Antimicrobial peptides: pore formers or metabolic inhibitors in bacteria?

DOI: 10.1038/nrmicro1098
Nature Reviews Microbiology, 2005, 3, 238-50.

#	Paper	IF	Citations
2304	Reviews and comment from the nature publishing group. **2005**, 5, 261-261		
2303	Immune evasion by staphylococci. *Nature Reviews Microbiology*, **2005**, 3, 948-58	22.2	847
2302	Break on through to the other side-biophysics and cell biology shed light on cell-penetrating peptides. **2005**, 6, 2126-42		210
2301	Antibacterial peptides and proteins with multiple cellular targets. **2005**, 11, 697-706		125
2300	Function and therapeutic potential of host defence peptides. **2005**, 11, 677-87		147
2299	Antimicrobial activities and structures of two linear cationic peptide families with various amphipathic beta-sheet and alpha-helical potentials. **2005**, 49, 4957-64		92
2298	Application of the "codon-shuffling" method. Synthesis and selection of de novo proteins as antibacterials. **2005**, 280, 23605-14		12
2297	Antimicrobial Peptides and Human Disease. **2006**,		7
2296	Design of perfectly symmetric Trp-rich peptides with potent and broad-spectrum antimicrobial activities. **2006**, 27, 325-30		51
2295	Experimental evolution of resistance to an antimicrobial peptide. **2006**, 273, 251-6		268
2294	Peptide antimicrobial agents. **2006**, 19, 491-511		1759
2293	Perspectives on interactions between lactoferrin and bacteria. **2006**, 84, 275-81		43
2292	A spectroscopic study of the membrane interaction of the antimicrobial peptide Pleurocidin. **2006**, 23, 185-94		47
2291	High-field NMR studies of molecular recognition and structure-function relationships in antimicrobial piscidins at the water-lipid bilayer interface. **2006**, 128, 5308-9		34
2290	Insights into in vivo activities of lantibiotics from gallidermin and epidermin mode-of-action studies. **2006**, 50, 1449-57		129
2289	Latarcins, antimicrobial and cytolytic peptides from the venom of the spider Lachesana tarabaevi (Zodariidae) that exemplify biomolecular diversity. **2006**, 281, 20983-20992		121
2288	Beta-turn modified gramicidin S analogues containing arylated sugar amino acids display antimicrobial and hemolytic activity comparable to the natural product. **2006**, 128, 7559-65		55

2287	A male sexually dimorphic trait provides antimicrobials to eggs in blenny fish. **2006**, 2, 330-3	40
2286	Spatial structure and activity mechanism of a novel spider antimicrobial peptide. **2006**, 45, 10759-67	34
2285	Chapter 1 Piercing Lipid Bilayers with Peptides. **2006**, 5, 1-23	2
2284	Membrane association and contact formation by a synthetic analogue of polymyxin B and its fluorescent derivatives. **2006**, 110, 4465-71	29
2283	Effect of natural L- to D-amino acid conversion on the organization, membrane binding, and biological function of the antimicrobial peptides bombinins H. **2006**, 45, 4266-76	84
2282	Osmoprotection of bacterial cells from toxicity caused by antimicrobial hybrid peptide CM15. **2006**, 45, 9997-10007	17
2281	Dual mode of action of Bac7, a proline-rich antibacterial peptide. **2006**, 1760, 1732-40	97
2280	SFG studies on interactions between antimicrobial peptides and supported lipid bilayers. **2006**, 1758, 1257-73	118
2279	Cationic amphipathic histidine-rich peptides for gene delivery. **2006**, 1758, 301-7	91
2278	Peptide-membrane interactions and mechanisms of membrane destruction by amphipathic alpha-helical antimicrobial peptides. **2006**, 1758, 1245-56	350
2277	LL-37, the only human member of the cathelicidin family of antimicrobial peptides. **2006**, 1758, 1408-25	663
2276	Investigating molecular recognition and biological function at interfaces using piscidins, antimicrobial peptides from fish. **2006**, 1758, 1359-72	61
2275	Tryptophan- and arginine-rich antimicrobial peptides: structures and mechanisms of action. **2006**, 1758, 1184-202	673
2274	Different modes in antibiotic action of tritrpticin analogs, cathelicidin-derived Trp-rich and Pro/Arg-rich peptides. **2006**, 1758, 1580-6	36
2273	Interactions of an anionic antimicrobial peptide with Staphylococcus aureus membranes. **2006**, 347, 1006-10	30
2272	Antibacterial peptides for therapeutic use: obstacles and realistic outlook. **2006**, 6, 468-72	755
2271	Hepcidins in amphibians and fishes: Antimicrobial peptides or iron-regulatory hormones?. **2006**, 30, 746-55	127
2270	Effects of linear cationic alpha-helical antimicrobial peptides on immune-relevant genes in trout macrophages. **2006**, 30, 797-806	38

2269	Histamine-releasing and antimicrobial peptides from the skin secretions of the dusky gopher frog, Rana sevosa. **2006**, 27, 1313-9		18
2268	De novo designed cyclic cationic peptides as inhibitors of plant pathogenic bacteria. **2006**, 27, 2567-74		47
2267	Improvement of cyclic decapeptides against plant pathogenic bacteria using a combinatorial chemistry approach. **2006**, 27, 2575-84		49
2266	Structural and functional studies of defensin-inspired peptides. **2006**, 34, 251-256		6
2265	Structural and functional studies of defensin-inspired peptides. **2006**, 34, 251-6		12
2264	The Bacterial Cell Wall. **2006**, 14, 309-317		4
2263	Eukaryotic Antimicrobial Peptides: Promises and Premises in Food Safety. **2006**, 71, R125-R135		82
2262	Effects of polymicrobial communities on host immunity and response. **2006**, 265, 141-50		11
2261	Conformation and mode of membrane interaction in cyclotides. Spatial structure of kalata B1 bound to a dodecylphosphocholine micelle. **2006**, 273, 2658-72		111
2260	Identification of a cowpea gamma-thionin with bactericidal activity. **2006**, 273, 3489-97		76
2259	Food-protein enzymatic hydrolysates possess both antimicrobial and immunostimulatory activities: a "cause and effect" theory of bifunctionality. **2006**, 46, 131-8		35
2258	Comparison of biophysical and biologic properties of alpha-helical enantiomeric antimicrobial peptides. **2006**, 67, 162-73		98
2257	Activity and mode of action against fungal phytopathogens of bovine lactoferricin-derived peptides. **2006**, 101, 1199-207		48
2256	DNA repair, a novel antibacterial target: Holliday junction-trapping peptides induce DNA damage and chromosome segregation defects. **2006**, 59, 1129-48		47
2255	The antimicrobial peptide cathelicidin protects the urinary tract against invasive bacterial infection. **2006**, 12, 636-41		476
2254	Lipid II as a target for antibiotics. **2006**, 5, 321-32		501
2253	The co-evolution of host cationic antimicrobial peptides and microbial resistance. *Nature Reviews Microbiology*, **2006**, 4, 529-36	22.2	753
2252	Sensing by bacterial regulatory systems in host and non-host environments. *Nature Reviews Microbiology*, **2006**, 4, 705-9	22.2	99

2251	QSAR analysis of antimicrobial and haemolytic effects of cyclic cationic antimicrobial peptides derived from protegrin-1. **2006**, 14, 6065-74	52
2250	Analyses of dose-response curves to compare the antimicrobial activity of model cationic alpha-helical peptides highlights the necessity for a minimum of two activity parameters. **2006**, 350, 81-90	25
2249	Sequence requirements and an optimization strategy for short antimicrobial peptides. **2006**, 13, 1101-7	140
2248	NMR on lipid membranes and their proteins. **2006**, 11, 24-29	16
2247	Potent antibacterial lysine-peptoid hybrids identified from a positional scanning combinatorial library. **2006**, 14, 4444-51	24
2246	Enhanced susceptibility of multidrug resistant strains of Mycobacterium tuberculosis to granulysin peptides correlates with a reduced fitness phenotype. **2006**, 8, 1985-93	20
2245	Antimicrobial activity of inducible human beta defensin-2 against Mycoplasma pneumoniae. **2006**, 52, 435-8	20
2244	Key role of glutamic acid for the cytotoxic activity of the cyclotide cycloviolacin O2. **2006**, 63, 235-45	90
2243	Human beta-defensins. **2006**, 63, 1294-313	383
2242	Characterisation of DEFB107 by mass spectrometry: Lessons from an anti-antimicrobial defensin. **2006**, 252, 180-188	13
2241	Antimicrobial activity of Substance P and Neuropeptide Y against laboratory strains of bacteria and oral microorganisms. **2006**, 177, 215-8	42
2240	A Fourier transformation based method to mine peptide space for antimicrobial activity. **2006**, 7 Suppl 2, S2	6
2239	Modelling study of dimerization in mammalian defensins. **2006**, 7 Suppl 5, S17	24
2238	Full Structural Characterisation of the Lipooligosaccharide of a Burkholderia pyrrocinia Clinical Isolate. **2006**, 2006, 4874-4883	24
2237	The evolution of immune mechanisms. **2006**, 306, 496-520	70
2236	Specific RNA binding to ordered phospholipid bilayers. **2006**, 34, 2128-36	88
2235	Covalent binding of the natural antimicrobial peptide indolicidin to DNA abasic sites. **2006**, 34, 5157-65	105
2234	Novel therapies based on cationic antimicrobial peptides. **2006**, 7, 229-34	46

2233	Anticancer alpha-helical peptides and structure/function relationships underpinning their interactions with tumour cell membranes. **2006**, 7, 487-99	121
2232	Enhanced membrane disruption and antibiotic action against pathogenic bacteria by designed histidine-rich peptides at acidic pH. **2006**, 50, 3305-11	73
2231	Concerted evolution of two novel protein families in Caenorhabditis species. **2006**, 172, 2269-81	26
2230	Fungicidal activity of five cathelicidin peptides against clinically isolated yeasts. **2006**, 58, 950-9	113
2229	Peptidoglycan recognition proteins are a new class of human bactericidal proteins. **2006**, 281, 5895-907	167
2228	Effect of MUC7 peptides on the growth of bacteria and on Streptococcus mutans biofilm. **2006**, 57, 1100-9	161
2227	Activity of cecropin A-melittin hybrid peptides against colistin-resistant clinical strains of Acinetobacter baumannii: molecular basis for the differential mechanisms of action. **2006**, 50, 1251-6	73
2226	Studies on the mode of action of the antifungal hexapeptide PAF26. **2006**, 50, 3847-55	86
2225	Enhancement of antimicrobial activity against pseudomonas aeruginosa by coadministration of G10KHc and tobramycin. **2006**, 50, 3833-8	58
2224	Scale and innovation in the energy sector: a focus on photovoltaics and nuclear fission. **2006**, 1, 014009	21
2223	Quinolones sensitize gram-negative bacteria to antimicrobial peptides. **2006**, 50, 2361-7	26
2222	Interaction of antimicrobial peptide temporin L with lipopolysaccharide in vitro and in experimental rat models of septic shock caused by gram-negative bacteria. **2006**, 50, 2478-86	57
2221	Porphyromonas gingivalis-epithelial cell interactions in periodontitis. **2006**, 85, 392-403	109
2220	A complete lipopolysaccharide inner core oligosaccharide is required for resistance of Burkholderia cenocepacia to antimicrobial peptides and bacterial survival in vivo. **2006**, 188, 2073-80	112
2219	Adding selectivity to antimicrobial peptides: rational design of a multidomain peptide against Pseudomonas spp. **2006**, 50, 1480-8	119
2218	Host antimicrobial defence peptides in human disease. **2006**, 306, 67-90	43
2217	Acyl-substituted dermaseptin S4 derivatives with improved bactericidal properties, including on oral microflora. **2006**, 50, 4153-60	25
2216	Naturally processed dermcidin-derived peptides do not permeabilize bacterial membranes and kill microorganisms irrespective of their charge. **2006**, 50, 2608-20	89

2215	Release of LL-37 by activated human Vgamma9Vdelta2 T cells: a microbicidal weapon against Brucella suis. **2006**, 177, 5533-9	36
2214	Characterization of a defensin from the oyster Crassostrea gigas. Recombinant production, folding, solution structure, antimicrobial activities, and gene expression. **2006**, 281, 313-23	147
2213	Eukaryotic control on bacterial cell cycle and differentiation in the Rhizobium-legume symbiosis. **2006**, 103, 5230-5	328
2212	AMPer: a database and an automated discovery tool for antimicrobial peptides. **2007**, 23, 1148-55	173
2211	Antiplasmodial activity of lauryl-lysine oligomers. **2007**, 51, 1753-9	36
2210	Lysosomal killing of Mycobacterium mediated by ubiquitin-derived peptides is enhanced by autophagy. **2007**, 104, 6031-6	265
2209	Novel synthetic antimicrobial peptides against Streptococcus mutans. **2007**, 51, 1351-8	45
2208	Current Topics in Innate Immunity. **2007**,	2
2207	Human defensins: synthesis and structural properties. **2007**, 13, 3096-118	56
2206	Antimicrobial peptides in oral cancer. **2007**, 13, 3119-30	26
2205	Susceptibility of periodontopathogenic and cariogenic bacteria to defensins and potential therapeutic use of defensins in oral diseases. **2007**, 13, 3084-95	31
2204	The targets of currently used antibacterial agents: lessons for drug discovery. **2007**, 13, 3140-54	80
2203	In vitro susceptibility of Staphylococcus aureus to thrombin-induced platelet microbicidal protein-1 (tPMP-1) is influenced by cell membrane phospholipid composition and asymmetry. **2007**, 153, 1187-1197	79
2202	Structural insights into the bactericidal mechanism of human peptidoglycan recognition proteins. **2007**, 104, 8761-6	73
2201	Reduced mucosal antimicrobial activity in Crohn's disease of the colon. **2007**, 56, 1240-7	109
2200	Antimicrobial peptides derived from growth factors. **2007**, 25, 60-70	64
2199	Infectivity of Lactobacillus rhamnosus and Lactobacillus paracasei isolates in a rat model of experimental endocarditis. **2007**, 56, 1017-1024	22
2198	Clocking out: modeling phage-induced lysis of Escherichia coli. **2007**, 189, 4749-55	19

