscow)</i> , 2013 , 78, 204-11	2.9	18
48	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. <i>Acta Naturae</i> , 2014 , 6, 60-66	2.1	18
47	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, 274-9	2.8	16
46	Towards universal approach for bacterial production of three-finger Ly6/uPAR proteins: Case study of cytotoxin I from cobra <i>N. oxiana</i> . <i>Protein Expression and Purification</i> , 2017 , 130, 13-20	2	16
45	Bacterial production and refolding from inclusion bodies of a "weak" toxin, a disulfide rich protein. <i>Biochemistry (Moscow)</i> , 2009 , 74, 1142-9	2.9	16
44	Peptaibol antiameobin I: spatial structure, backbone dynamics, interaction with bicelles and lipid-protein nanodiscs, and pore formation in context of barrel-stave model. <i>Chemistry and Biodiversity</i> , 2013 , 10, 838-63	2.5	14
43	Spider toxin inhibits gating pore currents underlying periodic paralysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, 4495-4500	11.5	13

42	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. <i>Acta Naturae</i> , 2014 , 6, 60-6	2.1	13
41	Structure of membrane-active toxin from crab spider <i>Heriades melloteei</i> suggests parallel evolution of sodium channel gating modifiers in Araneomorphae and Mygalomorphae. <i>Journal of Biological Chemistry</i> , 2015 , 290, 492-504	5.4	12
40	Multiple Modulation of Acid-Sensing Ion Channel 1a by the Alkaloid Daurisoline. <i>Biomolecules</i> , 2019 , 9,	5.9	12
39	Lipid-protein nanodiscs offer new perspectives for structural and functional studies of water-soluble membrane-active peptides. <i>Acta Naturae</i> , 2014 , 6, 84-94	2.1	12
38	Water-soluble variant of human Lynx1 positively modulates synaptic plasticity and ameliorates cognitive impairment associated with α -nAChR dysfunction. <i>Journal of Neurochemistry</i> , 2020 , 155, 45-61 ⁶		11
37	N-Terminal Fusion Tags for Effective Production of G-Protein-Coupled Receptors in Bacterial Cell-Free Systems. <i>Acta Naturae</i> , 2012 , 4, 58-64	2.1	10
36	Mambalgins-2 Induces Cell Cycle Arrest and Apoptosis in Glioma Cells via Interaction with ASIC1a. <i>Cancers</i> , 2020 , 12,	6.6	10
35	NMR investigation of the isolated second voltage-sensing domain of human Nav1.4 channel. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017 , 1859, 493-506	3.8	9
34	Resonance assignment of $^{13}\text{C}/^{15}\text{N}$ -labeled snake neurotoxin II from <i>Naja oxiana</i> . <i>Applied Magnetic Resonance</i> , 2003 , 24, 247-254	0.8	9
33	Human secreted protein SLURP-1 abolishes nicotine-induced proliferation, PTEN down-regulation and α -nAChR expression up-regulation in lung cancer cells. <i>International Immunopharmacology</i> , 2020 , 82, 106303	5.8	8
32	Lynx1 Prevents Long-Term Potentiation Blockade and Reduction of Neuromodulator Expression Caused by $\text{A}\beta$ -42 and JNK Activation. <i>Acta Naturae</i> , 2018 , 10, 57-61	2.1	8
31	Structural and Dynamic "Portraits" of Recombinant and Native Cytotoxin I from <i>Naja oxiana</i> : How Close Are They?. <i>Biochemistry</i> , 2017 , 56, 4468-4477	3.2	5
30	Recombinant production and structural studies of the human Lypd6 and Lypd6b proteins. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 644-652	1	5
29	Structural Diversity and Dynamics of Human Three-Finger Proteins Acting on Nicotinic Acetylcholine Receptors. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	5
28	Human Nicotinic Acetylcholine Receptors: Part I Structure, Function, and Role in Neuromuscular Transmission and CNS Functioning. <i>Russian Journal of Bioorganic Chemistry</i> , 2018 , 44, 595-607	1	5
27	Animal, Herb, and Microbial Toxins for Structural and Pharmacological Study of Acid-Sensing Ion Channels. <i>Frontiers in Pharmacology</i> , 2020 , 11, 991	5.6	4
26	CombLabel: rational design of optimized sequence-specific combinatorial labeling schemes. Application to backbone assignment of membrane proteins with low stability. <i>Journal of Biomolecular NMR</i> , 2019 , 73, 531-544	3	4
25	A Large-Scale Expression in <i>Escherichia coli</i> of Neurotoxin II from <i>Naja oxiana</i> Fused with Thioredoxin. <i>Russian Journal of Bioorganic Chemistry</i> , 2004 , 30, 25-34	1	4

