

Biswajit Mishra

List of Publications by Year in descending order

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Version: 2024-02-01

49
papers

2,594
citations

186209

28
h-index

223716

46
g-index

49
all docs

49
docs citations

49
times ranked

3302
citing authors

#	ARTICLE	IF	CITATIONS
1	Host defense antimicrobial peptides as antibiotics: design and application strategies. <i>Current Opinion in Chemical Biology</i> , 2017, 38, 87-96.	2.8	249
2	Antimicrobial Peptides in 2014. <i>Pharmaceuticals</i> , 2015, 8, 123-150.	1.7	168
3	Ab Initio Design of Potent Anti-MRSA Peptides Based on Database Filtering Technology. <i>Journal of the American Chemical Society</i> , 2012, 134, 12426-12429.	6.6	147
4	High-quality 3D structures shine light on antibacterial, anti-biofilm and antiviral activities of human cathelicidin LL-37 and its fragments. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2014, 1838, 2160-2172.	1.4	142
5	Antimicrobial functionalization of silicone surfaces with engineered short peptides having broad spectrum antimicrobial and salt-resistant properties. <i>Acta Biomaterialia</i> , 2014, 10, 258-266.	4.1	134
6	Transformation of Human Cathelicidin LL-37 into Selective, Stable, and Potent Antimicrobial Compounds. <i>ACS Chemical Biology</i> , 2014, 9, 1997-2002.	1.6	110
7	Immobilization Studies of an Engineered Arginine-Tryptophan-Rich Peptide on a Silicone Surface with Antimicrobial and Antibiofilm Activity. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 6412-6422.	4.0	93
8	Isolation and characterization of novel protein with anti-fungal and anti-inflammatory properties from Aloe vera leaf gel. <i>International Journal of Biological Macromolecules</i> , 2011, 48, 38-43.	3.6	91
9	Design of Antimicrobial Peptides: Progress Made with Human Cathelicidin LL-37. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1117, 215-240.	0.8	91
10	Low cationicity is important for systemic in vivo efficacy of database-derived peptides against drug-resistant Gram-positive pathogens. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13517-13522.	3.3	89
11	Decoding the Functional Roles of Cationic Side Chains of the Major Antimicrobial Region of Human Cathelicidin LL-37. <i>Antimicrobial Agents and Chemotherapy</i> , 2012, 56, 845-856.	1.4	88
12	Design of short membrane selective antimicrobial peptides containing tryptophan and arginine residues for improved activity, salt-resistance, and biocompatibility. <i>Biotechnology and Bioengineering</i> , 2014, 111, 37-49.	1.7	84
13	Database screening and in vivo efficacy of antimicrobial peptides against methicillin-resistant <i>Staphylococcus aureus</i> USA300. <i>International Journal of Antimicrobial Agents</i> , 2012, 39, 402-406.	1.1	81
14	Site specific immobilization of a potent antimicrobial peptide onto silicone catheters: evaluation against urinary tract infection pathogens. <i>Journal of Materials Chemistry B</i> , 2014, 2, 1706.	2.9	71
15	Anti-Staphylococcal Biofilm Effects of Human Cathelicidin Peptides. <i>ACS Medicinal Chemistry Letters</i> , 2016, 7, 117-121.	1.3	68
16	Design and surface immobilization of short anti-biofilm peptides. <i>Acta Biomaterialia</i> , 2017, 49, 316-328.	4.1	66
17	The Importance of Amino Acid Composition in Natural AMPs: An Evolutional, Structural, and Functional Perspective. <i>Frontiers in Immunology</i> , 2012, 3, 221.	2.2	63
18	Two distinct amphipathic peptide antibiotics with systemic efficacy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19446-19454.	3.3	61

