Tatiana V Ovchinnikova

List of Publications by Year in Descending Order

61 papers	1,196 citations	18 h-index	31 g-index
68 ext. papers	1,513 ext. citations	3.7 avg, IF	4.43 L-index

#	Paper	IF	Citations
61	Immunomodulatory and Allergenic Properties of Antimicrobial Peptides.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
60	Analysis of Antibacterial Action of Mammalian Host-Defense Cathelicidins and Induction of Resistance to Them in M□-Producing Pseudomonas aeruginosa.. *Bulletin of Experimental Biology and Medicine*, **2022**, 172, 447	0.8	1
59	Mechanism of Action and Therapeutic Potential of the □Hairpin Antimicrobial Peptide Capitellacin from the Marine Polychaeta .. *Marine Drugs*, **2022**, 20,	6	3
58	A Novel Proline-Rich Cathelicidin from the Alpaca Vicugna pacos with Potency to Combat Antibiotic-Resistant Bacteria: Mechanism of Action and the Functional Role of the C-Terminal Region. *Membranes*, **2022**, 12, 515	3.8	1
57	Effects of Salinity and Abscisic Acid on Lipid Transfer Protein Accumulation, Suberin Deposition and Hydraulic Conductance in Pea Roots. *Membranes*, **2021**, 11,	3.8	2
56	Dodecapeptide Cathelicidins of Cetartiodactyla: Structure, Mechanism of Antimicrobial Action, and Synergistic Interaction With Other Cathelicidins. *Frontiers in Microbiology*, **2021**, 12, 725526	5.7	1
55	Impact of Different Lipid Ligands on the Stability and IgE-Binding Capacity of the Lentil Allergen Len c 3. *Biomolecules*, **2020**, 10,	5.9	6
54	Structure Elucidation and Functional Studies of a Novel □hairpin Antimicrobial Peptide from the Marine Polychaeta. *Marine Drugs*, **2020**, 18,	6	5
53	Specificity of human natural antibodies referred to as anti-Tn. *Molecular Immunology*, **2020**, 120, 74-82	4.3	10
52	Interaction between the Lentil Lipid Transfer Protein Lc-LTP2 and Its Novel Signal Ligand PI(4,5)P2. *Membranes*, **2020**, 10,	3.8	3
51	Caprine Bactenecins as Promising Tools for Developing New Antimicrobial and Antitumor Drugs. *Frontiers in Cellular and Infection Microbiology*, **2020**, 10, 552905	5.9	6
50	Antimicrobial Peptide Arenicin-1 Derivative Ar-1-(C/A) as Complement System Modulator. *Marine Drugs*, **2020**, 18,	6	4
49	Redesigning Arenicin-1, an Antimicrobial Peptide from the Marine Polychaeta , by Strand Rearrangement or Branching, Substitution of Specific Residues, and Backbone Linearization or Cyclization. *Marine Drugs*, **2019**, 17,	6	15
48	Pediocin-Like Antimicrobial Peptides of Bacteria. *Biochemistry (Moscow)*, **2019**, 84, 464-478	2.9	16
47	Peptides of the Innate Immune System of Plants. Part II. Biosynthesis, Biological Functions, and Possible Practical Applications. *Russian Journal of Bioorganic Chemistry*, **2019**, 45, 55-65	1	6
46	Role of Pea LTPs and Abscisic Acid in Salt-Stressed Roots. *Biomolecules*, **2019**, 10,	5.9	4
45	Plant Defensins: Structure, Functions, Biosynthesis, and the Role in the Immune Response. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 261-278	1	7