2197	Activities of antimicrobial peptides and synergy with enrofloxacin against Mycoplasma pulmonis. **2007**, 51, 468-74	48
2196	Trypsin inhibitory loop is an excellent lead structure to design serine protease inhibitors and antimicrobial peptides. **2007**, 21, 2466-73	58
2195	Molecular view by fourier transform infrared spectroscopy of the relationship between lactocin 705 and membranes: speculations on antimicrobial mechanism. **2007**, 73, 415-20	21
2194	Impairment of innate immune killing mechanisms by bacteriostatic antibiotics. **2007**, 21, 1107-16	37
2193	Activity of an antimicrobial peptide mimetic against planktonic and biofilm cultures of oral pathogens. **2007**, 51, 4125-32	117
2192	Observability of the heavy neutral SUSY Higgs bosons decaying into neutralinos at the LHC. **2007**, 34, N1-N12	7
2191	Influence of C-terminal amidation on the antimicrobial and hemolytic activities of cationic α-helical peptides. **2007**, 79, 717-728	68
2190	Anti-infection peptidomics of amphibian skin. **2007**, 6, 882-94	155
2189	Editor's quiz: Sigmoid stricture in a 39-year-old female. **2007**, 56, 1247, 1256	1
2188	New tick defensin isoform and antimicrobial gene expression in response to Rickettsia montanensis challenge. **2007**, 75, 1973-83	48
2187	Genomic organization and evolutionary insights on GRP and NCR genes, two large nodule-specific gene families in Medicago truncatula. **2007**, 20, 1138-48	96
2186	Isolation and characterization of novel peptides from chilli pepper seeds: antimicrobial activities against pathogenic yeasts. **2007**, 50, 600-11	57
2185	High level expression of His-tagged colicin 5 in E. coli and characterization of its narrow-spectrum bactericidal activity and pore-forming action. **2007**, 54, 309-17	6
2184	Jaburetox-2Ec: an insecticidal peptide derived from an isoform of urease from the plant Canavalia ensiformis. **2007**, 28, 2042-50	60
2183	A library of linear undecapeptides with bactericidal activity against phytopathogenic bacteria. **2007**, 28, 2276-85	113
2182	Decoralin, a novel linear cationic alpha-helical peptide from the venom of the solitary eumenine wasp Oreumenes decoratus. **2007**, 28, 2320-7	64
2181	Antifungal activity of C3a and C3a-derived peptides against Candida. **2007**, 1768, 346-53	42
2180	Effects of topology, length, and charge on the activity of a kininogen-derived peptide on lipid membranes and bacteria. **2007**, 1768, 715-27	48

2179	Action mechanism of tachyplesin I and effects of PEGylation. **2007**, 1768, 1160-9	112
2178	PrP106-126 amide causes the semi-penetrated poration in the supported lipid bilayers. **2007**, 1768, 1420-9	40
2177	Solution structures and model membrane interactions of lactoferrampin, an antimicrobial peptide derived from bovine lactoferrin. **2007**, 1768, 2355-64	70
2176	Action mechanism of PEGylated magainin 2 analogue peptide. **2007**, 1768, 2578-85	65
2175	Antimicrobial activity of histidine-rich peptides is dependent on acidic conditions. **2007**, 1768, 2667-80	101
2174	Structural and thermodynamic analyses of the interaction between melittin and lipopolysaccharide. **2007**, 1768, 3282-91	47
2173	Solution structure and membrane interaction mode of an antimicrobial peptide gaegurin 4. **2007**, 352, 592-7	24
2172	Antimicrobial properties of derivatives of the cationic tryptophan-rich hexapeptide PAF26. **2007**, 354, 172-7	49
2171	The chicken host peptides, gallinacins 4, 7, and 9 have antimicrobial activity against Salmonella serovars. **2007**, 356, 169-74	60
2170	Hedistin: A novel antimicrobial peptide containing bromotryptophan constitutively expressed in the NK cells-like of the marine annelid, Nereis diversicolor. **2007**, 31, 749-62	54
2169	The cyclic cystine knot miniprotein MCoTI-II is internalized into cells by macropinocytosis. **2007**, 39, 2252-64	89
2168	A male-specific expression gene, encodes a novel anionic antimicrobial peptide, scygonadin, in Scylla serrata. **2007**, 44, 1961-8	52
2167	Interaction mode of a symmetric Trp-rich undeca peptide PST11-RK with lipid bilayers. **2007**, 581, 157-63	16
2166	Inflammatory bowel disease: cause and immunobiology. **2007**, 369, 1627-40	1278
2165	Role of glycosphingolipid conformational change in membrane pore forming activity of cobra cardiotoxin. **2007**, 46, 12111-23	17
2164	Biaryl amino acid templates in place of D-Pro-L-Pro in cyclic beta-hairpin cationic antimicrobial peptidomimetics. **2007**, 5, 3100-5	18
2163	Antimicrobial activity and protease stability of peptides containing fluorinated amino acids. **2007**, 129, 15615-22	199
2162	Membrane insertion and bilayer perturbation by antimicrobial peptide CM15. **2007**, 93, 1651-60	63

2161	Sterol and pH interdependence in the binding, oligomerization, and pore formation of Listeriolysin O. **2007**, 46, 4425-37	81
2160	Membrane interaction of chrysophsin-1, a histidine-rich antimicrobial peptide from red sea bream. **2007**, 46, 15175-87	39
2159	De novo design of selective antibiotic peptides by incorporation of unnatural amino acids. **2007**, 50, 3026-36	54
2158	Antifungal compounds that target fungal membranes: applications in plant disease control. **2007**, 29, 323-329	45
2157	Lysenin-His, a sphingomyelin-recognizing toxin, requires tryptophan 20 for cation-selective channel assembly but not for membrane binding. **2007**, 24, 121-34	36
2156	Human antimicrobial proteins effectors of innate immunity. **2007**, 13, 317-38	74
2155	Using intrinsic X-ray absorption spectral differences to identify and map peptides and proteins. **2007**, 111, 7691-9	72
2154	Synthetic antimicrobial oligomers induce a composition-dependent topological transition in membranes. **2007**, 129, 12141-7	118
2153	Gram-negative outer and inner membrane models: insertion of cyclic cationic lipopeptides. **2007**, 111, 551-63	104
2152	Comparative study of antimicrobial peptides to control citrus postharvest decay caused by Penicillium digitatum. **2007**, 55, 8170-6	26
2151	Structure and mechanism of action of the antimicrobial peptide piscidin. **2007**, 46, 1771-8	122
2150	Mapping the orientation of helices in micelle-bound peptides by paramagnetic relaxation waves. **2007**, 129, 5228-34	108
2149	Dual-color fluorescence-burst analysis to probe protein efflux through the mechanosensitive channel MscL. **2007**, 92, 1233-40	60
2148	Real-time structural investigation of a lipid bilayer during its interaction with melittin using sum frequency generation vibrational spectroscopy. **2007**, 93, 866-75	82
2147	The lipid dependence of melittin action investigated by dual-color fluorescence burst analysis. **2007** , 93, 154-63	45
2146	Models of beta-amyloid ion channels in the membrane suggest that channel formation in the bilayer is a dynamic process. **2007**, 93, 1938-49	153
2145	Zwitterionic phospholipids and sterols modulate antimicrobial peptide-induced membrane destabilization. **2007**, 93, 4289-99	118
2144	Alternative mechanisms of action of cationic antimicrobial peptides on bacteria. **2007**, 5, 951-9	375

2143	Application of 3D-QSAR for identification of descriptors defining bioactivity of antimicrobial peptides. **2007**, 50, 6545-53	46
2142	Mechanism of action of cytotoxic cyclotides: cycloviolacin O2 disrupts lipid membranes. **2007**, 70, 643-7	115
2141	Molecular mechanism for lipid flip-flops. **2007**, 111, 13554-9	114
2140	Non-metabolic membrane tubulation and permeability induced by bioactive peptides. **2007**, 2, e201	70
2139	. **2007**,	3
2138	ADME investigations of unnatural peptides: distribution of a 14C-labeled beta 3-octaarginine in rats. **2007**, 4, 1413-37	29
2137	Peptidomics of Short Linear Cytolytic Peptides from Spider Venom. 55-70	
2136	Antimicrobial properties of a lipid interactive alpha-helical peptide VP1 against Staphylococcus aureus bacteria. **2007**, 129, 279-83	8
2135	In vitro discriminative antipseudomonal properties resulting from acyl substitution of N-terminal sequence of dermaseptin s4 derivatives. **2007**, 14, 75-85	25
2134	Infectious Disease: Connecting Innate Immunity to Biocidal Polymers. **2007**, 57, 28-64	217
2133	Comparison of interactions between beta-hairpin decapeptides and SDS/DPC micelles from experimental and simulation data. **2007**, 8, 11	19
2132	Biological characterization and modes of action of temporins and bombinins H, multiple forms of short and mildly cationic anti-microbial peptides from amphibian skin. **2007**, 13, 603-13	42
2131	Cathelicidin-derived Trp/Pro-rich antimicrobial peptides with lysine peptoid residue (Nlys): therapeutic index and plausible mode of action. **2007**, 13, 529-35	30
2130	Improved antimicrobial peptides based on acyl-lysine oligomers. **2007**, 25, 657-9	211
2129	Immune regulatory functions of human beta-defensin-2 in odontoblast-like cells. **2007**, 40, 300-7	40
2128	Lysosomal ubiquitin and the demise of Mycobacterium tuberculosis. **2007**, 9, 2768-74	21
2127	Antimicrobial peptides activate the Vibrio cholerae sigmaE regulon through an OmpU-dependent signalling pathway. **2007**, 63, 848-58	80
2126	Role of the Escherichia coli SbmA in the antimicrobial activity of proline-rich peptides. **2007**, 66, 151-63	166

2125	Mechanisms of action of ostrich beta-defensins against Escherichia coli. **2007**, 270, 195-200	25
2124	Antimicrobial peptides and plant disease control. **2007**, 270, 1-11	254
2123	Gomesin, a peptide produced by the spider Acanthoscurria gomesiana, is a potent anticryptococcal agent that acts in synergism with fluconazole. **2007**, 274, 279-86	34
2122	Fowlicidin-3 is an alpha-helical cationic host defense peptide with potent antibacterial and lipopolysaccharide-neutralizing activities. **2007**, 274, 418-28	66
2121	Antimicrobial action of synthetic peptides towards wine spoilage yeasts. **2007**, 118, 318-25	41
2120	Synthetic analogues of antimicrobial peptides from the venom of the Central Asian spider Lachesana tarabaevi. **2007**, 33, 376-382	2
2119	Antimicrobial peptides: an overview of a promising class of therapeutics. **2007**, 2, 1-33	251
2118	Structure--activity study of the antibacterial peptide fallaxin. **2007**, 16, 1969-76	33
2117	Evidence for myxobacterial origin of eukaryotic defensins. **2007**, 59, 949-54	41
2116	Multifunctional antimicrobial peptides: therapeutic targets in several human diseases. **2007**, 85, 317-29	170
2115	Antimicrobial peptides: natural effectors of the innate immune system. **2007**, 29, 27-43	177
2114	Antimicrobial Peptides and their Potential as Oral Therapeutic Agents. **2007**, 13, 505-516	48
2113	Evidence for positive Darwinian selection on the hepcidin gene of Perciform and Pleuronectiform fishes. **2007**, 11, 119-30	45
2112	Application of the Suzuki-Miyaura cross-coupling to increase antimicrobial potency generates promising novel antibacterials. **2007**, 17, 2361-4	39
2111	An Anti-microbial Peptide Derivative of Flesh Fruit Fly Mimics Secretory Signal Sequence and Inhibits Signal Peptidase-I in the Export Pathway. **2008**, 14, 173-181	4
2110	A dynamic view of peptides and proteins in membranes. **2008**, 65, 3028-39	26
2109	Multi-layered regulation of intestinal antimicrobial defense. **2008**, 65, 3019-27	102
2108	Antimicrobial peptides: natural templates for synthetic membrane-active compounds. **2008**, 65, 2450-60	137

2107	Recombinant scorpine: a multifunctional antimicrobial peptide with activity against different pathogens. **2008**, 65, 3081-92	79
2106	Investigations into the ability of the peptide, HAL18, to interact with bacterial membranes. **2008**, 38, 37-43	13
2105	Fluorescence anisotropy analysis of the mechanism of action of mesenterocin 52A: speculations on antimicrobial mechanism. **2008**, 81, 339-47	10
2104	Beta-lactoglobulin as source of bioactive peptides. **2008**, 35, 257-65	163
2103	Identification of novel host defense peptides and the absence of alpha-defensins in the bovine genome. **2008**, 73, 420-30	37
2102	Solution structure, antibacterial activity, and expression profile of Manduca sexta moricin. **2008**, 14, 855-63	23
2101	Bioactive peptides derived from the Limulus anti-lipopolysaccharide factor: structure-activity relationships and formation of mixed peptide/lipid complexes. **2008**, 14, 963-71	7
2100	The interaction of arginine- and tryptophan-rich cyclic hexapeptides with Escherichia coli membranes. **2008**, 14, 535-43	34
2099	Aggregation and membrane permeabilizing properties of designed histidine-containing cationic linear peptide antibiotics. **2008**, 14, 488-95	42
2098	Membrane structure and interactions of a short Lycotoxin I analogue. **2008**, 14, 528-34	15
2097	The pharmacology of radiolabeled cationic antimicrobial peptides. **2008**, 97, 1633-51	17
2096	Viper metalloproteinase (Agkistrodon halys pallas) with antimicrobial activity against multi-drug resistant human pathogens. **2008**, 216, 54-68	19
2095	Structure-activity relationships in beta-defensin peptides. **2008**, 90, 1-7	96
2094	Synthetic antimicrobial peptides as agricultural pesticides for plant-disease control. **2008**, 5, 1225-37	65
2093	Incorporation of a Hydrophobic Antibacterial Peptide into Amphiphilic Polyelectrolyte Multilayers: A Bioinspired Approach to Prepare Biocidal Thin Coatings. **2008**, 18, 758-765	110
2092	De novo designed synthetic mimics of antimicrobial peptides. **2008**, 19, 620-7	154
2091	Cy5 labeled antimicrobial peptides for enhanced detection of Escherichia coli O157:H7. **2008**, 23, 1721-7	55
2090	Synthesis of and evaluation of lipid A modification by 4-substituted 4-deoxy arabinose analogs as potential inhibitors of bacterial polymyxin resistance. **2008**, 18, 1507-10	39

2089	The impact of membrane lipid composition on antimicrobial function of an alpha-helical peptide. **2008**, 151, 92-102	23
2088	Alternative stabilities of a proline-rich antibacterial peptide in vitro and in vivo. **2008**, 17, 1249-55	62
2087	Antimicrobial polymers prepared by ROMP with unprecedented selectivity: a molecular construction kit approach. **2008**, 130, 9836-43	334
2086	Mutation in a gene encoding anti-sigma factor in A. brasilense confers tolerance to elevated temperature, antibacterial peptide and PEG-200 via carotenoid synthesis. **2008**, 287, 221-9	4
2085	Genetic features of circular bacteriocins produced by Gram-positive bacteria. **2008**, 32, 2-22	123
2084	Cell envelope stress response in Gram-positive bacteria. **2008**, 32, 107-46	259
2083	Proteomic and metabolic characterization of a Candida albicans mutant resistant to the antimicrobial peptide MUC7 12-mer. **2008**, 54, 80-91	12
2082	Effects of hydrophobicity on the antifungal activity of alpha-helical antimicrobial peptides. **2008**, 72, 483-95	61
2081	Human beta-defensin 3 binds to hemagglutinin B (rHagB), a non-fimbrial adhesin from Porphyromonas gingivalis, and attenuates a pro-inflammatory cytokine response. **2008**, 86, 643-9	60
2080	Tolerance to the antimicrobial peptide colistin in Pseudomonas aeruginosa biofilms is linked to metabolically active cells, and depends on the pmr and mexAB-oprM genes. **2008**, 68, 223-40	349
2079	Antimicrobial peptides effectively kill a broad spectrum of Listeria monocytogenes and Staphylococcus aureus strains independently of origin, sub-type, or virulence factor expression. **2008**, 8, 205	38
2078	Trypanocidal and leishmanicidal activities of different antimicrobial peptides (AMPs) isolated from aquatic animals. **2008**, 118, 197-202	84
2077	Antimicrobial effect and membrane-active mechanism of Urechistachykinins, neuropeptides derived from Urechis unicinctus. **2008**, 582, 2463-6	23
2076	Inhibition of the wine spoilage yeast Dekkera bruxellensis by bovine lactoferrin-derived peptides. **2008**, 127, 229-34	25
2075	Transgenic strawberry: state of the art for improved traits. **2008**, 26, 219-32	39
2074	The design, structures and therapeutic potential of protein epitope mimetics. **2008**, 13, 944-51	118
2073	New structures help the modeling of toxic amyloidbeta ion channels. **2008**, 33, 91-100	123
2072	Synthetic mimic of antimicrobial peptide with nonmembrane-disrupting antibacterial properties. **2008**, 9, 2980-3	171

