

Tatiana V Ovchinnikova

List of Publications by Citations

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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	Aurelin, a novel antimicrobial peptide from jellyfish <i>Aurelia aurita</i> with structural features of defensins and channel-blocking toxins. <i>Biochemical and Biophysical Research Communications</i> , 2006 , 348, 514-23	3.4	129
60	Purification and primary structure of two isoforms of arenicin, a novel antimicrobial peptide from marine polychaeta <i>Arenicola marina</i> . <i>FEBS Letters</i> , 2004 , 577, 209-14	3.8	110
59	Molecular mechanism of action of hairpin antimicrobial peptide arenicin: oligomeric structure in dodecylphosphocholine micelles and pore formation in planar lipid bilayers. <i>Biochemistry</i> , 2011 , 50, 6253-65	3.25	63
58	Isolation, structure elucidation, and synergistic antibacterial activity of a novel two-component lantibiotic lichenicidin from <i>Bacillus licheniformis</i> VK21. <i>Biochemistry</i> , 2010 , 49, 6462-72	3.2	57
57	Recombinant expression, synthesis, purification, and solution structure of arenicin. <i>Biochemical and Biophysical Research Communications</i> , 2007 , 360, 156-62	3.4	57
56	A novel defensin from the lentil <i>Lens culinaris</i> seeds. <i>Biochemical and Biophysical Research Communications</i> , 2008 , 371, 860-5	3.4	45
55	A novel lipid transfer protein from the pea <i>Pisum sativum</i> : isolation, recombinant expression, solution structure, antifungal activity, lipid binding, and allergenic properties. <i>BMC Plant Biology</i> , 2016 , 16, 107	5.3	44
54	Molecular insight into mechanism of antimicrobial action of the beta-hairpin peptide arenicin: specific oligomerization in detergent micelles. <i>Biopolymers</i> , 2008 , 89, 455-64	2.2	36
53	Design of antimicrobial peptide arenicin analogs with improved therapeutic indices. <i>Journal of Peptide Science</i> , 2015 , 21, 105-13	2.1	31
52	Recombinant expression and solution structure of antimicrobial peptide aurelin from jellyfish <i>Aurelia aurita</i> . <i>Biochemical and Biophysical Research Communications</i> , 2012 , 429, 63-9	3.4	31
51	Molecular dynamics simulation of antimicrobial peptide arenicin-2: beta-hairpin stabilization by noncovalent interactions. <i>Biopolymers</i> , 2009 , 92, 143-55	2.2	31
50	Plant Pathogenesis-Related Proteins PR-10 and PR-14 as Components of Innate Immunity System and Ubiquitous Allergens. <i>Current Medicinal Chemistry</i> , 2017 , 24, 1772-1787	4.3	28
49	Structure and alignment of the membrane-associated antimicrobial peptide arenicin by oriented solid-state NMR spectroscopy. <i>Biochemistry</i> , 2011 , 50, 3784-95	3.2	28
48	Domain structure and ATP-induced conformational changes in <i>Escherichia coli</i> protease Lon revealed by limited proteolysis and autolysis. <i>FEBS Letters</i> , 2002 , 526, 66-70	3.8	28
47	Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. <i>Nature Communications</i> , 2017 , 8, 1483	17.4	26
46	Recombinant production and solution structure of lipid transfer protein from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013 , 439, 427-32	3.4	23
45	Ligand Binding Properties of the Lentil Lipid Transfer Protein: Molecular Insight into the Possible Mechanism of Lipid Uptake. <i>Biochemistry</i> , 2017 , 56, 1785-1796	3.2	21

