# Tatiana V Ovchinnikova

List of Publications by Year
in descending order



| 67 | 1,767 | 257357 24 | 302012 39 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 68 | 68 | 68 | 1877 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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, 514-523. | 1.0 | 153 |
| 2 | Purification and primary structure of two isoforms of arenicin, a novel antimicrobial peptide from marine polychaetaArenicola marina. FEBS Letters, 2004, 577, 209-214. | 1.3 | 130 |
| 3 | Molecular Mechanism of Action of Î²-Hairpin Antimicrobial Peptide Arenicin: Oligomeric Structure in Dodecylphosphocholine Micelles and Pore Formation in Planar Lipid Bilayers. Biochemistry, 2011, 50, 6255-6265. | 1.2 | 78 |
| 4 | Recombinant expression, synthesis, purification, and solution structure of arenicin. Biochemical and Biophysical Research Communications, 2007, 360, 156-162. | 1.0 | 70 |
| 5 | 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. | 1.6 | 68 |
| 6 | Isolation, Structure Elucidation, and Synergistic Antibacterial Activity of a Novel Two-Component Lantibiotic Lichenicidin from Bacillus licheniformis VK21. Biochemistry, 2010, 49, 6462-6472. | 1.2 | 67 |
| 7 | Network inference from glycoproteomics data reveals new reactions in the IgG glycosylation pathway. Nature Communications, 2017, 8, 1483. | 5.8 | 67 |
| 8 | A novel defensin from the lentil Lens culinaris seeds. Biochemical and Biophysical Research Communications, 2008, 371, 860-865. | 1.0 | 52 |
| 9 | Design of antimicrobial peptide arenicin analogs with improved therapeutic indices. Journal of Peptide Science, 2015, 21, 105-113. | 0.8 | 48 |
| 10 | 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. | 1.2 | 44 |
| 11 | Molecular insight into mechanism of antimicrobial action of the Î²â€hairpin peptide arenicin: Specific oligomerization in detergent micelles. Biopolymers, 2008, 89, 455-464. | 1.2 | 43 |
| 12 | Immunomodulatory and Allergenic Properties of Antimicrobial Peptides. International Journal of Molecular Sciences, 2022, 23, 2499. | 1.8 | 43 |
| 13 | Recombinant expression and solution structure of antimicrobial peptide aurelin from jellyfish Aurelia aurita. Biochemical and Biophysical Research Communications, 2012, 429, 63-69. | 1.0 | 41 |
| 14 | Molecular dynamics simulation of antimicrobial peptide arenicinâ€2: Î²â€Hairpin stabilization by noncovalent interactions. Biopolymers, 2009, 92, 143-155. | 1.2 | 40 |
| 15 | Recombinant production and solution structure of lipid transfer protein from lentil Lens culinaris. Biochemical and Biophysical Research Communications, 2013, 439, 427-432. | 1.0 | 33 |
| 16 | Domain structure and ATP-induced conformational changes inEscherichia coliprotease Lon revealed by limited proteolysis and autolysis. FEBS Letters, 2002, 526, 66-70. | 1.3 | 32 |
| 17 | Structure and Alignment of the Membrane-Associated Antimicrobial Peptide Arenicin by Oriented Solid-State NMR Spectroscopy. Biochemistry, 2011, 50, 3784-3795. | 1.2 | 30 |
| 18 | Comparative in vitro study on cytotoxicity of recombinant Î²â€hairpin peptides. Chemical Biology and Drug Design, 2018, 91, 294-303. | 1.5 | 30 |