2071	Energetics and partition of two cecropin-melittin hybrid peptides to model membranes of different composition. **2008**, 94, 2128-41	41
2070	Coarse-grained simulations of the membrane-active antimicrobial Peptide maculatin 1.1. **2008**, 95, 3802-15	61
2069	Melittin-lipid bilayer interactions and the role of cholesterol. **2008**, 95, 4324-36	63
2068	Models of toxic beta-sheet channels of protegrin-1 suggest a common subunit organization motif shared with toxic alzheimer beta-amyloid ion channels. **2008**, 95, 4631-42	84
2067	Conformation and membrane orientation of amphiphilic helical peptides by oriented circular dichroism. **2008**, 95, 3872-81	93
2066	Interaction of gramicidin S and its aromatic amino-acid analog with phospholipid membranes. **2008**, 95, 3306-21	39
2065	Innate immunity prevents tissue invasion by Entamoeba histolytica. **2008**, 54, 1032-42	4
2064	Sequence analysis of antimicrobial peptides by tandem mass spectrometry. **2008**, 494, 31-46	1
2063	Interactions between antimicrobial polynorbornenes and phospholipid vesicles monitored by light scattering and microcalorimetry. **2008**, 24, 12489-95	54
2062	Conformationally rigid proteomimetics: a case study in designing antimicrobial aryl oligomers. **2008**, 6, 417-23	31
2061	Identification and rational design of novel antimicrobial peptides for plant protection. **2008**, 46, 273-301	161
2060	Directed alteration of a novel bovine beta-defensin to improve antimicrobial efficacy against methicillin-resistant Staphylococcus aureus (MRSA). **2008**, 32, 392-7	10
2059	Are cationic antimicrobial peptides also 'double-edged swords'?. **2008**, 6, 453-62	28
2058	Peptide-Based Drug Design. **2008**,	17
2057	Peptide-based drug design: here and now. **2008**, 494, 1-8	77
2056	Investigating the mode of action of proline-rich antimicrobial peptides using a genetic approach: a tool to identify new bacterial targets amenable to the design of novel antibiotics. **2008**, 494, 161-76	14
2055	Stimuli-responsive polyguanidino-oxanorbornene membrane transporters as multicomponent sensors in complex matrices. **2008**, 130, 10338-44	106
2054	Acinetobacter baumannii: emergence of a successful pathogen. **2008**, 21, 538-82	2214

2053	Mode of action of human beta-defensin 3 against Staphylococcus aureus and transcriptional analysis of responses to defensin challenge. **2008**, 298, 619-33	56
2052	Bacterial production of latarcin 2a, a potent antimicrobial peptide from spider venom. **2008**, 60, 89-95	41
2051	Anti-microbial action of melanocortin peptides and identification of a novel X-Pro-D/L-Val sequence in Gram-positive and Gram-negative bacteria. **2008**, 29, 1004-9	19
2050	Structure-activity relations of parasin I, a histone H2A-derived antimicrobial peptide. **2008**, 29, 1102-8	62
2049	Solution NMR structures of the antimicrobial peptides phylloseptin-1, -2, and -3 and biological activity: the role of charges and hydrogen bonding interactions in stabilizing helix conformations. **2008**, 29, 1633-44	47
2048	Dual-color fluorescence-burst analysis to study pore formation and protein-protein interactions. **2008**, 46, 123-30	25
2047	Permeabilization of E. coli K12 inner and outer membranes by bothropstoxin-I, A LYS49 phospholipase A2 from Bothrops jararacussu. **2008**, 51, 538-46	21
2046	Effects of the cationic antimicrobial peptide eumenitin from the venom of solitary wasp Eumenes rubronotatus in planar lipid bilayers: surface charge and pore formation activity. **2008**, 51, 736-45	18
2045	Beta-hairpin peptidomimetics: design, structures and biological activities. **2008**, 41, 1278-88	266
2044	Short linear cationic antimicrobial peptides: screening, optimizing, and prediction. **2008**, 494, 127-59	25
2043	Antimicrobial peptides and bacteriocins: alternatives to traditional antibiotics. **2008**, 9, 227-35	170
2042	Seed defensins of barnyard grass Echinochloa crusgalli (L.) Beauv. **2008**, 90, 1667-73	36
2041	Antimicrobial action of histone H2B in Escherichia coli: evidence for membrane translocation and DNA-binding of a histone H2B fragment after proteolytic cleavage by outer membrane proteinase T. **2008**, 90, 1693-702	31
2040	Toroidal pores formed by antimicrobial peptides show significant disorder. **2008**, 1778, 2308-17	364
2039	Characterization of antimicrobial peptide activity by electrochemical impedance spectroscopy. **2008**, 1778, 2430-6	38
2038	Monitoring the positioning of short polycationic peptides in model lipid bilayers by combining hydrogen/deuterium exchange and electrospray ionization mass spectrometry. **2008**, 1778, 2797-805	14
2037	Single-molecule investigation of the interactions between reconstituted planar lipid membranes and an analogue of the HP(2-20) antimicrobial peptide. **2008**, 373, 467-72	26
2036	Mechanism of adenovirus neutralization by Human alpha-defensins. **2008**, 3, 11-9	144

2035	Arasin 1, a proline-arginine-rich antimicrobial peptide isolated from the spider crab, Hyas araneus. **2008**, 32, 275-85	98
2034	Antimicrobial lipopolypeptides composed of palmitoyl Di- and tricationic peptides: in vitro and in vivo activities, self-assembly to nanostructures, and a plausible mode of action. **2008**, 47, 10630-6	140
2033	Synthesis of bioinorganic antimicrobial peptide nanoparticles with potential therapeutic properties. **2008**, 9, 2487-94	45
2032	The plant defensin, NaD1, enters the cytoplasm of Fusarium oxysporum hyphae. **2008**, 283, 14445-52	149
2031	Anionic C-terminal proregion of nematode antimicrobial peptide cecropin P4 precursor inhibits antimicrobial activity of the mature peptide. **2008**, 72, 3281-4	4
2030	Using fluorous amino acids to probe the effects of changing hydrophobicity on the physical and biological properties of the beta-hairpin antimicrobial peptide protegrin-1. **2008**, 47, 9243-50	72
2029	Bioactive Natural Peptides. **2008**, 35, 597-691	14
2028	Probing melittin helix-coil equilibria in solutions and vesicles. **2008**, 112, 3202-7	8
2027	Effect of antimicrobial peptides from Australian tree frogs on anionic phospholipid membranes. **2008**, 47, 8557-65	78
2026	Investigating the effect of increasing charge density on the hemolytic activity of synthetic antimicrobial polymers. **2008**, 9, 2805-10	108
2025	Synthesis, conformational analysis and biological studies of cyclic cationic antimicrobial peptides containing sugar amino acids. **2008**, 73, 8731-44	31
2024	Influence of lipid composition on membrane activity of antimicrobial phenylene ethynylene oligomers. **2008**, 112, 3495-502	92
2023	Peptoids that mimic the structure, function, and mechanism of helical antimicrobial peptides. **2008**, 105, 2794-9	481
2022	Kinetic control of histidine-tagged protein surface density on supported lipid bilayers. **2008**, 24, 4145-9	110
2021	On the nature of antimicrobial activity: a model for protegrin-1 pores. **2008**, 130, 4338-46	48
2020	Baker's yeast as a tool for the development of antifungal drugs which target cell integrity - an update. **2008**, 3, 931-43	12
2019	Solid-state NMR analysis comparing the designer-made antibiotic MSI-103 with its parent peptide PGLa in lipid bilayers. **2008**, 47, 2601-16	69
2018	Three-dimensional structure/hydrophobicity of latarcins specifies their mode of membrane activity. **2008**, 47, 3525-33	30

2017	Virulent Shigella flexneri subverts the host innate immune response through manipulation of antimicrobial peptide gene expression. **2008**, 205, 1121-32	118
2016	One-dimensional families of projections. **2008**, 21, 453-463	9
2015	Staphylococcus aureus evasion of innate antimicrobial defense. **2008**, 3, 437-51	63
2014	Mechanism of a prototypical synthetic membrane-active antimicrobial: Efficient hole-punching via interaction with negative intrinsic curvature lipids. **2008**, 105, 20595-600	98
2013	Mucroporin, the first cationic host defense peptide from the venom of Lychas mucronatus. **2008**, 52, 3967-72	60
2012	Cell-penetrating peptide TP10 shows broad-spectrum activity against both Plasmodium falciparum and Trypanosoma brucei brucei. **2008**, 52, 3414-7	39
2011	Neutrophil secondary necrosis is induced by LL-37 derived from cathelicidin. **2008**, 84, 780-8	49
2010	Histidine-rich glycoprotein protects from systemic Candida infection. **2008**, 4, e1000116	51
2009	Do birds differentially distribute antimicrobial proteins within clutches of eggs?. **2008**, 19, 920-927	46
2008	Antimicrobial peptides in innate immune responses. **2008**, 15, 61-77	56
2007	Host defense peptides in the oral cavity and the lung: similarities and differences. **2008**, 87, 915-27	132
2006	Antimicrobial peptide preferential binding of E. coli O157:H7. **2008**, 15, 1086-93	16
2005	On the mechanism of pore formation by melittin. **2008**, 283, 33854-7	134
2004	Serial daptomycin selection generates daptomycin-nonsusceptible Staphylococcus aureus strains with a heterogeneous vancomycin-intermediate phenotype. **2008**, 52, 4289-99	93
2003	Host defense peptides in the oral cavity. **2008**, 63, 281-322	14
2002	Capsule polysaccharide is a bacterial decoy for antimicrobial peptides. **2008**, 154, 3877-3886	202
2001	Human alpha- and beta-defensins bind to immobilized adhesins from Porphyromonas gingivalis. **2008**, 76, 5714-20	21
2000	An exceptional salt-tolerant antimicrobial peptide derived from a novel gene family of haemocytes of the marine invertebrate Ciona intestinalis. **2008**, 416, 65-75	57

1999	Host defense peptides in wound healing. **2008**, 14, 528-37	119
1998	The proteins of plant defensin family and their application beyond plant disease control. **2008**, 2, 214-8	4
1997	Antimicrobial peptide precursor structures suggest effective production strategies. **2008**, 2, 58-63	23
1996	Toxic Properties of Urease. **2008**, 48, 1665-1672	43
1995	Immune response to extracellular bacteria. **2008**, 377-388	1
1994	American Elm. **2008**, 241-262	2
1993	Snake cathelicidin from Bungarus fasciatus is a potent peptide antibiotics. **2008**, 3, e3217	164
1992	Biochemical and pharmacological study of venom of the wolf spider Lycosa singoriensis. **2009**, 15, 79-92	11
1991	On the physiology and pathophysiology of antimicrobial peptides. **2009**, 15, 51-9	84
1990	Pore forming properties of cecropin-melittin hybrid peptide in a natural membrane. **2009**, 14, 5179-88	21
1989	Systematic identification of genetic loci required for polymyxin resistance in Campylobacter jejuni using an efficient in vivo transposon mutagenesis system. **2009**, 6, 173-185	18
1988	Lacticin Q, a lactococcal bacteriocin, causes high-level membrane permeability in the absence of specific receptors. **2009**, 75, 538-41	43
1987	Binding free energy and counterion release for adsorption of the antimicrobial peptide lactoferricin B on a POPG membrane. **2009**, 80, 031911	28
1986	Membranes and Drug Action. **2009**, 31-61	
1985	Rapid and reliable detection of antimicrobial peptide penetration into gram-negative bacteria based on fluorescence quenching. **2009**, 53, 3501-4	54
1984	Through the looking glass, mechanistic insights from enantiomeric human defensins. **2009**, 284, 29180-92	84
1983	Sporicidal activity of synthetic antifungal undecapeptides and control of Penicillium rot of apples. **2009**, 75, 5563-9	41
1982	Degradation of human alpha- and beta-defensins by culture supernatants of Porphyromonas gingivalis strain 381. **2009**, 1, 118-22	51

1981	Structural determinants of antimicrobial and antiplasmodial activity and selectivity in histidine-rich amphipathic cationic peptides. **2009**, 284, 119-133	70
1980	A fossil antibacterial peptide gives clues to structural diversity of cathelicidin-derived host defense peptides. **2009**, 23, 13-20	23
1979	SufA of the opportunistic pathogen finegoldia magna modulates actions of the antibacterial chemokine MIG/CXCL9, promoting bacterial survival during epithelial inflammation. **2009**, 284, 29499-508	23
1978	De novo design and in vivo activity of conformationally restrained antimicrobial arylamide foldamers. **2009**, 106, 6968-73	253
1977	Selectivity of cateslytin for fungi: the role of acidic lipid-ergosterol membrane fluidity in antimicrobial action. **2009**, 23, 3692-701	17
1976	Pneumococcal interaction with human dendritic cells: phagocytosis, survival, and induced adaptive immune response are manipulated by PavA. **2009**, 183, 1952-63	40
1975	Antibacterial properties and mode of action of a short acyl-lysyl oligomer. **2009**, 53, 3422-9	18
1974	The bactericidal effect of a complement-independent antibody is osmolytic and specific to Borrelia. **2009**, 106, 10752-7	45
1973	Structure and mode of action of microplusin, a copper II-chelating antimicrobial peptide from the cattle tick Rhipicephalus (Boophilus) microplus. **2009**, 284, 34735-46	63
1972	Direct screening identifies mature beta-defensin 2 in avian heterophils. **2009**, 88, 372-9	14
1971	Ionization dynamics of high-intensity laser target interactions. **2009**, 51, 095005	22
1970	The first gene-encoded amphibian neurotoxin. **2009**, 284, 22079-22086	42
1969	Blufensin1 negatively impacts basal defense in response to barley powdery mildew. **2009**, 149, 271-85	53
1968	Burkholderia cenocepacia zinc metalloproteases influence resistance to antimicrobial peptides. **2009**, 155, 2818-2825	44
1967	Inflammatory bowel disease and celiac disease: overlaps in the pathology and genetics, and their potential drug targets. **2009**, 9, 199-218	16
1966	De Gruyter. **2009**, -1, 1-15	2
1965	Anionic antimicrobial peptides from eukaryotic organisms. **2009**, 10, 585-606	188
1964	Klebsiella pneumoniae OmpA confers resistance to antimicrobial peptides. **2009**, 53, 298-302	56