44	Improved strategy for recombinant production and purification of antimicrobial peptide tachyplesin I and its analogs with high cell selectivity. <i>Biotechnology and Applied Biochemistry</i> , 2017 , 64, 35-42	2.8	19
43	Cytotoxic Potential of the Novel Horseshoe Crab Peptide Polyphemusin III. <i>Marine Drugs</i> , 2018 , 16,	6	18
42	Dimerization of the antimicrobial peptide arenicin plays a key role in the cytotoxicity but not in the antibacterial activity. <i>Biochemical and Biophysical Research Communications</i> , 2017 , 482, 1320-1326	3.4	17
41	A Therapeutic Potential of Animal Hairpin Antimicrobial Peptides. <i>Current Medicinal Chemistry</i> , 2017 , 24, 1724-1746	4.3	17
40	Purification and primary structure of novel lipid transfer proteins from germinated lentil (<i>Lens culinaris</i>) seeds. <i>Biochemistry (Moscow)</i> , 2007 , 72, 430-8	2.9	17
39	Pediocin-Like Antimicrobial Peptides of Bacteria. <i>Biochemistry (Moscow)</i> , 2019 , 84, 464-478	2.9	16
38	Antimicrobial peptides of invertebrates. Part 1. structure, biosynthesis, and evolution. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 229-248	1	16
37	Comparative in vitro study on cytotoxicity of recombinant hairpin peptides. <i>Chemical Biology and Drug Design</i> , 2018 , 91, 294-303	2.9	16
36	Redesigning Arenicin-1, an Antimicrobial Peptide from the Marine Polychaeta, by Strand Rearrangement or Branching, Substitution of Specific Residues, and Backbone Linearization or Cyclization. <i>Marine Drugs</i> , 2019 , 17,	6	15
35	Bioengineering and functional characterization of arenicin shortened analogs with enhanced antibacterial activity and cell selectivity. <i>Journal of Peptide Science</i> , 2016 , 22, 82-91	2.1	14
34	Heterologous expression and solution structure of defensin from lentil <i>Lens culinaris</i> . <i>Biochemical and Biophysical Research Communications</i> , 2014 , 451, 252-7	3.4	14
33	A novel lipid transfer protein from the dill <i>Anethum graveolens</i> L.: isolation, structure, heterologous expression, and functional characteristics. <i>Journal of Peptide Science</i> , 2016 , 22, 59-66	2.1	14
32	Novel Antimicrobial Peptides from the Arctic Polychaeta Provide New Molecular Insight into Biological Role of the BRICHOS Domain. <i>Marine Drugs</i> , 2018 , 16,	6	14
31	Combined Antibacterial Effects of Goat Cathelicidins With Different Mechanisms of Action. <i>Frontiers in Microbiology</i> , 2018 , 9, 2983	5.7	13
30	Neuroleptic properties of the ion-channel-forming peptaibol zervamicin: locomotor activity and behavioral effects. <i>Chemistry and Biodiversity</i> , 2007 , 4, 1374-87	2.5	12
29	Effect of N- and C-Terminal Modifications on Cytotoxic Properties of Antimicrobial Peptide Tachyplesin I. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 754-757	0.8	11
28	Specificity of human natural antibodies referred to as anti-Tn. <i>Molecular Immunology</i> , 2020 , 120, 74-82	4.3	10
27	Marine antimicrobial peptide arenicin adopts a monomeric twisted hairpin structure and forms low conductivity pores in zwitterionic lipid bilayers. <i>Peptide Science</i> , 2017 , 110, e23093	3	10