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|---|---|---|---|
| 19 | Novel Antimicrobial Peptides from the Arctic Polychaeta Nicomache minor Provide New Molecular Insight into Biological Role of the BRICHOS Domain. Marine Drugs, 2018, 16, 401. | 2.2 | 30 |
| 20 | 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. | 1.4 | 29 |
| 21 | Pediocin-Like Antimicrobial Peptides of Bacteria. Biochemistry (Moscow), 2019, 84, 464-478. | 0.7 | 29 |
| 22 | Redesigning Arenicin-1, an Antimicrobial Peptide from the Marine Polychaeta Arenicola marina, by Strand Rearrangement or Branching, Substitution of Specific Residues, and Backbone Linearization or Cyclization. Marine Drugs, 2019, 17, 376. | 2.2 | 28 |
| 23 | Ligand Binding Properties of the Lentil Lipid Transfer Protein: Molecular Insight into the Possible Mechanism of Lipid Uptake. Biochemistry, 2017, 56, 1785-1796. | 1.2 | 27 |
| 24 | 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. | 1.0 | 26 |
| 25 | Cytotoxic Potential of the Novel Horseshoe Crab Peptide Polyphemusin III. Marine Drugs, 2018, 16, 466. | 2.2 | 26 |
| 26 | A Therapeutic Potential of Animal Î²-hairpin Antimicrobial Peptides. Current Medicinal Chemistry, 2017, 24, 1724-1746. | 1.2 | 24 |
| 27 | Combined Antibacterial Effects of Goat Cathelicidins With Different Mechanisms of Action. Frontiers in Microbiology, 2018, 9, 2983. | 1.5 | 24 |
| 28 | Bioengineering and functional characterization of arenicin shortened analogs with enhanced antibacterial activity and cell selectivity. Journal of Peptide Science, 2016, 22, 82-91. | 0.8 | 22 |
| 29 | Purification and primary structure of novel lipid transfer proteins from germinated lentil (Lens) Tj ETQq1 1 0.784314 rgBT /Overlock 1 | 0.7 | 21 |
| 30 | Antimicrobial peptides of invertebrates. Part 1. structure, biosynthesis, and evolution. Russian Journal of Bioorganic Chemistry, 2016, 42, 229-248. | 0.3 | 21 |
| 31 | 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. | 0.8 | 20 |
| 32 | Mechanism of Action and Therapeutic Potential of the Î²-Hairpin Antimicrobial Peptide Capitellacin from the Marine Polychaeta Capitella teleta. Marine Drugs, 2022, 20, 167. | 2.2 | 20 |
| 33 | Heterologous expression and solution structure of defensin from lentil Lens culinaris. Biochemical and Biophysical Research Communications, 2014, 451, 252-257. | 1.0 | 19 |
| 34 | 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. | 0.3 | 19 |
| 35 | Anticancer Activity of the Goat Antimicrobial Peptide ChMAP-28. Frontiers in Pharmacology, 2018, 9, 1501. | 1.6 | 19 |
| 36 | Modulation of Human Complement System by Antimicrobial Peptide Arenicin-1 from Arenicola marina. Marine Drugs, 2018, 16, 480. | 2.2 | 18 |

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|---|---|---|---|
| 37 | Structure Elucidation and Functional Studies of a Novel Î²-hairpin Antimicrobial Peptide from the Marine Polychaeta Capitella teleta. Marine Drugs, 2020, 18, 620. | 2.2 | 16 |
| 38 | Specificity of human natural antibodies referred to as anti-Tn. Molecular Immunology, 2020, 120, 74-82. | 1.0 | 16 |
| 39 | Structure, Function, and Therapeutic Potential of Marine Bioactive Peptides. Marine Drugs, 2019, 17, 505. | 2.2 | 15 |
| 40 | Impact of Different Lipid Ligands on the Stability and IgE-Binding Capacity of the Lentil Allergen Len c 3. Biomolecules, 2020, 10, 1668. | 1.8 | 15 |
| 41 | Neuroleptic Properties of the Ion-Channel-Forming Peptaibol Zervamicin: Locomotor Activity and Behavioral Effects. Chemistry and Biodiversity, 2007, 4, 1374-1387. | 1.0 | 14 |
| 42 | Analysis of Synergistic Effects of Antimicrobial Peptide Arenicin-1 and Conventional Antibiotics. Bulletin of Experimental Biology and Medicine, 2017, 162, 765-768. | 0.3 | 14 |
| 43 | Lipid-dependent pore formation by antimicrobial peptides arenicin-2 and melittin demonstrated by their proton transfer activity. Journal of Peptide Science, 2015, 21, 71-76. | 0.8 | 12 |
| 44 | Marine antimicrobial peptide arenicin adopts a monomeric twisted Î²â€hairpin structure and forms low conductivity pores in zwitterionic lipid bilayers. Peptide Science, 2018, 110, e23093. | 1.0 | 12 |
| 45 | Plant Pathogenesis-Related Proteins Binding Lipids and Other Hydrophobic Ligands. Russian Journal of Bioorganic Chemistry, 2018, 44, 586-594. | 0.3 | 12 |
| 46 | Caprine Bactenecins as Promising Tools for Developing New Antimicrobial and Antitumor Drugs. Frontiers in Cellular and Infection Microbiology, 2020, 10, 552905. | 1.8 | 12 |
| 47 | Lactoferrin from canine neutrophils: Isolation and physicochemical and antimicrobial properties. Biochemistry (Moscow), 2007, 72, 445-451. | 0.7 | 11 |
| 48 | Antimicrobial Peptide Arenicin-1 Derivative Ar-1-(C/A) as Complement System Modulator. Marine Drugs, 2020, 18, 631. | 2.2 | 11 |
| 49 | Antimicrobial peptides of invertebrates. Part 2. biological functions and mechanisms of action. Russian Journal of Bioorganic Chemistry, 2016, 42, 343-360. | 0.3 | 10 |
| 50 | 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. | 0.3 | 10 |
| 51 | 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. | 0.3 | 10 |
| 52 | Plant Defensins: Structure, Functions, Biosynthesis, and the Role in the Immune Response. Russian Journal of Bioorganic Chemistry, 2018, 44, 261-278. | 0.3 | 9 |
| 53 | Effect of Arenicins and Other Î²-Hairpin Antimicrobial Peptides on Pseudomonas Aeruginosa PAO1 Biofilms. Pharmaceutical Chemistry Journal, 2017, 50, 715-720. | 0.3 | 8 |
| 54 | Role of Pea LTPs and Abscisic Acid in Salt-Stressed Roots. Biomolecules, 2020, 10, 15. | 1.8 | 8 |