1963	Recent progress in the discovery of macrocyclic compounds as potential anti-infective therapeutics. **2009**, 16, 42-65	36
1962	Cellular expression and antimicrobial function of a phylogenetically conserved novel histone 1x-like protein on mouse cells: a potential new class of pattern recognition receptor. **2009**, 86, 133-41	6
1961	Poisson-Nernst-Planck models of nonequilibrium ion electrodiffusion through a protegrin transmembrane pore. **2009**, 5, e1000277	43
1960	Genetic dissection of an exogenously induced biofilm in laboratory and clinical isolates of E. coli. **2009**, 5, e1000432	32
1959	Therapeutic approaches using host defence peptides to tackle herpes virus infections. **2009**, 1, 939-64	19
1958	Insect peptide metchnikowin confers on barley a selective capacity for resistance to fungal ascomycetes pathogens. **2009**, 60, 4105-14	57
1957	In vitro antibacterial activity of acyl-lysyl oligomers against Helicobacter pylori. **2009**, 53, 4231-9	17
1956	Contributions of two UDP-glucose dehydrogenases to viability and polymyxin B resistance of Burkholderia cenocepacia. **2009**, 155, 2029-2039	28
1955	Novel expression vector for secretion of cecropin AD in Bacillus subtilis with enhanced antimicrobial activity. **2009**, 53, 3683-9	38
1954	Peptide-lipid huge toroidal pore, a new antimicrobial mechanism mediated by a lactococcal bacteriocin, lacticin Q. **2009**, 53, 3211-7	97
1953	Dermcidin-derived peptides show a different mode of action than the cathelicidin LL-37 against Staphylococcus aureus. **2009**, 53, 2499-509	52
1952	The antibacterial effect of a proline-rich antibacterial peptide A3-APO. **2009**, 16, 3996-4002	36
1951	Exploring the mode of action of antimicrobial peptide MUC7 12-mer by fitness profiling of Saccharomyces cerevisiae genomewide mutant collection. **2009**, 53, 3762-9	8
1950	Boosting antimicrobial peptides by hydrophobic oligopeptide end tags. **2009**, 284, 17584-94	102
1949	Antioxidant peptidomics reveals novel skin antioxidant system. **2009**, 8, 571-83	93
1948	Transcriptome analysis of the responses of Staphylococcus aureus to antimicrobial peptides and characterization of the roles of vraDE and vraSR in antimicrobial resistance. **2009**, 10, 429	88
1947	Antimicrobial activity of a C-terminal peptide from human extracellular superoxide dismutase. **2009**, 2, 136	17
1946	Selective arginines are important for the antibacterial activity and host cell interaction of human alpha-defensin 5. **2009**, 583, 2507-12	53

1945	Selectivity and antimicrobial action of bovine lactoferrin derived peptides against wine lactic acid bacteria. **2009**, 26, 340-6	27
1944	Comparison of facially amphiphilic versus segregated monomers in the design of antibacterial copolymers. **2009**, 15, 433-9	99
1943	The role of hydrophobicity in the antimicrobial and hemolytic activities of polymethacrylate derivatives. **2009**, 15, 1123-33	236
1942	"Doubly selective" antimicrobial polymers: how do they differentiate between bacteria?. **2009**, 15, 11710-4	114
1941	Helical hairpin structure of a potent antimicrobial peptide MSI-594 in lipopolysaccharide micelles by NMR spectroscopy. **2009**, 15, 2036-40	81
1940	Synthetic mimics of antimicrobial peptides--a versatile ring-opening metathesis polymerization based platform for the synthesis of selective antibacterial and cell-penetrating polymers. **2009**, 15, 11784-800	129
1939	Antimicrobial polymers prepared by ring-opening metathesis polymerization: manipulating antimicrobial properties by organic counterion and charge density variation. **2009**, 15, 11715-22	100
1938	Quantitative use of paramagnetic relaxation enhancements for determining orientations and insertion depths of peptides in micelles. **2009**, 10, 2339-47	27
1937	Interactions of KLA amphipathic model peptides with lipid monolayers. **2009**, 10, 2884-92	21
1936	Cathelicidin peptide SMAP-29: comprehensive review of its properties and potential as a novel class of antibiotics. **2009**, 70, 481-498	30
1935	Evidence that cathelicidin peptide LL-37 may act as a functional ligand for CXCR2 on human neutrophils. **2009**, 39, 3181-94	73
1934	Beta-hairpin restraint potentials for calculations of potentials of mean force as a function of beta-hairpin tilt, rotation, and distance. **2009**, 30, 1334-43	8
1933	Novel free energy calculations to explore mechanisms and energetics of membrane protein structure and function. **2009**, 30, 1622-33	19
1932	Mesoscopic membrane physics: concepts, simulations, and selected applications. **2009**, 30, 752-71	88
1931	UV resonance Raman spectroscopy probes the localization of tryptophan-containing antimicrobial peptides in lipid vesicles. **2009**, 40, 260-263	8
1930	RE Coil: An Antimicrobial Peptide Regulator. **2009**, 121, 9856-9859	
1929	RE coil: an antimicrobial peptide regulator. **2009**, 48, 9676-9	13
1928	Myxinidin, a novel antimicrobial peptide from the epidermal mucus of hagfish, Myxine glutinosa L. **2009**, 11, 748-57	70

1927	In-silico homology modeling of three isoforms of insect defensins from the dengue vector mosquito, Aedes aegypti (Linn., 1762). **2009**, 15, 507-14	5
1926	Membranes of five-fold alamethicin-resistantStaphylococcus aureus, Enterococcus faecalis andBacillus cereus show decreased interactions with alamethicin due to changes in membrane fluidity and surface charge. **2009**, 59, 593-601	11
1925	Rationalizing the membrane interactions of cationic amphipathic antimicrobial peptides by their molecular shape. **2009**, 14, 349-355	77
1924	Antimicrobial activity of novel biocompatible wound dressings based on triblock copolymer hydrogels. **2009**, 44, 6233-6246	23
1923	Transcriptional Profile of Escherichia coli in Response to Novispirin G10. **2009**, 15, 17-24	3
1922	ChBac3.4: A Novel Proline-Rich Antimicrobial Peptide from Goat Leukocytes. **2009**, 15, 31-42	17
1921	Transcriptional Profile of Escherichia coli in Response to Novispirin G10. **2009**, 15, 97-105	
1920	ChBac3.4: A Novel Proline-Rich Antimicrobial Peptide from Goat Leukocytes. **2009**, 15, 107-119	11
1919	Interpretable Features for the Activity Prediction of Short Antimicrobial Peptides Using Fuzzy Logic. **2009**, 15, 129-137	13
1918	Complement Activation Products C3a and C4a as Endogenous Antimicrobial Peptides. **2009**, 15, 87-95	12
1917	The Proline-rich Antibacterial Peptide Bac7 Binds to and Inhibits in vitro the Molecular Chaperone DnaK. **2009**, 15, 147-155	42
1916	Assessment of antifungal effects of a novel compound from Burkholderia cepacia against Fusarium solani by fluorescent staining. **2009**, 25, 151-154	12
1915	The role played by lipids unsaturation upon the membrane interaction of the Helicobacter pylori HP(2-20) antimicrobial peptide analogue HPA3. **2009**, 41, 79-84	11
1914	Vitamin D(3) induces expression of human cathelicidin antimicrobial peptide 18 in newborns. **2009**, 90, 561-570	24
1913	Identification and characterization of a novel antibacterial peptide, avian beta-defensin 2 from ducks. **2009**, 47, 610-8	25
1912	Otitis Media: A Review, with a Focus on Alternative Treatments. **2009**, 1, 45-59	5
1911	Direct and alternative antimicrobial mechanisms of neutrophil-derived granule proteins. **2009**, 87, 1157-64	49
1910	Activity of the antimicrobial peptide and thanatin analog S-thanatin on clinical isolates of Klebsiella pneumoniae resistant to conventional antibiotics with different structures. **2009**, 59, 147-53	13

1909	Membrane permeability and antimicrobial kinetics of cecropin P1 against Escherichia coli. **2009**, 15, 398-403		33
1908	The chitin-binding capability of Cy-AMP1 from cycad is essential to antifungal activity. **2009**, 15, 492-7		25
1907	Antimicrobial peptide interactions with silica bead supported bilayers and E. coli: buforin II, magainin II, and arenicin. **2009**, 15, 511-22		5
1906	Membrane association and selectivity of the antimicrobial peptide NK-2: a molecular dynamics simulation study. **2009**, 15, 654-67		15
1905	Functional water-soluble polymers: polymer□metal ion removal and biocide properties. **2009**, 58, 1093-1114		32
1904	Single molecule resolution of the antimicrobial action of quantum dot-labeled sushi peptide on live bacteria. **2009**, 7, 22		30
1903	Drosomycin, an essential component of antifungal defence in Drosophila. **2009**, 18, 549-56		45
1902	Decreased outer membrane permeability protects mycobacteria from killing by ubiquitin-derived peptides. **2009**, 73, 844-57		55
1901	An outer membrane protease of the omptin family prevents activation of the Citrobacter rodentium PhoPQ two-component system by antimicrobial peptides. **2009**, 74, 98-111		24
1900	Antimicrobial peptides: linking partition, activity and high membrane-bound concentrations. *Nature Reviews Microbiology*, **2009**, 7, 245-50	22.2	469
1899	Molecular diversity of spider venom. **2009**, 74, 1505-34		122
1898	Peptide autoinducers in bacteria. **2009**, 78, 255-266		8
1897	Antimicrobial peptides of the oral cavity. **2009**, 51, 152-80		116
1896	Role of acetylation and charge in antimicrobial peptides based on human beta-defensin-3. **2009**, 117, 492-9		29
1895	Functional aspects of the solution structure and dynamics of PAF--a highly-stable antifungal protein from Penicillium chrysogenum. **2009**, 276, 2875-90		72
1894	Multifunctional host defense peptides: intracellular-targeting antimicrobial peptides. **2009**, 276, 6483-96		238
1893	Resistance of Neisseria gonorrhoeae to non-oxidative killing by adherent human polymorphonuclear leucocytes. **2009**, 11, 1074-87		60
1892	Incorporation of antimicrobial compounds in mesoporous silica film monolith. **2009**, 30, 5729-36		101

1891	Design and characterization of a broad -spectrum bactericidal acyl-lysyl oligomer. **2009**, 16, 1250-8	24
1890	Membrane-disruptive properties of the bioinsecticide Jaburetox-2Ec: implications to the mechanism of the action of insecticidal peptides derived from ureases. **2009**, 1794, 1848-54	33
1889	Interaction of MDpep9, a novel antimicrobial peptide from Chinese traditional edible larvae of housefly, with Escherichia coli genomic DNA. **2009**, 115, 867-872	44
1888	Synergistic transmembrane insertion of the heterodimeric PGLa/magainin 2 complex studied by solid-state NMR. **2009**, 1788, 1667-79	65
1887	Differential effects of alpha-helical and beta-hairpin antimicrobial peptides against Acanthamoeba castellanii. **2009**, 136, 813-21	12
1886	Design, synthesis, and structure-activity relationships of benzophenone-based tetraamides as novel antibacterial agents. **2009**, 52, 5020-31	77
1885	A Review: Biological and Technological Functions of Barley Seed Pathogenesis-Related Proteins (PRs). **2009**, 115, 334-360	33
1884	Binding and release of consensus peptides by poly(acrylic acid) microgels. **2009**, 10, 2162-8	47
1883	Microplate-based analysis of protein-membrane binding interactions via immobilization of whole liposomes containing a biotinylated anchor. **2009**, 20, 376-83	24
1882	Dependence of antimicrobial selectivity and potency on oligomer structure investigated using substrate supported lipid bilayers and sum frequency generation vibrational spectroscopy. **2009**, 81, 8365-72	22
1881	Synthetic ultrashort cationic lipopeptides induce systemic plant defense responses against bacterial and fungal pathogens. **2009**, 75, 5373-9	29
1880	Orientation determination of protein helical secondary structures using linear and nonlinear vibrational spectroscopy. **2009**, 113, 12169-80	136
1879	Hydrophilic modifications of an amphiphilic polynorbornene and the effects on its hemolytic and antibacterial activity. **2009**, 10, 353-9	94
1878	Novel peptide therapeutics for treatment of infections. **2009**, 58, 977-987	102
1877	Fluorescence and UV resonance Raman study of peptide-vesicle interactions of human cathelicidin LL-37 and its F6W and F17W mutants. **2009**, 48, 11264-72	21
1876	Susceptibility to infectious diseases based on antimicrobial peptide production. **2009**, 77, 4690-5	66
1875	Early stages of oxidative stress-induced membrane permeabilization: a neutron reflectometry study. **2009**, 131, 3631-8	54
1874	Assessment of the multiphase interaction between a membrane disrupting peptide and a lipid membrane. **2009**, 113, 14369-80	15

1873	High resolution heteronuclear correlation NMR spectroscopy of an antimicrobial peptide in aligned lipid bilayers: peptide-water interactions at the water-bilayer interface. **2009**, 131, 10830-1	38
1872	Positioning of micelle-bound peptides by paramagnetic relaxation enhancements. **2009**, 113, 4400-6	45
1871	Antimicrobial action of prototypic amphipathic cationic decapeptides and their branched dimers. **2009**, 48, 5642-57	42
1870	Interaction of contraceptive antimicrobial peptide nisin with target cell membranes: implications for use as vaginal microbicide. **2009**, 80, 299-307	13
1869	Novel lactoferrampin antimicrobial peptides derived from human lactoferrin. **2009**, 91, 141-54	59
1868	Bactericidal activity of LFchimera is stronger and less sensitive to ionic strength than its constituent lactoferricin and lactoferrampin peptides. **2009**, 91, 123-32	75
1867	Membrane order perturbation in the presence of antimicrobial peptides by (2)H solid-state NMR spectroscopy. **2009**, 91, 734-43	86
1866	Peptide derived from the lipid binding domain of Group IB human pancreatic phospholipase A(2) possesses antibacterial activity. **2009**, 91, 1387-93	1
1865	Structure, membrane orientation, mechanism, and function of pexiganan--a highly potent antimicrobial peptide designed from magainin. **2009**, 1788, 1680-6	220
1864	Expression, purification and structural studies of a short antimicrobial peptide. **2009**, 1788, 314-23	43
1863	Antimicrobial peptide mimics for improved therapeutic properties. **2009**, 1788, 1582-92	208
1862	Action mechanism and structural requirements of the antimicrobial peptides, gaegurins. **2009**, 1788, 1620-9	36
1861	Buforins: histone H2A-derived antimicrobial peptides from toad stomach. **2009**, 1788, 1564-9	136
1860	Peptide induced demixing in PG/PE lipid mixtures: a mechanism for the specificity of antimicrobial peptides towards bacterial membranes?. **2009**, 1788, 650-9	118
1859	Solution NMR studies of amphibian antimicrobial peptides: linking structure to function?. **2009**, 1788, 1639-55	126
1858	Oligotryptophan-tagged antimicrobial peptides and the role of the cationic sequence. **2009**, 1788, 1916-23	35
1857	Interactions of antimicrobial peptide from C-terminus of myotoxin II with phospholipid mono- and bilayers. **2009**, 1788, 2277-83	22
1856	The role of antimicrobial peptides in cardiovascular physiology and disease. **2009**, 390, 363-7	8