44	Comparative in vitro study on cytotoxicity of recombinant Ꞵhairpin peptides. *Chemical Biology and Drug Design*, **2018**, 91, 294-303	2.9	16
43	Plant Pathogenesis-Related Proteins Binding Lipids and Other Hydrophobic Ligands. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 586-594	1	5
42	Peptides of the Innate Immune System of Plants. Part I. Structure, Biological Activity, and Mechanisms of Action. *Russian Journal of Bioorganic Chemistry*, **2018**, 44, 573-585	1	6
41	Novel Antimicrobial Peptides from the Arctic Polychaeta Provide New Molecular Insight into Biological Role of the BRICHOS Domain. *Marine Drugs*, **2018**, 16,	6	14
40	Anticancer Activity of the Goat Antimicrobial Peptide ChMAP-28. *Frontiers in Pharmacology*, **2018**, 9, 1501	5.6	10
39	Modulation of Human Complement System by Antimicrobial Peptide Arenicin-1 from. *Marine Drugs*, **2018**, 16,	6	10
38	Combined Antibacterial Effects of Goat Cathelicidins With Different Mechanisms of Action. *Frontiers in Microbiology*, **2018**, 9, 2983	5.7	13
37	Cytotoxic Potential of the Novel Horseshoe Crab Peptide Polyphemusin III. *Marine Drugs*, **2018**, 16,	6	18
36	Improved strategy for recombinant production and purification of antimicrobial peptide tachyplesin I and its analogs with high cell selectivity. *Biotechnology and Applied Biochemistry*, **2017**, 64, 35-42	2.8	19
35	Effect of Arenicins and Other Ꞵ-Hairpin Antimicrobial Peptides on Pseudomonas Aeruginosa PAO1 Biofilms. *Pharmaceutical Chemistry Journal*, **2017**, 50, 715-720	0.9	6
34	Ligand Binding Properties of the Lentil Lipid Transfer Protein: Molecular Insight into the Possible Mechanism of Lipid Uptake. *Biochemistry*, **2017**, 56, 1785-1796	3.2	21
33	Effect of N- and C-Terminal Modifications on Cytotoxic Properties of Antimicrobial Peptide Tachyplesin I. *Bulletin of Experimental Biology and Medicine*, **2017**, 162, 754-757	0.8	11
32	Analysis of Synergistic Effects of Antimicrobial Peptide Arenicin-1 and Conventional Antibiotics. *Bulletin of Experimental Biology and Medicine*, **2017**, 162, 765-768	0.8	8
31	Dimerization of the antimicrobial peptide arenicin plays a key role in the cytotoxicity but not in the antibacterial activity. *Biochemical and Biophysical Research Communications*, **2017**, 482, 1320-1326	3.4	17
30	Marine antimicrobial peptide arenicin adopts a monomeric twisted Ꞵhairpin structure and forms low conductivity pores in zwitterionic lipid bilayers. *Peptide Science*, **2017**, 110, e23093	3	10
29	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. *Nature Communications*, **2017**, 8, 1483	17.4	26
28	A Therapeutic Potential of Animal Ꞵhairpin Antimicrobial Peptides. *Current Medicinal Chemistry*, **2017**, 24, 1724-1746	4.3	17
27	Plant Pathogenesis-Related Proteins PR-10 and PR-14 as Components of Innate Immunity System and Ubiquitous Allergens. *Current Medicinal Chemistry*, **2017**, 24, 1772-1787	4.3	28

