Ekaterina Lyukmanova

List of Publications by Year in Descending Order

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	Extracellular Vesicles Derived from Acidified Metastatic Melanoma Cells Stimulate Growth, Migration, and Stemness of Normal Keratinocytes.. *Biomedicines*, **2022**, 10,	4.8	1
76	Spatial structure and oligomerization of viscotoxin A3 in detergent micelles: Implication for mechanisms of ion channel formation and membrane lysis. *Biochemical and Biophysical Research Communications*, **2021**, 585, 22-28	3.4	1
75	Voltage-Sensing Domain of the Third Repeat of Human Skeletal Muscle NaV1.4 Channel As a New Target for Spider Gating Modifier Toxins. *Acta Naturae*, **2021**, 13, 134-139	2.1	
74	SLURP-1 Controls Growth and Migration of Lung Adenocarcinoma Cells, Forming a Complex With α7-nAChR and PDGFR/EGFR Heterodimer. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 739391	5.7	0
73	Biochemical Basis of Skin Disease Mal de Meleda: SLURP-1 Mutants Differently Affect Keratinocyte Proliferation and Apoptosis. *Journal of Investigative Dermatology*, **2021**, 141, 2229-2237	4.3	2
72	Human Three-Finger Protein Lypd6 Is a Negative Modulator of the Cholinergic System in the Brain. *Frontiers in Cell and Developmental Biology*, **2021**, 9, 662227	5.7	0
71	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. *Biomedicines*, **2021**, 9,	4.8	1
70	Animal, Herb, and Microbial Toxins for Structural and Pharmacological Study of Acid-Sensing Ion Channels. *Frontiers in Pharmacology*, **2020**, 11, 991	5.6	4
69	Human secreted protein SLURP-1 abolishes nicotine-induced proliferation, PTEN down-regulation and α7-nAChR expression up-regulation in lung cancer cells. *International Immunopharmacology*, **2020**, 82, 106303	5.8	8
68	Caloric restriction triggers morphofunctional remodeling of astrocytes and enhances synaptic plasticity in the mouse hippocampus. *Cell Death and Disease*, **2020**, 11, 208	9.8	19
67	Water-soluble variant of human Lynx1 positively modulates synaptic plasticity and ameliorates cognitive impairment associated with α7-nAChR dysfunction. *Journal of Neurochemistry*, **2020**, 155, 45-61	6	11
66	Bacterial Production and Structural Study of Human Neuromodulator Lynx2. *Russian Journal of Bioorganic Chemistry*, **2020**, 46, 1261-1269	1	1
65	ASIC1a Inhibitor mambalgin-2 Suppresses the Growth of Leukemia Cells by Cell Cycle Arrest. *Acta Naturae*, **2020**, 12, 101-116	2.1	2
64	ASIC1a Inhibitor mambalgin-2 Suppresses the Growth of Leukemia Cells by Cell Cycle Arrest. *Acta Naturae*, **2020**, 12, 111-116	2.1	2
63	Efficient screening of ligand-receptor complex formation using fluorescence labeling and size-exclusion chromatography. *Biochemical and Biophysical Research Communications*, **2020**, 532, 127-133	3.4	0
62	Structural Diversity and Dynamics of Human Three-Finger Proteins Acting on Nicotinic Acetylcholine Receptors. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	5
61	Mambalgin-2 Induces Cell Cycle Arrest and Apoptosis in Glioma Cells via Interaction with ASIC1a. *Cancers*, **2020**, 12,	6.6	10