1855	Leptoglycin: a new Glycine/Leucine-rich antimicrobial peptide isolated from the skin secretion of the South American frog Leptodactylus pentadactylus (Leptodactylidae). **2009**, 54, 23-32	44
1854	Identification and expression of a novel marsupial cathelicidin from the tammar wallaby (Macropus eugenii). **2009**, 127, 269-76	10
1853	Preparation of isotopically labelled recombinant beta-defensin for NMR studies. **2009**, 65, 179-84	6
1852	Cloning, expression, isotope labeling, purification, and characterization of bovine antimicrobial peptide, lactophoricin in Escherichia coli. **2009**, 65, 23-9	32
1851	A peptide fragment derived from the T-cell antigen receptor protein alpha-chain adopts beta-sheet structure and shows potent antimicrobial activity. **2009**, 30, 647-53	12
1850	Plant defensins--prospects for the biological functions and biotechnological properties. **2009**, 30, 1007-20	195
1849	In vitro antimicrobial activity of alpha-melanocyte stimulating hormone against major human pathogen Staphylococcus aureus. **2009**, 30, 1627-35	39
1848	A C-terminal cationic fragment derived from an arginine-rich peptide exhibits in vitro antibacterial and anti-plasmodial activities governed by its secondary structure properties. **2009**, 30, 2150-60	7
1847	AMPed up immunity: how antimicrobial peptides have multiple roles in immune defense. **2009**, 30, 131-41	849
1846	Oyster hemocytes express a proline-rich peptide displaying synergistic antimicrobial activity with a defensin. **2009**, 46, 516-22	64
1845	Hyastatin, a glycine-rich multi-domain antimicrobial peptide isolated from the spider crab (Hyas araneus) hemocytes. **2009**, 46, 2604-12	67
1844	Targeted antimicrobial activity of a specific IgG-SMAP28 conjugate against Porphyromonas gingivalis in a mixed culture. **2009**, 33, 14-20	34
1843	Design and activity of a 'dual-targeted' antimicrobial peptide. **2009**, 33, 532-7	49
1842	Synergistic effects of the membrane actions of cecropin-melittin antimicrobial hybrid peptide BP100. **2009**, 96, 1815-27	72
1841	Structure and membrane interactions of the antibiotic peptide dermadistinctin K by multidimensional solution and oriented 15N and 31P solid-state NMR spectroscopy. **2009**, 96, 2194-203	40
1840	Effects of lipid composition and phase on the membrane interaction of the prion peptide 106-126 amide. **2009**, 96, 4610-21	26
1839	Detergent-like activity and alpha-helical structure of warnericin RK, an anti-Legionella peptide. **2009**, 97, 1933-40	19
1838	Misfolded amyloid ion channels present mobile beta-sheet subunits in contrast to conventional ion channels. **2009**, 97, 3029-37	84

1837	Effect of ring size on conformation and biological activity of cyclic cationic antimicrobial peptides. **2009**, 52, 2090-7	37
1836	The role of antimicrobial peptides at the ocular surface. **2009**, 41, 60-75	100
1835	Antifungal mechanism of a novel antifungal protein from pumpkin rinds against various fungal pathogens. **2009**, 57, 9299-304	34
1834	Structure of chemokine-derived antimicrobial Peptide interleukin-8alpha and interaction with detergent micelles and oriented lipid bilayers. **2009**, 48, 10509-21	17
1833	Adaptation of a membrane-active peptide to heterogeneous environment. I. Structural plasticity of the peptide. **2009**, 113, 1107-19	30
1832	The interplay of catalysis and toxicity by amyloid intermediates on lipid bilayers: insights from type II diabetes. **2009**, 38, 125-52	187
1831	Chapter 1 NMR of Antimicrobial Peptides. **2009**, 65, 1-51	19
1830	Molecular Theory Applied to Lipid Bilayers and Lipid□Protein Interactions. **2009**, 1-39	
1829	Incorporation of antimicrobial peptides into membranes: a combined liquid-state NMR and molecular dynamics study of alamethicin in DMPC/DHPC bicelles. **2009**, 113, 6928-37	60
1828	Cause and effect of melittin-induced pore formation: a computational approach. **2009**, 25, 12235-42	34
1827	Generation and characterization of the antibacterial activity of a novel hybrid antimicrobial peptide comprising functional domains from different insect cecropins. **2009**, 55, 520-8	5
1826	Structural and functional characterization of two genetically related meucin peptides highlights evolutionary divergence and convergence in antimicrobial peptides. **2009**, 23, 1230-45	59
1825	Update on Campylobacter jejuni vaccine development for preventing human campylobacteriosis. **2009**, 8, 625-45	29
1824	Application of natural antimicrobials for food preservation. **2009**, 57, 5987-6000	482
1823	Computational design of highly selective antimicrobial peptides. **2009**, 49, 2873-82	59
1822	Antimicrobial peptides: to membranes and beyond. **2009**, 4, 659-71	71
1821	Design of Antibacterial Surfaces and Interfaces: Polyelectrolyte Multilayers as a Multifunctional Platform. **2009**, 42, 8573-8586	384
1820	A role for antimicrobial peptides in intestinal microsporidiosis. **2009**, 136, 175-81	24

1819	Monovalent Salt Effects on the Membrane Activity of Antimicrobial Polymers. **2009**, 283-284, 319-325	4
1818	Host Defense against Staphylococcal Infection. 147-169	
1817	Peptoid analogues of anoplin show antibacterial activity. **2009**, 16, 1006-11	11
1816	The roles of antimicrobial peptides in innate host defense. **2009**, 15, 2377-92	382
1815	Membrane structure and conformational changes of the antibiotic heterodimeric peptide distinctin by solid-state NMR spectroscopy. **2009**, 106, 16639-44	62
1814	Antimicrobial peptides present in mammalian skin and gut are multifunctional defence molecules. **2010**, 16, 1024-39	32
1813	Host Defense Peptides: Bridging Antimicrobial and Immunomodulatory Activities*. **2010**, 175-216	1
1812	Lipopolysaccharide interaction is decisive for the activity of the antimicrobial peptide NK-2 against Escherichia coli and Proteus mirabilis. **2010**, 427, 477-88	44
1811	Defect-mediated trafficking across cell membranes: insights from in silico modeling. **2010**, 110, 6077-103	153
1810	The potential of nanofibers and nanobiocides in water purification. **2010**, 36, 68-81	130
1809	Correlation of charge, hydrophobicity, and structure with antimicrobial activity of S1 and MIRIAM peptides. **2010**, 49, 9161-70	23
1808	Comparing bacterial membrane interactions of antimicrobial peptides and their mimics. **2010**, 618, 171-82	32
1807	Cathelicidin LL-37: a multitask antimicrobial peptide. **2010**, 58, 15-25	140
1806	Antimicrobial peptides in the brain. **2010**, 58, 365-77	17
1805	Isolation and sequence analysis of peptides from the skin secretion of the Middle East tree frog Hyla savignyi. **2010**, 398, 2853-65	4
1804	Structural determinants of antimicrobial activity in polymers which mimic host defense peptides. **2010**, 87, 1605-15	199
1803	Lactococcal membrane-permeabilizing antimicrobial peptides. **2010**, 88, 1-9	38
1802	Controlling the release of peptide antimicrobial agents from surfaces. **2010**, 31, 2348-57	227

1801	Novel antimicrobial peptides that exhibit activity against select agents and other drug resistant bacteria. **2010**, 18, 5137-47	25
1800	The role of calcium ions in the interactions of PrP106-126 amide with model membranes. **2010**, 77, 40-6	8
1799	Innate immune responses of the airway epithelium. **2010**, 30, 173-83	42
1798	Antimicrobial compounds produced by Lactobacillus sakei subsp. sakei 2a, a bacteriocinogenic strain isolated from a Brazilian meat product. **2010**, 37, 381-90	28
1797	Alpha-helical cationic antimicrobial peptides: relationships of structure and function. **2010**, 1, 143-52	297
1796	Parasiticidal activity of human alpha-defensin-5 against Toxoplasma gondii. **2010**, 46, 560-5	25
1795	Fusion expression of cecropin B-like antibacterial peptide in Escherichia coli and preparation of its antiserum. **2010**, 32, 669-73	6
1794	Morphological changes of Fusarium oxysporum induced by CF66I, an antifungal compound from Burkholderia cepacia. **2010**, 32, 1487-95	6
1793	Conformational Analysis of a Synthetic Antimicrobial Peptide in Water and Membrane-Mimicking Solvents: A Molecular Dynamics Simulation Study. **2010**, 16, 223-231	7
1792	Molecular cloning, expression in Escherichia coli of Attacin A gene from Drosophila and detection of biological activity. **2010**, 37, 2463-9	13
1791	Design, expression and characterization of recombinant hybrid peptide Attacin-Thanatin in Escherichia coli. **2010**, 37, 3495-501	12
1790	Acquired resistance to the rice blast in transgenic rice accumulating the antimicrobial peptide thanatin. **2010**, 19, 415-24	31
1789	Intracellular plant microbe associations: secretory pathways and the formation of perimicrobial compartments. **2010**, 13, 372-7	40
1788	Choosing anti-Plasmodium molecules for genetically modifying mosquitoes: focus on peptides. **2010**, 26, 582-90	18
1787	The antimicrobial peptides derived from chromogranin/secretogranin family, new actors of innate immunity. **2010**, 165, 102-10	56
1786	Antimicrobial peptide-like genes in Nasonia vitripennis: a genomic perspective. **2010**, 11, 187	53
1785	Structural and antimicrobial properties of human pre-elafin/trappin-2 and derived peptides against Pseudomonas aeruginosa. **2010**, 10, 253	13
1784	A genomic approach highlights common and diverse effects and determinants of susceptibility on the yeast Saccharomyces cerevisiae exposed to distinct antimicrobial peptides. **2010**, 10, 289	29

1783	The heme sensing response regulator HssR in Staphylococcus aureus but not the homologous RR23 in Listeria monocytogenes modulates susceptibility to the antimicrobial peptide plectasin. **2010**, 10, 307	16
1782	An enhancer peptide for membrane-disrupting antimicrobial peptides. **2010**, 10, 46	5
1781	Antiviral activity of selected antimicrobial peptides against vaccinia virus. **2010**, 86, 306-11	31
1780	Current trends in antimicrobial agent research: chemo- and bioinformatics approaches. **2010**, 15, 540-6	58
1779	Antimicrobial peptides: general overview and clinical implications in human health and disease. **2010**, 135, 1-11	392
1778	Interactions of antimicrobial peptides with Leishmania and trypanosomes and their functional role in host parasitism. **2010**, 126, 397-405	59
1777	Functional interaction of human neutrophil peptide-1 with the cell wall precursor lipid II. **2010**, 584, 1543-8	156
1776	The impact of pea protein hydrolysates on bacterial physiological activity--an in vitro study. **2010**, 140, 263-70	16
1775	Control of foodborne pathogens on ready-to-eat roast beef slurry by epsilon-polylysine. **2010**, 141, 236-41	73
1774	An N-terminal domain of adenovirus protein VI fragments membranes by inducing positive membrane curvature. **2010**, 402, 11-9	64
1773	Temperature-responsive polymer brushes switching from bactericidal to cell-repellent. **2010**, 22, 5024-8	130
1772	Role of the Conformational Rigidity in the Design of Biomimetic Antimicrobial Compounds. **2010**, 122, 8640-8643	3
1771	Role of the conformational rigidity in the design of biomimetic antimicrobial compounds. **2010**, 49, 8462-5	47
1770	The effects of L- to D-isomerization and C-terminus deamidation on the secondary structure of antimicrobial peptide Anoplin in aqueous and membrane mimicking environment. **2010**, 41, 1645-1649	10
1769	Divorcing folding from function: how acylation affects the membrane-perturbing properties of an antimicrobial peptide. **2010**, 1804, 806-20	21
1768	Chain length dependence of antimicrobial peptide-fatty acid conjugate activity. **2010**, 345, 160-7	83
1767	Design, syntheses and evaluation of hemocompatible pegylated-antimicrobial polymers with well-controlled molecular structures. **2010**, 31, 1751-6	93
1766	Induction of non-lamellar lipid phases by antimicrobial peptides: a potential link to mode of action. **2010**, 163, 82-93	90

1765	Spectroscopic and thermodynamic evidence for antimicrobial peptide membrane selectivity. **2010**, 163, 488-97	49
1764	Interaction between amphiphilic peptides and phospholipid membranes. **2010**, 15, 467-478	123
1763	Biomacromolecules in microgels □Opportunities and challenges for drug delivery. **2010**, 15, 435-444	111
1762	Effects of single amino acid substitutions on peptide interaction with lipid membranes and bacterial□ariants of GKE21, an internal sequence from human LL-37. **2010**, 354, 65-71	7
1761	Second Harmonic Generation, a new approach for analyzing the interfacial properties of a short tryptophan-rich peptide. **2010**, 500, 161-166	14
1760	Modifications on amphiphilicity and cationicity of unnatural amino acid containing peptides for the improvement of antimicrobial activity against pathogenic bacteria. **2010**, 16, 607-12	13
1759	Characterization of a peptide family from the skin secretion of the Middle East tree frog Hyla savignyi by composition-based de novo sequencing. **2010**, 24, 2885-99	13
1758	Antimicrobial peptides generated from milk proteins: a survey and prospects for application in the food industry. A review. **2010**, 63, 320-338	89
1757	Lactobacillus delbrueckii subsp lactis (strain CIDCA 133) resists the antimicrobial activity triggered by molecules derived from enterocyte-like Caco-2 cells. **2010**, 50, 335-40	15
1756	Design and characterization of an acid-activated antimicrobial peptide. **2010**, 75, 127-32	45
1755	Effect of multidrug-efflux transporter genes on dipeptide resistance and overproduction in Escherichia coli. **2010**, 304, 12-9	23
1754	Effects of the antimicrobial peptide gomesin on the global gene expression profile, virulence and biofilm formation of Xylella fastidiosa. **2010**, 306, 152-9	18
1753	Substance P primes lipoteichoic acid- and Pam3CysSerLys4-mediated activation of human mast cells by up-regulating Toll-like receptor 2. **2010**, 131, 220-30	42
1752	Antiparasitic activity of the antimicrobial peptide HbbetaP-1, a member of the beta-haemoglobin peptide family. **2010**, 33, 657-64	25
1751	The antifungal protein PAF interferes with PKC/MPK and cAMP/PKA signalling of Aspergillus nidulans. **2010**, 75, 294-307	40
1750	The role of G protein-coupled receptors in mast cell activation by antimicrobial peptides: is there a connection?. **2010**, 88, 632-40	21
1749	Antimicrobial peptides and their use in medicine. **2010**, 46, 803-814	32
1748	The interface between veterinary and human antibiotic use. **2010**, 1213, 92-105	28