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19	Individual and Combined Effects of Engineered Peptides and Antibiotics on <i>Pseudomonas aeruginosa</i> Biofilms. <i>Pharmaceuticals</i> , 2017, 10, 58.	1.7	55
20	Structural location determines functional roles of the basic amino acids of KR-12, the smallest antimicrobial peptide from human cathelicidin LL-37. <i>RSC Advances</i> , 2013, 3, 19560.	1.7	52
21	A novel antimicrobial peptide derived from modified N-terminal domain of bovine lactoferrin: Design, synthesis, activity against multidrug-resistant bacteria and <i>Candida</i> . <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2013, 1828, 677-686.	1.4	49
22	Titanium surfaces immobilized with the major antimicrobial fragment FK-16 of human cathelicidin LL-37 are potent against multiple antibiotic-resistant bacteria. <i>Biofouling</i> , 2017, 33, 544-555.	0.8	47
23	Antibacterial, antifungal, anticancer activities and structural bioinformatics analysis of six naturally occurring temporins. <i>Peptides</i> , 2018, 106, 9-20.	1.2	46
24	Nanofiber Dressings Topically Delivering Molecularly Engineered Human Cathelicidin Peptides for the Treatment of Biofilms in Chronic Wounds. <i>Molecular Pharmaceutics</i> , 2019, 16, 2011-2020.	2.3	42
25	Structural Basis of Recognition of Pathogen-associated Molecular Patterns and Inhibition of Proinflammatory Cytokines by Camel Peptidoglycan Recognition Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 16208-16217.	1.6	36
26	Amino Acid Composition Determines Peptide Activity Spectrum and Hotâ€špotâ€š-Based Design of Meroicidin. <i>Advanced Biology</i> , 2018, 2, 1700259.	3.0	35
27	Lasioglossin-III: antimicrobial characterization and feasibility study for immobilization applications. <i>RSC Advances</i> , 2013, 3, 9534.	1.7	34
28	The Î€ Configuration of the WWW Motif of a Short Trp-Rich Peptide Is Critical for Targeting Bacterial Membranes, Disrupting Preformed Biofilms, and Killing Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Biochemistry</i> , 2017, 56, 4039-4043.	1.2	30
29	Small lipopeptides possess anti-biofilm capability comparable to daptomycin and vancomycin. <i>RSC Advances</i> , 2015, 5, 59758-59769.	1.7	28
30	Arginine-lysine positional swap of the LL-37 peptides reveals evolutionary advantages of the native sequence and leads to bacterial probes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2017, 1859, 1350-1361.	1.4	27
31	Modulation of antimicrobial potency of human cathelicidin peptides against the ESKAPE pathogens and in vivo efficacy in a murine catheter-associated biofilm model. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2019, 1861, 1592-1602.	1.4	27
32	Development of novel peptide inhibitor of Lipoxygenase based on biochemical and BIAcore evidences. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2008, 1784, 1812-1817.	1.1	24
33	Short and Robust Anti-Infective Lipopeptides Engineered Based on the Minimal Antimicrobial Peptide KR12 of Human LL-37. <i>ACS Infectious Diseases</i> , 2021, 7, 1795-1808.	1.8	24
34	Nafion-HÂ®-catalyzed synthesis of polyhydroquinolines via the Hantzsch multicomponent reaction. <i>Monatshefte FÃ¼r Chemie</i> , 2012, 143, 1675-1680.	0.9	23
35	Immobilization of poly(bia-MPI) by allyl glycidyl ether based brush chemistry to generate a novel antimicrobial surface. <i>Journal of Materials Chemistry B</i> , 2013, 1, 4746.	2.9	21
36	Malignant Schwannoma of the Esophagus: A Rare Case Report. <i>Korean Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 49, 63-66.	0.6	16

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37	Resistome of <i>Staphylococcus aureus</i> in Response to Human Cathelicidin LL-37 and Its Engineered Antimicrobial Peptides. <i>ACS Infectious Diseases</i> , 2020, 6, 1866-1881.	1.8	15
38	Novel Cecropin-4 Derived Peptides against Methicillin-Resistant <i>Staphylococcus aureus</i> . <i>Antibiotics</i> , 2021, 10, 36.	1.5	14
39	Multiligand Specificity of Pathogen-associated Molecular Pattern-binding Site in Peptidoglycan Recognition Protein. <i>Journal of Biological Chemistry</i> , 2011, 286, 31723-31730.	1.6	12
40	SD-8, a novel therapeutic agent active against multidrug-resistant Gram positive cocci. <i>Amino Acids</i> , 2010, 39, 1493-1505.	1.2	10
41	Characterization of Five Novel Anti-MRSA Compounds Identified Using a Whole-Animal <i>Caenorhabditis elegans</i> / <i>Galleria mellonella</i> Sequential-Screening Approach. <i>Antibiotics</i> , 2020, 9, 449.	1.5	9
42	Sequence Permutation Generates Peptides with Different Antimicrobial and Antibiofilm Activities. <i>Pharmaceuticals</i> , 2020, 13, 271.	1.7	8
43	Intein based bioprocess for production of a synthetic antimicrobial peptide: an alternative route to solid phase peptide synthesis. <i>RSC Advances</i> , 2014, 4, 31564-31572.	1.7	7
44	Global transcriptome analysis reveals distinct bacterial response towards soluble and surface-immobilized antimicrobial peptide (Lasioglossin-III). <i>RSC Advances</i> , 2015, 5, 78712-78718.	1.7	3
45	Superior Mesenteric Artery Syndrome in association with Abdominal Tuberculosis: An Eye Opener. <i>The Malaysian Journal of Medical Sciences</i> , 2017, 24, 96-100.	0.3	3
46	Linearized teixobactin is inactive and after sequence enhancement, kills methicillin-resistant <i>Staphylococcus aureus</i> via a different mechanism. <i>Peptide Science</i> , 2022, 114, .	1.0	1
47	Primary renal primitive neuroectodermal tumour causing Budd-Chiari syndrome: a rare case report. <i>BJR case Reports</i> , 2016, 2, 20150184.	0.1	0
48	Mechanism of Action of Tethered Antimicrobial Peptides. , 2018, , 559-566.		0
49	A Substituted Diphenyl Amide Based Novel Scaffold Inhibits Virulence in a Infection Model. <i>Frontiers in Microbiology</i> , 2021, 12, 723133.	1.5	0