60	Recombinant Analogue of the Human Protein SLURP-1 Inhibits the Growth of U251 MG and A172 Glioma Cells. *Doklady Biochemistry and Biophysics*, **2020**, 493, 211-214	0.8	2
59	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. *Frontiers in Pharmacology*, **2019**, 10, 953	5.6	2
58	Water-soluble variant of human Lynx1 induces cell cycle arrest and apoptosis in lung cancer cells via modulation of α7 nicotinic acetylcholine receptors. *PLoS ONE*, **2019**, 14, e0217339	3.7	20
57	Recombinant Production and Structure-Function Study of the Ts1 Toxin from the Brazilian Scorpion Tityus serrulatus. *Doklady Biochemistry and Biophysics*, **2019**, 484, 9-12	0.8	1
56	Multiple Modulation of Acid-Sensing Ion Channel 1a by the Alkaloid Daurisoline. *Biomolecules*, **2019**, 9,	5.9	12
55	CombLabel: rational design of optimized sequence-specific combinatorial labeling schemes. Application to backbone assignment of membrane proteins with low stability. *Journal of Biomolecular NMR*, **2019**, 73, 531-544	3	4
54	Human Nicotinic Acetylcholine Receptors: Part II. Non-Neuronal Cholinergic System. *Russian Journal of Bioorganic Chemistry*, **2019**, 45, 66-75	1	3
53	Recombinant Analogue of the Human Protein SLURP-1 Inhibits the Growth of Multicellular Spheroids Reconstructed from Carcinoma Cells. *Doklady Biochemistry and Biophysics*, **2019**, 489, 392-395	0.8	1
52	Human secreted proteins SLURP-1 and SLURP-2 control the growth of epithelial cancer cells via interactions with nicotinic acetylcholine receptors. *British Journal of Pharmacology*, **2018**, 175, 1973-1986	8.6	25
51	Spider toxin inhibits gating pore currents underlying periodic paralysis. *Proceedings of the National Academy of Sciences of the United States of America*, **2018**, 115, 4495-4500	11.5	13
50	Lynx1 Prevents Long-Term Potentiation Blockade and Reduction of Neuromodulator Expression Caused by Aβ1-42 and JNK Activation. *Acta Naturae*, **2018**, 10, 57-61	2.1	3
49	Lynx1 Prevents Long-Term Potentiation Blockade and Reduction of Neuromodulator Expression Caused by Aβ1-42 and JNK Activation. *Acta Naturae*, **2018**, 10, 57-61	2.1	8
48	Human Nicotinic Acetylcholine Receptors: Part I—Structure, Function, and Role in Neuromuscular Transmission and CNS Functioning. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 595-607	1	5
47	Recombinant Production, Reconstruction in Lipid-Protein Nanodiscs, and Electron Microscopy of Full-Length β-Subunit of Human Potassium Channel Kv7.1. *Biochemistry (Moscow)*, **2018**, 83, 562-573	2.9	2
46	NMR investigation of the isolated second voltage-sensing domain of human Nav1.4 channel. *Biochimica Et Biophysica Acta - Biomembranes*, **2017**, 1859, 493-506	3.8	9
45	Structural and Dynamic "Portraits" of Recombinant and Native Cytotoxin I from Naja oxiana: How Close Are They?. *Biochemistry*, **2017**, 56, 4468-4477	3.2	5
44	Towards universal approach for bacterial production of three-finger Ly6/uPAR proteins: Case study of cytotoxin I from cobra N. oxiana. *Protein Expression and Purification*, **2017**, 130, 13-20	2	16
43	Three-Finger Proteins from the Ly6/uPAR Family: Functional Diversity within One Structural Motif. *Biochemistry (Moscow)*, **2017**, 82, 1702-1715	2.9	26

42	Recombinant production and structural studies of the human Lypd6 and Lypd6b proteins. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 644-652	1	5
41	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. *Russian Journal of Bioorganic Chemistry*, **2017**, 43, 634-643	1	3
40	Engineering of Chimeric Protein Based on E Protein Domain III of Tick- Borne Encephalitis Virus and OmpF Porin of Yersinia pseudotuberculosis. *Protein and Peptide Letters*, **2017**, 24, 974-981	1.9	3
39	Secreted Isoform of Human Lynx1 (SLURP-2): Spatial Structure and Pharmacology of Interactions with Different Types of Acetylcholine Receptors. *Scientific Reports*, **2016**, 6, 30698	4.9	24
38	Central loop of non-conventional toxin WTX from Naja kaouthia is important for interaction with nicotinic acetylcholine receptors. *Toxicon*, **2016**, 119, 274-9	2.8	16
37	Lynx1 and Aβ-42 bind competitively to multiple nicotinic acetylcholine receptor subtypes. *Neurobiology of Aging*, **2016**, 46, 13-21	5.6	20
36	Human Secreted Ly-6/uPAR Related Protein-1 (SLURP-1) Is a Selective Allosteric Antagonist of α7 Nicotinic Acetylcholine Receptor. *PLoS ONE*, **2016**, 11, e0149733	3.7	51
35	Interaction of three-finger proteins from snake venoms and from mammalian brain with the cys-loop receptors and their models. *Doklady Biochemistry and Biophysics*, **2016**, 468, 193-6	0.8	2
34	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, 23616-30	5.4	28
33	Neurotoxins from snake venoms and α-conotoxin ImI inhibit functionally active ionotropic γ-aminobutyric acid (GABA) receptors. *Journal of Biological Chemistry*, **2015**, 290, 22747-58	5.4	38
32	Structure of membrane-active toxin from crab spider Heriaeus melloteei suggests parallel evolution of sodium channel gating modifiers in Araneomorphae and Mygalomorphae. *Journal of Biological Chemistry*, **2015**, 290, 492-504	5.4	12
31	NMR-based approach to measure the free energy of transmembrane helix-helix interactions. *Biochimica Et Biophysica Acta - Biomembranes*, **2014**, 1838, 164-72	3.8	27
30	Structural and functional characterization of alternative transmembrane domain conformations in VEGF receptor 2 activation. *Structure*, **2014**, 22, 1077-1089	5.2	38
29	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, 1923-34	4	28
28	Lipid-protein nanodiscs offer new perspectives for structural and functional studies of water-soluble membrane-active peptides. *Acta Naturae*, **2014**, 6, 84-94	2.1	12
27	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. *Acta Naturae*, **2014**, 6, 60-6	2.1	13
26	Lipid-Protein Nanodiscs Offer New Perspectives for Structural and Functional Studies of Water-Soluble Membrane-Active Peptides. *Acta Naturae*, **2014**, 6, 84-94	2.1	22
25	Human SLURP-1 and SLURP-2 Proteins Acting on Nicotinic Acetylcholine Receptors Reduce Proliferation of Human Colorectal Adenocarcinoma HT-29 Cells. *Acta Naturae*, **2014**, 6, 60-66	2.1	18