1747	The major outer membrane protein OmpU of Vibrio splendidus contributes to host antimicrobial peptide resistance and is required for virulence in the oyster Crassostrea gigas. **2010**, 12, 951-63	80
1746	Efectividad del Acido Peracético sobre la reducción de la carga de Esporas de Mohos causantes de Pudrición Poscosecha de Frutas y Hortalizas. **2010**, 21,	2
1745	Immobilized artificial membrane (IAM) liquid chromatography as a model for antimicrobial peptide partitioning into cell membranes: An evaluation. **2010**, 1, 20-33	
1744	Full Issue. **2010**, 1,	
1743	Saliva: physiology and diagnostic potential in health and disease. **2010**, 10, 434-56	69
1742	Conventional and unconventional antimicrobials from fish, marine invertebrates and micro-algae. **2010**, 8, 1213-62	164
1741	Synergy with rifampin and kanamycin enhances potency, kill kinetics, and selectivity of de novo-designed antimicrobial peptides. **2010**, 54, 1693-9	54
1740	Systematic approach to optimizing specifically targeted antimicrobial peptides against Streptococcus mutans. **2010**, 54, 2143-51	49
1739	A miniature mimic of host defense peptides with systemic antibacterial efficacy. **2010**, 24, 1904-13	35
1738	Insight into invertebrate defensin mechanism of action: oyster defensins inhibit peptidoglycan biosynthesis by binding to lipid II. **2010**, 285, 29208-16	100
1737	Plant peptides govern terminal differentiation of bacteria in symbiosis. **2010**, 327, 1122-6	399
1736	Experimental conditions that enhance potency of an antibacterial oligo-acyl-lysyl. **2010**, 54, 2590-5	18
1735	Antimicrobial anxiety: the impact of stress on antimicrobial immunity. **2010**, 88, 263-77	24
1734	Vitamin D, innate immunity and upper respiratory tract infection. **2010**, 124, 465-9	48
1733	Screening for antifungal peptides and their modes of action in Aspergillus nidulans. **2010**, 76, 7102-8	39
1732	Escherichia coli cell surface perturbation and disruption induced by antimicrobial peptides BP100 and pepR. **2010**, 285, 27536-44	169
1731	Synthetic cationic peptide IDR-1002 provides protection against bacterial infections through chemokine induction and enhanced leukocyte recruitment. **2010**, 184, 2539-50	160
1730	Salmonella enterica serovar Typhi has a 4.1 kb genetic island inserted within the sapABCDF operon that causes loss of resistance to the antimicrobial peptide protamine. **2010**, 65, 1624-30	11

1729	Membrane association and pore formation by alpha-helical peptides. **2010**, 677, 24-30	16
1728	Molecular electroporation and the transduction of oligoarginines. **2009**, 7, 16001	17
1727	Powerful workhorses for antimicrobial peptide expression and characterization. **2010**, 1, 217-20	17
1726	Antimicrobial Surfaces. **2010**, 193-217	56
1725	Antimicrobial Lipids of the Skin and Tear Film. **2010**, 99-121	
1724	NMR structure of pardaxin, a pore-forming antimicrobial peptide, in lipopolysaccharide micelles: mechanism of outer membrane permeabilization. **2010**, 285, 3883-3895	105
1723	Study on an Air Filter Material Immobilized with Bio-Antimicrobials. **2010**, 152-153, 1519-1524	3
1722	Membrane structure and interactions of human catestatin by multidimensional solution and solid-state NMR spectroscopy. **2010**, 24, 1737-46	31
1721	An antimicrobial peptide that targets DNA repair intermediates in vitro inhibits Salmonella growth within murine macrophages. **2010**, 54, 1888-99	27
1720	Antimicrobial Peptides and Their Interactions with Model Membranes. **2010**, 147-165	2
1719	Antimicrobial peptides: the ancient arm of the human immune system. **2010**, 1, 440-64	477
1718	Permeabilization of fungal hyphae by the plant defensin NaD1 occurs through a cell wall-dependent process. **2010**, 285, 37513-20	129
1717	Midkine and pleiotrophin have bactericidal properties: preserved antibacterial activity in a family of heparin-binding growth factors during evolution. **2010**, 285, 16105-15	35
1716	C-terminal peptides of tissue factor pathway inhibitor are novel host defense molecules. **2010**, 285, 28387-98	51
1715	Global reemergence of tuberculosis: are host defense peptides an option to ameliorate disease burden?. **2010**, 16, 1-7	2
1714	CAMP: a useful resource for research on antimicrobial peptides. **2010**, 38, D774-80	259
1713	Insight into the mechanisms of adenovirus capsid disassembly from studies of defensin neutralization. **2010**, 6, e1000959	94
1712	Membrane damage elicits an immunomodulatory program in Staphylococcus aureus. **2010**, 6, e1000802	36

1711	Proteolysis of human thrombin generates novel host defense peptides. **2010**, 6, e1000857	112
1710	Strategies for the discovery and advancement of novel cationic antimicrobial peptides. **2010**, 10, 1872-81	63
1709	De novo designed lipopolysaccharide binding peptides: structure based development of antiendotoxic and antimicrobial drugs. **2010**, 17, 3080-93	66
1708	Synthetic membrane-targeted antibiotics. **2010**, 17, 2292-300	27
1707	Translational biophysics: the physical sciences in molecular medicine. **2010**, 2, 1633-9	1
1706	Effect of hydrophobicity on the interaction between antimicrobial peptides and poly(acrylic acid) microgels. **2010**, 114, 1307-13	45
1705	P□tidos antimicrobianos. **2010**, 14, 55-67	10
1704	Inducible innate resistance of lung epithelium to infection. **2010**, 72, 413-35	107
1703	OAK-based cochleates as a novel approach to overcome multidrug resistance in bacteria. **2010**, 24, 5092-101	25
1702	Diverse functions of glycosaminoglycans in infectious diseases. **2010**, 93, 373-94	28
1701	Cell-selective lysis by novel analogues of melittin against human red blood cells and Escherichia coli. **2010**, 49, 7920-9	82
1700	Therapeutic potential of HDPs as immunomodulatory agents. **2010**, 618, 329-47	37
1699	Design and development of peptides and peptide mimetics as antagonists for therapeutic intervention. **2010**, 2, 1813-22	109
1698	Antibacterial and lipopolysaccharide (LPS)-neutralising activity of human cationic antimicrobial peptides against periodontopathogens. **2010**, 35, 138-45	64
1697	Synthetic antimicrobial peptide L8 (MHLHKTSRVTLYLL) has membrane permeabilisation and bacterial aggregation activity. **2010**, 35, 410-1	7
1696	Reversible liposome association induced by LAH4: a peptide with potent antimicrobial and nucleic acid transfection activities. **2010**, 98, 2544-53	19
1695	NMR structures of the histidine-rich peptide LAH4 in micellar environments: membrane insertion, pH-dependent mode of antimicrobial action, and DNA transfection. **2010**, 99, 2507-15	51
1694	Membrane poration by antimicrobial peptides combining atomistic and coarse-grained descriptions. **2010**, 144, 431-43; discussion 445-81	112

1693	Interferon-inducible CXC chemokines directly contribute to host defense against inhalational anthrax in a murine model of infection. **2010**, 6, e1001199	34
1692	Structure, interactions, and antibacterial activities of MSI-594 derived mutant peptide MSI-594F5A in lipopolysaccharide micelles: role of the helical hairpin conformation in outer-membrane permeabilization. **2010**, 132, 18417-28	90
1691	Electrostatic bending of lipid membranes: how are lipid and electrostatic properties interrelated?. **2010**, 26, 14737-46	8
1690	Solution structure and membrane binding of the toxin fst of the par addiction module. **2010**, 49, 6567-75	25
1689	Duramycin-induced destabilization of a phosphatidylethanolamine monolayer at the air-water interface observed by vibrational sum-frequency generation spectroscopy. **2010**, 26, 16055-62	29
1688	Structural convergence among diverse, toxic beta-sheet ion channels. **2010**, 114, 9445-51	60
1687	Using fluorine nuclear magnetic resonance to probe the interaction of membrane-active peptides with the lipid bilayer. **2010**, 49, 5760-5	49
1686	Reverse engineering truncations of an antimicrobial peptide dimer to identify the origins of potency and broad spectrum of action. **2010**, 53, 6079-88	11
1685	Solution-phase parallel synthesis of novel membrane-targeted antibiotics. **2010**, 12, 151-60	5
1684	De novo design of antimicrobial polymers, foldamers, and small molecules: from discovery to practical applications. **2010**, 43, 30-9	447
1683	Characterisation of the anti-microbial activity of bovine milk ribonuclease4 and ribonuclease5 (angiogenin). **2010**, 20, 400-407	16
1682	Dynamics and orientation of a cationic antimicrobial peptide in two membrane-mimetic systems. **2010**, 170, 172-9	12
1681	Crystal structure of the first plant urease from jack bean: 83 years of journey from its first crystal to molecular structure. **2010**, 400, 274-83	216
1680	Studies on antibacterial activity and antibacterial mechanism of a novel polysaccharide from Streptomyces virginia H03. **2010**, 21, 1257-1262	130
1679	Molecular characterization of a crustin-like, putative antimicrobial peptide, Fi-crustin, from the Indian white shrimp, Fenneropenaeus indicus. **2010**, 28, 216-20	18
1678	Structural determinants of host defense peptides for antimicrobial activity and target cell selectivity. **2010**, 92, 1236-41	201
1677	Two recombinant peptides, SpStrongylocins 1 and 2, from Strongylocentrotus purpuratus, show antimicrobial activity against Gram-positive and Gram-negative bacteria. **2010**, 34, 286-92	24
1676	Functional role of charged residues in drosomycin, a Drosophila antifungal peptide. **2010**, 34, 953-8	14

1675	Centrocins: isolation and characterization of novel dimeric antimicrobial peptides from the green sea urchin, Strongylocentrotus droebachiensis. **2010**, 34, 959-68	51
1674	Solid state NMR analysis of peptides in membranes: Influence of dynamics and labeling scheme. **2010**, 1798, 252-7	18
1673	Can antimicrobial peptides scavenge around a cell in less than a second?. **2010**, 1798, 228-34	15
1672	The membrane insertion of helical antimicrobial peptides from the N-terminus of Helicobacter pylori ribosomal protein L1. **2010**, 1798, 544-57	43
1671	Antimicrobial peptides bind more strongly to membrane pores. **2010**, 1798, 1494-502	69
1670	Thermodynamics of RTA3 peptide binding to membranes and consequences for antimicrobial activity. **2010**, 1798, 1254-62	13
1669	Antimicrobial peptides in toroidal and cylindrical pores. **2010**, 1798, 1485-93	102
1668	Interaction studies of novel cell selective antimicrobial peptides with model membranes and E. coli ATCC 11775. **2010**, 1798, 1864-75	64
1667	Real-time quantitative analysis of lipid disordering by aurein 1.2 during membrane adsorption, destabilisation and lysis. **2010**, 1798, 1977-86	71
1666	Structural flexibility and the positive charges are the key factors in bacterial cell selectivity and membrane penetration of peptoid-substituted analog of Piscidin 1. **2010**, 1798, 1913-25	40
1665	Structural contributions to the intracellular targeting strategies of antimicrobial peptides. **2010**, 1798, 1934-43	48
1664	Membrane aggregation and perturbation induced by antimicrobial peptide of S-thanatin. **2010**, 395, 31-5	26
1663	Functional analysis of an alpha-helical antimicrobial peptide derived from a novel mouse defensin-like gene. **2010**, 398, 778-84	5
1662	cDNA sequence and expression analysis of an antimicrobial peptide, theromacin, in the triangle-shell pearl mussel Hyriopsis cumingii. **2010**, 157, 119-26	29
1661	Cloning and functional characterization of a new antimicrobial peptide gene StCT1 from the venom of the scorpion Scorpiops tibetanus. **2010**, 31, 22-6	27
1660	Antimicrobial mechanism of pore-forming protegrin peptides: 100 pores to kill E. coli. **2010**, 31, 1-8	70
1659	A fowlicidin-1 analog protects mice from lethal infections induced by methicillin-resistant Staphylococcus aureus. **2010**, 31, 1225-30	24
1658	Synthesis, characterization, antimicrobial activity and LPS-interaction properties of SB041, a novel dendrimeric peptide with antimicrobial properties. **2010**, 31, 1459-67	32

1657	Interaction of cationic antimicrobial peptides with phospholipid vesicles and their antibacterial activity. **2010**, 31, 1811-20	51
1656	Antimicrobial cyclic decapeptides with anticancer activity. **2010**, 31, 2017-26	19
1655	Antimicrobial activity of human hepcidin 20 and 25 against clinically relevant bacterial strains: effect of copper and acidic pH. **2010**, 31, 1995-2002	64
1654	Isolation and molecular cloning of venom peptides from Orancistrocerus drewseni (Hymenoptera: Eumenidae). **2010**, 55, 711-8	30
1653	Peptidomics and genomics analysis of novel antimicrobial peptides from the frog, Rana nigrovittata. **2010**, 95, 66-71	50
1652	Activity of antimicrobial peptide mimetics in the oral cavity: I. Activity against biofilms of Candida albicans. **2010**, 25, 418-25	35
1651	Helical membrane peptides to modulate cell function. **2010**, 39, 2146-57	34
1650	Effects of Trp- and Arg-containing antimicrobial-peptide structure on inhibition of Escherichia coli planktonic growth and biofilm formation. **2010**, 76, 1967-74	35
1649	Molecular self-assembly and applications of designer peptide amphiphiles. **2010**, 39, 3480-98	519
1648	Cationic amphiphiles, a new generation of antimicrobials inspired by the natural antimicrobial peptide scaffold. **2010**, 54, 4049-58	227
1647	Short cationic antimicrobial peptides interact with ATP. **2010**, 54, 4480-3	57
1646	Antibacterial Peptidomimetics: Polymeric Synthetic Mimics of Antimicrobial Peptides. **2010**, 141-172	25
1645	Novel technologies for the prevention and treatment of dental caries: a patent survey. **2010**, 20, 681-94	60
1644	Polymer multilayers with pH-triggered release of antibacterial agents. **2010**, 11, 3448-56	123
1643	Antimicrobial Peptides. **2010**,	8
1642	Vitamin D: emerging roles in infection and immunity. **2010**, 8, 1359-69	74
1641	Membrane perturbation activity of cationic phenylene ethynylene oligomers and polymers: selectivity against model bacterial and mammalian membranes. **2010**, 26, 12509-14	69
1640	High potency and broad-spectrum antimicrobial peptides synthesized via ring-opening polymerization of alpha-aminoacid-N-carboxyanhydrides. **2010**, 11, 60-7	125