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|---|---|---|---|
| 55 | Investigation of Sensitization Potential of the Soybean Allergen Gly m 4 by Using Caco-2/Immune Cells Co-Culture Model. Nutrients, 2021, 13, 2058. | 1.7 | 8 |
| 56 | Effects of Salinity and Abscisic Acid on Lipid Transfer Protein Accumulation, Suberin Deposition and Hydraulic Conductance in Pea Roots. Membranes, 2021, 11, 762. | 1.4 | 8 |
| 57 | Molecular mechanisms of antitumor effect of natural antimicrobial peptides. Russian Journal of Bioorganic Chemistry, 2016, 42, 575-589. | 0.3 | 7 |
| 58 | Formation of arenicin-1 microdomains in bilayers and their specific lipid interaction revealed by Z-scan FCS. Analytical and Bioanalytical Chemistry, 2011, 399, 3547-3554. | 1.9 | 6 |
| 59 | Interaction between the Lentil Lipid Transfer Protein Lc-LTP2 and Its Novel Signal Ligand PI(4,5)P2. Membranes, 2020, 10, 357. | 1.4 | 6 |
| 60 | 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. | 1.4 | 5 |
| 61 | How Do Pollen Allergens Sensitize?. Frontiers in Molecular Biosciences, 0, 9, . | 1.6 | 5 |
| 62 | Dodecapeptide Cathelicidins of Cetartiodactyla: Structure, Mechanism of Antimicrobial Action, and Synergistic Interaction With Other Cathelicidins. Frontiers in Microbiology, 2021, 12, 725526. | 1.5 | 4 |
| 63 | Marine Peptides: Structure, Bioactivities, and a New Hope for Therapeutic Application. Marine Drugs, 2021, 19, 407. | 2.2 | 3 |
| 64 | Effective lipidâ€detergent system for study of membrane active peptides in fluid liposomes. Journal of Peptide Science, 2016, 22, 98-105. | 0.8 | 2 |
| 65 | Do Lipids Influence Gastrointestinal Processing: A Case Study of Major Soybean Allergen Gly m 4. Membranes, 2021, 11, 754. | 1.4 | 2 |
| 66 | Effect of Point Mutations on Structural and Allergenic Properties of the Lentil Allergen Len c 3. Membranes, 2021, 11, 939. | 1.4 | 2 |
| 67 | Analysis of Antibacterial Action of Mammalian Host-Defense Cathelicidins and Induction of Resistance to Them in MÎ²L-Producing Pseudomonas aeruginosa. Bulletin of Experimental Biology and Medicine, 2022, 172, 447-452. | 0.3 | 1 |