24	Water-soluble LYNX1 residues important for interaction with muscle-type and/or neuronal nicotinic receptors. *Journal of Biological Chemistry*, **2013**, 288, 15888-99	5.4	38
23	Structural investigation of influenza virus hemagglutinin membrane-anchoring peptide. *Protein Engineering, Design and Selection*, **2013**, 26, 547-52	1.9	19
22	Lipid-protein nanodiscs promote in vitro folding of transmembrane domains of multi-helical and multimeric membrane proteins. *Biochimica Et Biophysica Acta - Biomembranes*, **2013**, 1828, 776-84	3.8	40
21	Human neuromodulator SLURP-1: bacterial expression, binding to muscle-type nicotinic acetylcholine receptor, secondary structure, and conformational heterogeneity in solution. *Biochemistry (Moscow)*, **2013**, 78, 204-11	2.9	18
20	Peptaibol antiamoebin I: spatial structure, backbone dynamics, interaction with bicelles and lipid-protein nanodiscs, and pore formation in context of barrel-stave model. *Chemistry and Biodiversity*, **2013**, 10, 838-63	2.5	14
19	Lipid-protein nanodiscs for cell-free production of integral membrane proteins in a soluble and folded state: comparison with detergent micelles, bicelles and liposomes. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 349-58	3.8	80
18	N-terminal fusion tags for effective production of g-protein-coupled receptors in bacterial cell-free systems. *Acta Naturae*, **2012**, 4, 58-64	2.1	3
17	N-Terminal Fusion Tags for Effective Production of G-Protein-Coupled Receptors in Bacterial Cell-Free Systems. *Acta Naturae*, **2012**, 4, 58-64	2.1	10
16	NMR structure and action on nicotinic acetylcholine receptors of water-soluble domain of human LYNX1. *Journal of Biological Chemistry*, **2011**, 286, 10618-27	5.4	68
15	Spatial structure and dimer--monomer equilibrium of the ErbB3 transmembrane domain in DPC micelles. *Biochimica Et Biophysica Acta - Biomembranes*, **2011**, 1808, 2081-8	3.8	34
14	Lipid-protein nanodiscs as reference medium in detergent screening for high-resolution NMR studies of integral membrane proteins. *Journal of the American Chemical Society*, **2010**, 132, 5628-9	16.4	75
13	NMR structural and dynamical investigation of the isolated voltage-sensing domain of the potassium channel KvAP: implications for voltage gating. *Journal of the American Chemical Society*, **2010**, 132, 5630-7	16.4	59
12	Predicted bacteriorhodopsin from Exiguobacterium sibiricum is a functional proton pump. *FEBS Letters*, **2010**, 584, 4193-6	3.8	49
11	Lipid-protein nanodiscs: possible application in high-resolution NMR investigations of membrane proteins and membrane-active peptides. *Biochemistry (Moscow)*, **2009**, 74, 756-65	2.9	41
10	Bacterial production and refolding from inclusion bodies of a "weak" toxin, a disulfide rich protein. *Biochemistry (Moscow)*, **2009**, 74, 1142-9	2.9	16
9	Loop 3 of short neurotoxin II is an additional interaction site with membrane-bound nicotinic acetylcholine receptor as detected by solid-state NMR spectroscopy. *Journal of Molecular Biology*, **2009**, 390, 662-71	6.5	22
8	Specific membrane binding of neurotoxin II can facilitate its delivery to acetylcholine receptor. *Biophysical Journal*, **2009**, 97, 2089-97	2.9	26
7	Cell-free Production of the Extracellular Domain of the Nicotinic Acetylcholine Receptor. *Acta Naturae*, **2009**, 1, 96-8	2.1	

6	Lipid-protein nanoscale bilayers: a versatile medium for NMR investigations of membrane proteins and membrane-active peptides. *Journal of the American Chemical Society*, **2008**, 130, 2140-1	16.4	51
5	Divalent cation coordination and mode of membrane interaction in cyclotides: NMR spatial structure of ternary complex Kalata B7/Mn2+/DPC micelle. *Journal of Inorganic Biochemistry*, **2008**, 102, 1246-56	4.2	52
4	Bacterial expression, NMR, and electrophysiology analysis of chimeric short/long-chain alpha-neurotoxins acting on neuronal nicotinic receptors. *Journal of Biological Chemistry*, **2007**, 282, 24784-91	5.4	26
3	A Large-Scale Expression in Escherichia coli of Neurotoxin II from Naja oxiana Fused with Thioredoxin. *Russian Journal of Bioorganic Chemistry*, **2004**, 30, 25-34	1	4
2	Resonance assignment of13C□15N-labeled snake neurotoxin II fromNaja oxiana. *Applied Magnetic Resonance*, **2003**, 24, 247-254	0.8	9
1	An astrocytic basis of caloric restriction action on the brain plasticity		1