1639	Influence of sequence on the self-assembly of peptide nanoribbons on silicon substrates. **2010**, 114, 16650-4	8
1638	Cationic antimicrobial peptides: a physical basis for their selective membrane-disrupting activity. **2010**, 6, 1933	13
1637	Evaluation of synergistic activity of bovine lactoferricin with antibiotics in corneal infection. **2010**, 65, 1243-51	59
1636	Effect of a negatively charged lipid on membrane-lacticin Q interaction and resulting pore formation. **2010**, 74, 218-21	8
1635	Mechanisms mediating bactericidal properties and conditions that enhance the potency of a broad-spectrum oligo-acyl-lysyl. **2011**, 55, 688-95	16
1634	Characterizations of interaction between antimicrobial peptide (JCpep7) and living staphylococcus aureus used as pseudostationary phase in capillary electrochromatography. **2011**, 3, 2579	1
1633	Supramolecular assembly of a biomineralizing antimicrobial peptide in coarse-grained Monte Carlo simulations. **2011**, 13, 1123-30	10
1632	Targeted antimicrobial moieties (WO2010080819): patent evaluation. **2011**, 21, 593-600	
1631	Effect of cholesterol on the membrane interaction of Modelin-5 isoforms. **2011**, 50, 10898-909	11
1630	The CpxR/CpxA two-component system up-regulates two Tat-dependent peptidoglycan amidases to confer bacterial resistance to antimicrobial peptide. **2011**, 286, 5529-39	66
1629	Using infrared spectroscopy of cyanylated cysteine to map the membrane binding structure and orientation of the hybrid antimicrobial peptide CM15. **2011**, 50, 11097-108	27
1628	Using fluorine nuclear magnetic resonance to probe changes in the structure and dynamics of membrane-active peptides interacting with lipid bilayers. **2011**, 50, 5979-87	25
1627	Synthesis and structural investigations of functionalizable hybrid □-hairpin. **2011**, 13, 4482-5	16
1626	Lipid composition influences the membrane-disrupting activity of antimicrobial methacrylate co-polymers. **2011**, 22, 2041-61	10
1625	Effect of polymer chain length on membrane perturbation activity of cationic phenylene ethynylene oligomers and polymers. **2011**, 27, 10770-5	38
1624	Membrane orientation of MSI-78 measured by sum frequency generation vibrational spectroscopy. **2011**, 27, 7760-7	75
1623	Diffusion as a probe of peptide-induced membrane domain formation. **2011**, 50, 2291-7	8
1622	Investigations of the interactions between synthetic antimicrobial polymers and substrate-supported lipid bilayers using sum frequency generation vibrational spectroscopy. **2011**, 83, 1342-9	25

1621	Mechanism of polymer-induced hemolysis: nanosized pore formation and osmotic lysis. **2011**, 12, 260-8	83
1620	Bactericidal microparticles decorated by an antimicrobial peptide for the easy disinfection of sensitive aqueous solutions. **2011**, 12, 1259-64	44
1619	Selective acylation enhances membrane charge sensitivity of the antimicrobial peptide mastoparan-x. **2011**, 100, 399-409	25
1618	Lipid-controlled peptide topology and interactions in bilayers: structural insights into the synergistic enhancement of the antimicrobial activities of PGLa and magainin 2. **2011**, 100, 1473-80	79
1617	Antimicrobial protegrin-1 forms amyloid-like fibrils with rapid kinetics suggesting a functional link. **2011**, 100, 1775-83	91
1616	Molecular dynamics simulation of the antiamoebin ion channel: linking structure and conductance. **2011**, 100, 2394-402	31
1615	The molecular basis for antimicrobial activity of pore-forming cyclic peptides. **2011**, 100, 2422-31	58
1614	Lactoferrin-derived antimicrobial peptide induces a micellar cubic phase in a model membrane system. **2011**, 101, L20-2	22
1613	Solution and solid-state NMR structural studies of antimicrobial peptides LPcin-I and LPcin-II. **2011**, 101, 1193-201	16
1612	Amphipathic antimicrobial piscidin in magnetically aligned lipid bilayers. **2011**, 101, 1086-94	26
1611	Venom Composition and Strategies in Spiders: Is Everything Possible?. **2011**, 40, 1-86	98
1610	Killer peptide: a novel paradigm of antimicrobial, antiviral and immunomodulatory auto-delivering drugs. **2011**, 3, 1209-31	19
1609	Impact of ultrafiltration membrane material on Peptide separation from a snow crab byproduct hydrolysate by electrodialysis with ultrafiltration membranes. **2011**, 59, 1784-92	50
1608	Criterion for amino acid composition of defensins and antimicrobial peptides based on geometry of membrane destabilization. **2011**, 133, 6720-7	158
1607	The potential of antimicrobial peptides as biocides. **2011**, 12, 6566-96	117
1606	Therapeutic Potential of Anti-Microbial Peptides from Insects. **2011**, 29-65	3
1605	Pardaxin, an antimicrobial peptide, triggers caspase-dependent and ROS-mediated apoptosis in HT-1080 cells. **2011**, 9, 1995-2009	66
1604	Efficient screening of a novel antimicrobial peptide from Jatropha curcas by cell membrane affinity chromatography. **2011**, 59, 1145-51	39

1603	Vejovine, a new antibiotic from the scorpion venom of Vaejovis mexicanus. **2011**, 57, 84-92	48
1602	Membrane-damaging activity of Taiwan cobra cardiotoxin 3 is responsible for its bactericidal activity. **2011**, 58, 46-53	33
1601	Neue Polymere gegen multiresistente Bakterien. **2011**, 59, 719-723	1
1600	Class IId or Linear and Non-Pediocin-Like Bacteriocins. **2011**, 237-252	13
1599	Design and Engineering Strategies for Synthetic Antimicrobial Peptides. **2011**, 81-98	3
1598	Molecular mechanism of action of β-hairpin antimicrobial peptide arenicin: oligomeric structure in dodecylphosphocholine micelles and pore formation in planar lipid bilayers. **2011**, 50, 6255-65	63
1597	Development of Antimicrobial Peptides as Therapeutic Agents. **2011**, 1	1
1596	Temperature-dependent modulation of Porphyromonas gingivalis lipid A structure and interaction with the innate host defenses. **2011**, 79, 1187-93	58
1595	Structural features governing the activity of lactoferricin-derived peptides that act in synergy with antibiotics against Pseudomonas aeruginosa in vitro and in vivo. **2011**, 55, 218-28	40
1594	Use of antimicrobial peptides against microbial biofilms: advantages and limits. **2011**, 18, 256-79	156
1593	Antibacterial mechanism of action of arylamide foldamers. **2011**, 55, 5043-53	64
1592	Insect Biotechnology. **2011**,	7
1591	Genetics and Biosynthesis of Lipid A. **2011**, 163-193	1
1590	Structures of β-hairpin antimicrobial protegrin peptides in lipopolysaccharide membranes: mechanism of gram selectivity obtained from solid-state nuclear magnetic resonance. **2011**, 50, 2072-83	40
1589	Solution structure of LCI, a novel antimicrobial peptide from Bacillus subtilis. **2011**, 50, 3621-7	35
1588	Characterization of supported lipid bilayer disruption by chrysophsin-3 using QCM-D. **2011**, 115, 15228-35	40
1587	Effects of D-Lysine Substitutions on the Activity and Selectivity of Antimicrobial Peptide CM15. **2011**, 3, 2088-2106	17
1586	Molecular characterization of hepcidin AS-hepc2 and AS-hepc6 in black porgy (Acanthopagrus schlegelii): expression pattern responded to bacterial challenge and in vitro antimicrobial activity. **2011**, 158, 155-63	39

1585	A calmodulin-dependent translocation pathway for small secretory proteins. **2011**, 147, 1576-88	91
1584	Characterization of the novel antibacterial peptide Leucrocin from crocodile (Crocodylus siamensis) white blood cell extracts. **2011**, 35, 545-53	58
1583	Molecular cloning, genomic organization and antibacterial activity of a second isoform of antilipopolysaccharide factor (ALF) from the mud crab, Scylla paramamosain. **2011**, 30, 58-66	40
1582	Six defensins from the triangle-shell pearl mussel Hyriopsis cumingii. **2011**, 31, 1232-8	15
1581	Gene cloning and characterization of novel antinociceptive peptide from the brain of the frog, Odorrana grahami. **2011**, 93, 1110-4	6
1580	Can plant defensins be used to engineer durable commercially useful fungal resistance in crop plants?. **2011**, 25, 128-135	36
1579	Viral channel forming proteins - modeling the target. **2011**, 1808, 561-71	24
1578	Probing membrane topology of the antimicrobial peptide distinctin by solid-state NMR spectroscopy in zwitterionic and charged lipid bilayers. **2011**, 1808, 34-40	24
1577	Effects of peptide hydrophobicity on its incorporation in phospholipid membranes--an NMR and ellipsometry study. **2011**, 1808, 244-52	17
1576	Structure and mechanism of action of a de novo antimicrobial detergent-like peptide. **2011**, 1808, 106-16	30
1575	A plausible mode of action of pseudin-2, an antimicrobial peptide from Pseudis paradoxa. **2011**, 1808, 171-82	42
1574	Oligomeric structure of a cathelicidin antimicrobial peptide in dodecylphosphocholine micelle determined by NMR spectroscopy. **2011**, 1808, 369-81	30
1573	Investigating the effects of L- to D-amino acid substitution and deamidation on the activity and membrane interactions of antimicrobial peptide anoplin. **2011**, 1808, 1592-600	27
1572	Membrane selectivity by W-tagging of antimicrobial peptides. **2011**, 1808, 1081-91	65
1571	Microcin J25 membrane interaction: selectivity toward gel phase. **2011**, 1808, 1764-71	10
1570	Cationic amphipathic peptides accumulate sialylated proteins and lipids in the plasma membrane of eukaryotic host cells. **2011**, 1808, 2581-90	13
1569	Probing membrane permeabilization by the antimicrobial peptide distinctin in mercury-supported biomimetic membranes. **2011**, 1808, 2745-52	24
1568	The binding of an amphipathic peptide to lipid monolayers at the air/water interface is modulated by the lipid headgroup structure. **2011**, 27, 2811-8	24

1567	Vitamin D and tonsil disease--preliminary observations. **2011**, 75, 261-4	29
1566	Molecular characterization of a crustin-like antimicrobial peptide in the giant tiger shrimp, Penaeus monodon, and its expression profile in response to various immunostimulants and challenge with WSSV. **2011**, 216, 184-94	56
1565	Innate immunity effectors and virulence factors in symbiosis. **2011**, 14, 76-81	23
1564	Manduca sexta moricin promoter elements can increase promoter activities of Drosophila melanogaster antimicrobial peptide genes. **2011**, 41, 982-92	13
1563	Synthetic mimics of antimicrobial peptides from triaryl scaffolds. **2011**, 54, 2241-54	45
1562	Identification and characterization of anti-microbial peptides from rabbit vaginal fluid. **2011**, 139, 176-86	13
1561	Computational studies of protegrin antimicrobial peptides: a review. **2011**, 32, 188-201	54
1560	Identification of a cysteine-rich antimicrobial peptide from salivary glands of the tick Rhipicephalus haemaphysaloides. **2011**, 32, 441-6	12
1559	Venom peptides from solitary hunting wasps induce feeding disorder in lepidopteran larvae. **2011**, 32, 568-72	14
1558	The activity of antimicrobial peptide S-thanatin is independent on multidrug-resistant spectrum of bacteria. **2011**, 32, 1139-45	24
1557	High content analysis to determine cytotoxicity of the antimicrobial peptide, melittin and selected structural analogs. **2011**, 32, 1764-73	22
1556	Antimicrobial and antibiofilm activity of pleurocidin against cariogenic microorganisms. **2011**, 32, 1748-54	42
1555	Bactericidal effect of Naja nigricollis toxin is related to its membrane-damaging activity. **2011**, 32, 1755-63	12
1554	Structural and biological characterization of mastoparans in the venom of Vespa species in Taiwan. **2011**, 32, 2027-36	25
1553	Functional characterization of codCath, the mature cathelicidin antimicrobial peptide from Atlantic cod (Gadus morhua). **2011**, 32, 2044-51	36
1552	Natural roles of antimicrobial peptides in microbes, plants and animals. **2011**, 162, 363-74	188
1551	Tolerance of bacteriuria after urinary diversion is linked to antimicrobial peptide activity. **2011**, 77, 509.e1-8	12
1550	Will new generations of modified antimicrobial peptides improve their potential as pharmaceuticals?. **2011**, 38, 217-25	212

1549	Structure and antimicrobial properties of multivalent short peptides. **2011**, 2, 308	31
1548	Morphological changes induced by the action of antimicrobial peptides on supported lipid bilayers. **2011**, 115, 158-67	25
1547	Examination of a synthetic benzophenone membrane-targeted antibiotic. **2011**, 9, 6367-72	21
1546	Road to clinical efficacy: challenges and novel strategies for antimicrobial peptide development. **2011**, 6, 635-51	143
1545	Membrane activity of tetra-p-guanidinoethylcalix[4]arene as a possible reason for its antibacterial properties. **2011**, 115, 15002-12	34
1544	Development of Wide-Spectrum Hybrid Bacteriocins for Food Biopreservation. **2011**, 4, 1029-1049	35
1543	L-isoleucine-supplemented oral rehydration solution in the treatment of acute diarrhoea in children: a randomized controlled trial. **2011**, 29, 183-90	11
1542	. **2011**,	23
1541	Antimicrobial Biomimetics. **2011**,	1
1540	. **2011**,	23
1539	Extreme antimicrobial Peptide and polymyxin B resistance in the genus burkholderia. **2011**, 2, 159	62
1538	Detection and extraction of anti-listeral compounds from Calligonum comosum, a medical plant from arid regions of Tunisia. **2011**, 8,	5
1537	Taking Out TB-Lysosomal Trafficking and Mycobactericidal Ubiquitin-Derived Peptides. **2011**, 2, 7	7
1536	Lipooligosaccharide Structure is an Important Determinant in the Resistance of Neisseria Gonorrhoeae to Antimicrobial Agents of Innate Host Defense. **2011**, 2, 30	22
1535	Resistance of Neisseria gonorrhoeae to neutrophils. **2011**, 2, 77	49
1534	Extreme antimicrobial peptide and polymyxin B resistance in the genus Burkholderia. **2011**, 1, 6	29
1533	Highly selective end-tagged antimicrobial peptides derived from PRELP. **2011**, 6, e16400	55
1532	Cathelicidin-BF, a snake cathelicidin-derived antimicrobial peptide, could be an excellent therapeutic agent for acne vulgaris. **2011**, 6, e22120	63

1531	Prediction of antibacterial activity from physicochemical properties of antimicrobial peptides. **2011**, 6, e28549		40
1530	Recombinant Antimicrobial Peptides. **2011**, 227-260		
1529	The effects of Leu or Val residues on cell selectivity of α-helical peptides. **2011**, 18, 1112-8		5
1528	Defensins: Key Molecules in Ocular Surface Protection. **2011**, 7, 295-307		
1527	Identifying Novel Antimicrobial Peptides with Therapeutic Potential Against Multidrug-Resistant Bacteria by Using the SPOT Synthesis. **2011**, 8, 157-163		5
1526	Marketing Antimicrobial Peptides: A Critical Academic Point of View. **2011**, 57-69		1
1525	Defensins enable macrophages to inhibit the intracellular proliferation of Listeria monocytogenes. **2011**, 13, 635-51		45
1524	Antimicrobial β-peptides and β-peptoids. **2011**, 77, 107-16		97
1523	The activity of bacteriocins from Carnobacterium maltaromaticum UAL307 against gram-negative bacteria in combination with EDTA treatment. **2011**, 317, 152-9		64
1522	Antimicrobial peptides and periodontal disease. **2011**, 38 Suppl 11, 126-41		108
1521	Thymic stromal lymphopoietin exerts antimicrobial activities. **2011**, 20, 1004-10		24
1520	Biodegradable nanostructures with selective lysis of microbial membranes. **2011**, 3, 409-14		436
1519	Targeting bacterial membrane function: an underexploited mechanism for treating persistent infections. *Nature Reviews Microbiology*, **2011**, 9, 62-75	22.2	537
1518	The expanding scope of antimicrobial peptide structures and their modes of action. **2011**, 29, 464-72		981
1517	Additive effects of orexin B and vasoactive intestinal polypeptide on LL-37-mediated antimicrobial activities. **2011**, 233, 37-45		18
1516	A new approach to detect and study ion channel formation in microBLMs. **2011**, 13, 834-836		11
1515	Antimicrobial and DNA-binding activities of the peptide fragments of human lactoferrin and histatin 5 against Streptococcus mutans. **2011**, 56, 869-76		50
1514	Tethering antimicrobial peptides: current status and potential challenges. **2011**, 29, 67-74		227