26	Bioengineering and functional characterization of arenicin shortened analogs with enhanced antibacterial activity and cell selectivity. *Journal of Peptide Science*, **2016**, 22, 82-91	2.1	14
25	Antimicrobial peptides of invertebrates. Part 1. structure, biosynthesis, and evolution. *Russian Journal of Bioorganic Chemistry*, **2016**, 42, 229-248	1	16
24	Effective lipid-detergent system for study of membrane active peptides in fluid liposomes. *Journal of Peptide Science*, **2016**, 22, 98-105	2.1	2
23	Molecular mechanisms of antitumor effect of natural antimicrobial peptides. *Russian Journal of Bioorganic Chemistry*, **2016**, 42, 575-589	1	4
22	A novel lipid transfer protein from the pea Pisum sativum: isolation, recombinant expression, solution structure, antifungal activity, lipid binding, and allergenic properties. *BMC Plant Biology*, **2016**, 16, 107	5.3	44
21	Antimicrobial peptides of invertebrates. Part 2. biological functions and mechanisms of action. *Russian Journal of Bioorganic Chemistry*, **2016**, 42, 343-360	1	8
20	A novel lipid transfer protein from the dill Anethum graveolens L.: isolation, structure, heterologous expression, and functional characteristics. *Journal of Peptide Science*, **2016**, 22, 59-66	2.1	14
19	Lipid-dependent pore formation by antimicrobial peptides arenicin-2 and melittin demonstrated by their proton transfer activity. *Journal of Peptide Science*, **2015**, 21, 71-6	2.1	9
18	Design of antimicrobial peptide arenicin analogs with improved therapeutic indices. *Journal of Peptide Science*, **2015**, 21, 105-13	2.1	31
17	Heterologous expression and solution structure of defensin from lentil Lens culinaris. *Biochemical and Biophysical Research Communications*, **2014**, 451, 252-7	3.4	14
16	Recombinant production and solution structure of lipid transfer protein from lentil Lens culinaris. *Biochemical and Biophysical Research Communications*, **2013**, 439, 427-32	3.4	23
15	Recombinant expression and solution structure of antimicrobial peptide aurelin from jellyfish Aurelia aurita. *Biochemical and Biophysical Research Communications*, **2012**, 429, 63-9	3.4	31
14	Molecular mechanism of action of β-hairpin antimicrobial peptide arenicin: oligomeric structure in dodecylphosphocholine micelles and pore formation in planar lipid bilayers. *Biochemistry*, **2011**, 50, 6255-65	3.2	63
13	Structure and alignment of the membrane-associated antimicrobial peptide arenicin by oriented solid-state NMR spectroscopy. *Biochemistry*, **2011**, 50, 3784-95	3.2	28
12	Formation of arenicin-1 microdomains in bilayers and their specific lipid interaction revealed by Z-scan FCS. *Analytical and Bioanalytical Chemistry*, **2011**, 399, 3547-54	4.4	6
11	Isolation, structure elucidation, and synergistic antibacterial activity of a novel two-component lantibiotic lichenicidin from Bacillus licheniformis VK21. *Biochemistry*, **2010**, 49, 6462-72	3.2	57
10	Molecular dynamics simulation of antimicrobial peptide arenicin-2: beta-hairpin stabilization by noncovalent interactions. *Biopolymers*, **2009**, 92, 143-55	2.2	31
9	A novel defensin from the lentil Lens culinaris seeds. *Biochemical and Biophysical Research Communications*, **2008**, 371, 860-5	3.4	45

8	Molecular insight into mechanism of antimicrobial action of the beta-hairpin peptide arenicin: specific oligomerization in detergent micelles. *Biopolymers*, **2008**, 89, 455-64	2.2	36
7	Neuroleptic properties of the ion-channel-forming peptaibol zervamicin: locomotor activity and behavioral effects. *Chemistry and Biodiversity*, **2007**, 4, 1374-87	2.5	12
6	Purification and primary structure of novel lipid transfer proteins from germinated lentil (Lens culinaris) seeds. *Biochemistry (Moscow)*, **2007**, 72, 430-8	2.9	17
5	Lactoferrin from canine neutrophils: isolation and physicochemical and antimicrobial properties. *Biochemistry (Moscow)*, **2007**, 72, 445-51	2.9	9
4	Recombinant expression, synthesis, purification, and solution structure of arenicin. *Biochemical and Biophysical Research Communications*, **2007**, 360, 156-62	3.4	57
3	Aurelin, a novel antimicrobial peptide from jellyfish Aurelia aurita with structural features of defensins and channel-blocking toxins. *Biochemical and Biophysical Research Communications*, **2006**, 348, 514-23	3.4	129
2	Purification and primary structure of two isoforms of arenicin, a novel antimicrobial peptide from marine polychaeta Arenicola marina. *FEBS Letters*, **2004**, 577, 209-14	3.8	110
1	Domain structure and ATP-induced conformational changes in Escherichia coli protease Lon revealed by limited proteolysis and autolysis. *FEBS Letters*, **2002**, 526, 66-70	3.8	28