26	Anticancer Activity of the Goat Antimicrobial Peptide ChMAP-28. <i>Frontiers in Pharmacology</i> , 2018 , 9, 1501	5.6	10
25	Modulation of Human Complement System by Antimicrobial Peptide Arenicin-1 from. <i>Marine Drugs</i> , 2018 , 16,	6	10
24	Lipid-dependent pore formation by antimicrobial peptides arenicin-2 and melittin demonstrated by their proton transfer activity. <i>Journal of Peptide Science</i> , 2015 , 21, 71-6	2.1	9
23	Lactoferrin from canine neutrophils: isolation and physicochemical and antimicrobial properties. <i>Biochemistry (Moscow)</i> , 2007 , 72, 445-51	2.9	9
22	Analysis of Synergistic Effects of Antimicrobial Peptide Arenicin-1 and Conventional Antibiotics. <i>Bulletin of Experimental Biology and Medicine</i> , 2017 , 162, 765-768	0.8	8
21	Antimicrobial peptides of invertebrates. Part 2. biological functions and mechanisms of action. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 343-360	1	8
20	Plant Defensins: Structure, Functions, Biosynthesis, and the Role in the Immune Response. <i>Russian Journal of Bioorganic Chemistry</i> , 2018 , 44, 261-278	1	7
19	Effect of Arenicins and Other Hairpin Antimicrobial Peptides on Pseudomonas Aeruginosa PAO1 Biofilms. <i>Pharmaceutical Chemistry Journal</i> , 2017 , 50, 715-720	0.9	6
18	Impact of Different Lipid Ligands on the Stability and IgE-Binding Capacity of the Lentil Allergen Len c 3. <i>Biomolecules</i> , 2020 , 10,	5.9	6
17	Peptides of the Innate Immune System of Plants. Part II. Biosynthesis, Biological Functions, and Possible Practical Applications. <i>Russian Journal of Bioorganic Chemistry</i> , 2019 , 45, 55-65	1	6
16	Formation of arenicin-1 microdomains in bilayers and their specific lipid interaction revealed by Z-scan FCS. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 399, 3547-54	4.4	6
15	Caprine Bactenecins as Promising Tools for Developing New Antimicrobial and Antitumor Drugs. <i>Frontiers in Cellular and Infection Microbiology</i> , 2020 , 10, 552905	5.9	6
14	Peptides of the Innate Immune System of Plants. Part I. Structure, Biological Activity, and Mechanisms of Action. <i>Russian Journal of Bioorganic Chemistry</i> , 2018 , 44, 573-585	1	6
13	Structure Elucidation and Functional Studies of a Novel Hairpin Antimicrobial Peptide from the Marine Polychaeta. <i>Marine Drugs</i> , 2020 , 18,	6	5
12	Plant Pathogenesis-Related Proteins Binding Lipids and Other Hydrophobic Ligands. <i>Russian Journal of Bioorganic Chemistry</i> , 2018 , 44, 586-594	1	5
11	Role of Pea LTPs and Abscisic Acid in Salt-Stressed Roots. <i>Biomolecules</i> , 2019 , 10,	5.9	4
10	Antimicrobial Peptide Arenicin-1 Derivative Ar-1-(C/A) as Complement System Modulator. <i>Marine Drugs</i> , 2020 , 18,	6	4
9	Molecular mechanisms of antitumor effect of natural antimicrobial peptides. <i>Russian Journal of Bioorganic Chemistry</i> , 2016 , 42, 575-589	1	4

8	Interaction between the Lentil Lipid Transfer Protein Lc-LTP2 and Its Novel Signal Ligand PI(4,5)P2. <i>Membranes</i> , 2020 , 10,	3.8	3
7	Immunomodulatory and Allergenic Properties of Antimicrobial Peptides.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
6	Mechanism of Action and Therapeutic Potential of the Hairpin Antimicrobial Peptide Capitellacin from the Marine Polychaeta .. <i>Marine Drugs</i> , 2022 , 20,	6	3
5	Effective lipid-detergent system for study of membrane active peptides in fluid liposomes. <i>Journal of Peptide Science</i> , 2016 , 22, 98-105	2.1	2
4	Effects of Salinity and Abscisic Acid on Lipid Transfer Protein Accumulation, Suberin Deposition and Hydraulic Conductance in Pea Roots. <i>Membranes</i> , 2021 , 11,	3.8	2
3	Dodecapeptide Cathelicidins of <i>Cetartiodactyla</i> : Structure, Mechanism of Antimicrobial Action, and Synergistic Interaction With Other Cathelicidins. <i>Frontiers in Microbiology</i> , 2021 , 12, 725526	5.7	1
2	Analysis of Antibacterial Action of Mammalian Host-Defense Cathelicidins and Induction of Resistance to Them in β -Lactam-Producing <i>Pseudomonas aeruginosa</i> .. <i>Bulletin of Experimental Biology and Medicine</i> , 2022 , 172, 447	0.8	1
1	A Novel Proline-Rich Cathelicidin from the Alpaca <i>Vicugna pacos</i> with Potency to Combat Antibiotic-Resistant Bacteria: Mechanism of Action and the Functional Role of the C-Terminal Region. <i>Membranes</i> , 2022 , 12, 515	3.8	1