24	Human Nicotinic Acetylcholine Receptors: Part II. Non-Neuronal Cholinergic System. <i>Russian Journal of Bioorganic Chemistry</i> , 2019 , 45, 66-75	1	3
23	Divide and conquer approach to the structural studies of multidomain ion channels by the example of isolated voltage sensing domains of human Kv2.1 and Nav1.4 channels. <i>Russian Journal of Bioorganic Chemistry</i> , 2017 , 43, 634-643	1	3
22	N-terminal fusion tags for effective production of g-protein-coupled receptors in bacterial cell-free systems. <i>Acta Naturae</i> , 2012 , 4, 58-64	2.1	3
21	Lynx1 Prevents Long-Term Potentiation Blockade and Reduction of Neuromodulator Expression Caused by A β -42 and JNK Activation. <i>Acta Naturae</i> , 2018 , 10, 57-61	2.1	3
20	Engineering of Chimeric Protein Based on E Protein Domain III of Tick- Borne Encephalitis Virus and OmpF Porin of Yersinia pseudotuberculosis. <i>Protein and Peptide Letters</i> , 2017 , 24, 974-981	1.9	3
19	Cell-Free Expression of Sodium Channel Domains for Pharmacology Studies. Noncanonical Spider Toxin Binding Site in the Second Voltage-Sensing Domain of Human Na1.4 Channel. <i>Frontiers in Pharmacology</i> , 2019 , 10, 953	5.6	2
18	ASIC1a Inhibitor mambalgin-2 Suppresses the Growth of Leukemia Cells by Cell Cycle Arrest. <i>Acta Naturae</i> , 2020 , 12, 101-116	2.1	2
17	ASIC1a Inhibitor mambalgin-2 Suppresses the Growth of Leukemia Cells by Cell Cycle Arrest. <i>Acta Naturae</i> , 2020 , 12, 111-116	2.1	2
16	Recombinant Analogue of the Human Protein SLURP-1 Inhibits the Growth of U251 MG and A172 Glioma Cells. <i>Doklady Biochemistry and Biophysics</i> , 2020 , 493, 211-214	0.8	2
15	Interaction of three-finger proteins from snake venoms and from mammalian brain with the cys-loop receptors and their models. <i>Doklady Biochemistry and Biophysics</i> , 2016 , 468, 193-6	0.8	2
14	Recombinant Production, Reconstruction in Lipid-Protein Nanodiscs, and Electron Microscopy of Full-Length β Subunit of Human Potassium Channel Kv7.1. <i>Biochemistry (Moscow)</i> , 2018 , 83, 562-573	2.9	2
13	Biochemical Basis of Skin Disease Mal de Meleda: SLURP-1 Mutants Differently Affect Keratinocyte Proliferation and Apoptosis. <i>Journal of Investigative Dermatology</i> , 2021 , 141, 2229-2237	4.3	2
12	Recombinant Production and Structure-Function Study of the Ts1 Toxin from the Brazilian Scorpion Tityus serrulatus. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 484, 9-12	0.8	1
11	Bacterial Production and Structural Study of Human Neuromodulator Lynx2. <i>Russian Journal of Bioorganic Chemistry</i> , 2020 , 46, 1261-1269	1	1
10	Spatial structure and oligomerization of viscotoxin A3 in detergent micelles: Implication for mechanisms of ion channel formation and membrane lysis. <i>Biochemical and Biophysical Research Communications</i> , 2021 , 585, 22-28	3.4	1
9	An astrocytic basis of caloric restriction action on the brain plasticity		1
8	Recombinant Analogue of the Human Protein SLURP-1 Inhibits the Growth of Multicellular Spheroids Reconstructed from Carcinoma Cells. <i>Doklady Biochemistry and Biophysics</i> , 2019 , 489, 392-395	0.8	1
7	Mambalgin-2 Inhibits Growth, Migration, and Invasion of Metastatic Melanoma Cells by Targeting the Channels Containing an ASIC1a Subunit Whose Up-Regulation Correlates with Poor Survival Prognosis. <i>Biomedicines</i> , 2021 , 9,	4.8	1

6	Extracellular Vesicles Derived from Acidified Metastatic Melanoma Cells Stimulate Growth, Migration, and Stemness of Normal Keratinocytes.. <i>Biomedicines</i> , 2022 , 10,	4.8	1
5	Efficient screening of ligand-receptor complex formation using fluorescence labeling and size-exclusion chromatography. <i>Biochemical and Biophysical Research Communications</i> , 2020 , 532, 127-133	3.4	0
4	SLURP-1 Controls Growth and Migration of Lung Adenocarcinoma Cells, Forming a Complex With α -nAChR and PDGFR/EGFR Heterodimer. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 739391	5.7	0
3	Human Three-Finger Protein Lypd6 Is a Negative Modulator of the Cholinergic System in the Brain. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 662227	5.7	0
2	Cell-free Production of the Extracellular Domain of the Nicotinic Acetylcholine Receptor. <i>Acta Naturae</i> , 2009 , 1, 96-8	2.1	
1	Voltage-Sensing Domain of the Third Repeat of Human Skeletal Muscle NaV1.4 Channel As a New Target for Spider Gating Modifier Toxins. <i>Acta Naturae</i> , 2021 , 13, 134-139	2.1	