1513	Antimicrobial peptides from marine invertebrates: challenges and perspectives in marine antimicrobial peptide discovery. **2011**, 29, 519-30	99
1512	The effect of the placement and total charge of the basic amino acid clusters on antibacterial organism selectivity and potency. **2011**, 19, 7008-22	11
1511	Determining the effect of the incorporation of unnatural amino acids into antimicrobial peptides on the interactions with zwitterionic and anionic membrane model systems. **2011**, 164, 740-58	17
1510	Antibacterial studies of cationic polymers with alternating, random, and uniform backbones. **2011**, 6, 590-9	84
1509	Block versus random amphiphilic copolymers as antibacterial agents. **2011**, 12, 3581-91	158
1508	Antimicrobial Peptides. **2011**, 195-225	1
1507	Long-term-stable ether-lipid vs conventional ester-lipid bicelles in oriented solid-state NMR: altered structural information in studies of antimicrobial peptides. **2011**, 115, 1767-74	25
1506	Antimicrobial peptides: the mode of action and perspectives of practical application. **2011**, 5, 95-102	4
1505	The antifungal effect of peptides from hymenoptera venom and their analogs. **2011**, 6, 150-159	5
1504	Pathogenic and mutualistic plant-bacteria interactions: ever increasing similarities. **2011**, 6, 911-917	5
1503	Dimeric cationic amphiphilic polyproline helices for mitochondrial targeting. **2011**, 28, 2797-807	9
1502	Antibacterial Activity, Cytotoxicity and Mechanisms of action of Cathelicidin Peptides against Enteric Pathogens in Weaning Piglets. **2011**, 17, 175-184	14
1501	Antimicrobial peptides from Phyllomedusa frogs: from biomolecular diversity to potential nanotechnologic medical applications. **2011**, 40, 29-49	45
1500	C-terminal amidation of PMAP-23: translocation to the inner membrane of Gram-negative bacteria. **2011**, 40, 183-95	61
1499	Function and evolution of nodulation genes in legumes. **2011**, 68, 1341-51	20
1498	Multifunctional cationic host defence peptides and their clinical applications. **2011**, 68, 2161-76	434
1497	Beyond natural antimicrobial peptides: multimeric peptides and other peptidomimetic approaches. **2011**, 68, 2255-66	106
1496	Short native antimicrobial peptides and engineered ultrashort lipopeptides: similarities and differences in cell specificities and modes of action. **2011**, 68, 2267-80	111

1495	Proline-rich antimicrobial peptides: converging to a non-lytic mechanism of action. **2011**, 68, 2317-30	164
1494	67-106 of bovine hemoglobin: a new family of antimicrobial and angiotensin I-converting enzyme inhibitory peptides. **2011**, 232, 637-646	48
1493	Knowledge-based computational methods for identifying or designing novel, non-homologous antimicrobial peptides. **2011**, 40, 371-85	44
1492	Antimicrobial peptides with cell-penetrating peptide properties and vice versa. **2011**, 40, 387-97	198
1491	Investigating the effect of a single glycine to alanine substitution on interactions of antimicrobial peptide latarcin 2a with a lipid membrane. **2011**, 40, 1087-100	30
1490	Covalent immobilization of antimicrobial peptides (AMPs) onto biomaterial surfaces. **2011**, 7, 1431-40	425
1489	Generation of novel cationic antimicrobial peptides from natural non-antimicrobial sequences by acid-amide substitution. **2011**, 10, 11	12
1488	Global network analysis of drug tolerance, mode of action and virulence in methicillin-resistant S. aureus. **2011**, 5, 68	31
1487	Impact of acute stress on antimicrobial polypeptides mRNA copy number in several tissues of marine sea bass (Dicentrarchus labrax). **2011**, 12, 69	27
1486	Natural and synthetic cathelicidin peptides with anti-microbial and anti-biofilm activity against Staphylococcus aureus. **2011**, 11, 114	149
1485	Contribution of bacterial outer membrane vesicles to innate bacterial defense. **2011**, 11, 258	321
1484	Insights into the mechanisms of action of host defence peptides from biophysical and structural investigations. **2011**, 17, 306-14	70
1483	Dermaseptin 01 as antimicrobial peptide with rich biotechnological potential: study of peptide interaction with membranes containing Leishmania amazonensis lipid-rich extract and membrane models. **2011**, 17, 700-7	19
1482	Monitoring of peptide induced disruption of artificial lipid membrane constructed on boron-doped nanocrystalline diamond by electrochemical impedance spectroscopy. **2011**, 208, 2099-2103	4
1481	Structure and dynamics of cationic membrane peptides and proteins: insights from solid-state NMR. **2011**, 20, 641-55	79
1480	Mechanistic considerations on contact-active antimicrobial surfaces with controlled functional group densities. **2011**, 11, 526-34	96
1479	Oxazoline-based antimicrobial oligomers: synthesis by CROP using supercritical CO2. **2011**, 11, 1128-37	29
1478	Antifouling coatings: recent developments in the design of surfaces that prevent fouling by proteins, bacteria, and marine organisms. **2011**, 23, 690-718	1916

1477	Cathelin-related antimicrobial peptide differentially regulates T- and B-cell function. **2011**, 41, 3006-16	34
1476	The Generation of Antimicrobial Peptide Activity: A Trade-off between Charge and Aggregation?. **2011**, 123, 10874-10877	6
1475	The generation of antimicrobial peptide activity: a trade-off between charge and aggregation?. **2011**, 50, 10686-9	43
1474	Evaluation of the in vitro activity of dermaseptin 01, a cationic antimicrobial peptide, against Schistosoma mansoni. **2011**, 8, 548-58	28
1473	Mapping residue-specific contacts of polymyxin B with lipopolysaccharide by saturation transfer difference NMR: insights into outer-membrane disruption and endotoxin neutralization. **2011**, 96, 273-87	25
1472	A new bioproduction route for a novel antimicrobial peptide. **2011**, 108, 572-81	18
1471	Protein epitope mimetics as anti-infectives. **2011**, 15, 379-86	23
1470	Can the interaction between the antimicrobial peptide LL-37 and alginate be exploited for the formulation of new biomaterials with antimicrobial properties?. **2011**, 83, 578-585	15
1469	A synthetic peptide selectively kills only virulent Paracoccidioides brasiliensis yeasts. **2011**, 13, 251-60	6
1468	Cathelicidins□herapeutic antimicrobial and antitumor host defense peptides for oral diseases. **2011**, 47, 67-81	9
1467	Biological control of wood decay against fungal infection. **2011**, 92, 1681-9	33
1466	Interaction of the cationic peptide bactenecin with mixed phospholipid monolayers at the air-water interface. **2011**, 359, 279-88	12
1465	Small-angle X-ray scattering studies of peptide-lipid interactions using the mouse paneth cell □defensin cryptdin-4. **2011**, 492, 127-49	3
1464	From the stretcher to the pharmacy's shelf: drug leads from medically important brazilian venomous arachnid species. **2011**, 10, 411-9	9
1463	Peptoids: bio-inspired polymers as potential pharmaceuticals. **2011**, 17, 2732-47	59
1462	Antimicrobial peptides from amphibians. **2011**, 2, 27-38	10
1461	Efficacy of antimicrobial peptoids against Mycobacterium tuberculosis. **2011**, 55, 3058-62	80
1460	Improvement of the efficacy of linear undecapeptides against plant-pathogenic bacteria by incorporation of D-amino acids. **2011**, 77, 2667-75	42

1459	The role of antimicrobial peptides in preventing multidrug-resistant bacterial infections and biofilm formation. **2011**, 12, 5971-92	195
1458	Islet amyloid polypeptide demonstrates a persistent capacity to disrupt membrane integrity. **2011**, 108, 9460-5	113
1457	Antiplasmodial properties of acyl-lysyl oligomers in culture and animal models of malaria. **2011**, 55, 3803-11	8
1456	Rationale-based, de novo design of dehydrophenylalanine-containing antibiotic peptides and systematic modification in sequence for enhanced potency. **2011**, 55, 2178-88	39
1455	Analysis of the networks controlling the antimicrobial-peptide-dependent induction of Klebsiella pneumoniae virulence factors. **2011**, 79, 3718-32	76
1454	Heme utilization by nontypeable Haemophilus influenzae is essential and dependent on Sap transporter function. **2011**, 193, 2527-35	52
1453	The zebrafish embryo as a tool for screening and characterizing pleurocidin host-defense peptides as anti-cancer agents. **2011**, 4, 622-33	33
1452	NMR structures and interactions of temporin-1Tl and temporin-1Tb with lipopolysaccharide micelles: mechanistic insights into outer membrane permeabilization and synergistic activity. **2011**, 286, 24394-406	73
1451	Endocytosis-mediated vacuolar accumulation of the human ApoE apolipoprotein-derived ApoEdpL-W antimicrobial peptide contributes to its antifungal activity in Candida albicans. **2011**, 55, 4670-81	35
1450	Polymyxin-resistant clinical isolates of Escherichia coli. **2011**, 55, 388-9	21
1449	Bioactivity and the first transmission electron microscopy immunogold studies of short de novo-designed antimicrobial peptides. **2011**, 55, 2137-45	22
1448	A Mig-14-like protein (PA5003) affects antimicrobial peptide recognition in Pseudomonas aeruginosa. **2011**, 157, 2647-2657	12
1447	Underlying mechanism of in vivo and in vitro activity of C-terminal-amidated thanatin against clinical isolates of extended-spectrum beta-lactamase-producing Escherichia coli. **2011**, 203, 273-82	29
1446	Deletion of mtrC in Haemophilus ducreyi increases sensitivity to human antimicrobial peptides and activates the CpxRA regulon. **2011**, 79, 2324-34	32
1445	Bactericidal activity of mouse □defensin cryptdin-4 predominantly affects noncommensal bacteria. **2011**, 3, 315-26	67
1444	Skin commensals amplify the innate immune response to pathogens by activation of distinct signaling pathways. **2011**, 131, 382-90	169
1443	An antimicrobial peptide is downregulated in the small intestine of Eimeria maxima-infected chickens. **2011**, 90, 1212-9	25
1442	Lacticin Q-mediated selective toxicity depending on physicochemical features of membrane components. **2011**, 55, 2446-50	20

1441	Multiple peptide resistance factor (MprF)-mediated Resistance of Staphylococcus aureus against antimicrobial peptides coincides with a modulated peptide interaction with artificial membranes comprising lysyl-phosphatidylglycerol. **2011**, 286, 18692-700	66
1440	Structure-activity studies and therapeutic potential of host defense peptides of human thrombin. **2011**, 55, 2880-90	53
1439	Real-time attack on single Escherichia coli cells by the human antimicrobial peptide LL-37. **2011**, 108, E77-81	174
1438	Modulation of early □-defensin-2 production as a mechanism developed by type I Toxoplasma gondii to evade human intestinal immunity. **2011**, 79, 2043-50	15
1437	Deciphering the mode of action of the synthetic antimicrobial peptide Bac8c. **2011**, 55, 1706-16	77
1436	Heteroresistance of opportunistic bacteria to antimicrobial peptides: a new challenge to antimicrobial therapy of cystic fibrosis infections. **2011**, 8, 591-595	1
1435	Structure and function of papiliocin with antimicrobial and anti-inflammatory activities isolated from the swallowtail butterfly, Papilio xuthus. **2011**, 286, 41296-41311	77
1434	Disulfide-stabilized helical hairpin structure and activity of a novel antifungal peptide EcAMP1 from seeds of barnyard grass (Echinochloa crus-galli). **2011**, 286, 25145-53	65
1433	Antimicrobial peptides: modes of mechanism, modulation of defense responses. **2011**, 6, 1325-32	64
1432	Effects of fruit and vegetable low molecular mass fractions on gene expression in gingival cells challenged with Prevotella intermedia and Actinomyces naeslundii. **2011**, 2011, 230630	3
1431	Antifungal activities of peptides derived from domain 5 of high-molecular-weight kininogen. **2011**, 2011, 761037	10
1430	C- and N-truncated antimicrobial peptides from LFampin 265 - 284: Biophysical versus microbiology results. **2011**, 3, 60-9	16
1429	Bioactive coating of titanium surfaces with recombinant human □-defensin-2 (rHu□D2) may prevent bacterial colonization in orthopaedic surgery. **2011**, 93, 840-6	18
1428	A novel target-specific, salt-resistant antimicrobial peptide against the cariogenic pathogen Streptococcus mutans. **2011**, 55, 5205-13	60
1427	Dark Antimicrobial Mechanisms of Cationic Phenylene Ethynylene Polymers and Oligomers against Escherichia coli. **2011**, 3, 1199-1214	34
1426	Sap transporter mediated import and subsequent degradation of antimicrobial peptides in Haemophilus. **2011**, 7, e1002360	56
1425	The SV40 late protein VP4 is a viroporin that forms pores to disrupt membranes for viral release. **2011**, 7, e1002116	38
1424	Induction of a peptide with activity against a broad spectrum of pathogens in the Aedes aegypti salivary gland, following Infection with Dengue Virus. **2011**, 7, e1001252	124

1423	Activity and Mechanism of Antimicrobial Peptide-Mimetic Amphiphilic Polymethacrylate Derivatives. **2011**, 3, 1512-1532	80
1422	Antimicrobial activities of chemokines: not just a side-effect?. **2012**, 3, 213	55
1421	Exploring new biological functions of amyloids: bacteria cell agglutination mediated by host protein aggregation. **2012**, 8, e1003005	68
1420	Antimicrobial Peptides can Enhance the Risk of Persistent Infections. **2012**, 3, 222	7
1419	Förster resonance energy transfer (FRET) between heterogeneously distributed probes: application to lipid nanodomains and pores. **2012**, 13, 16141-56	12
1418	Human Defensins: Potential Tools for Clinical Applications. **2012**, 4, 691-709	26
1417	Multiscale models of the antimicrobial peptide protegrin-1 on gram-negative bacteria membranes. **2012**, 13, 11000-11	10
1416	Deciphering the acylation pattern of Yersinia enterocolitica lipid A. **2012**, 8, e1002978	26
1415	D-alanylation of lipoteichoic acids confers resistance to cationic peptides in group B streptococcus by increasing the cell wall density. **2012**, 8, e1002891	102
1414	Antifungal activity of (KW)n or (RW)n peptide against Fusarium solani and Fusarium oxysporum. **2012**, 13, 15042-53	23
1413	Salivary defense proteins: their network and role in innate and acquired oral immunity. **2012**, 13, 4295-320	194
1412	The oligo-acyl lysyl antimicrobial peptide C[illegible]-2[illegible]exhibits a dual mechanism of action and demonstrates strong in vivo efficacy against Helicobacter pylori. **2012**, 56, 378-90	29
1411	Molecular basis of Yersinia enterocolitica temperature-dependent resistance to antimicrobial peptides. **2012**, 194, 3173-88	33
1410	Variation in Streptococcus pneumoniae susceptibility to human antimicrobial peptides may mediate intraspecific competition. **2012**, 279, 3803-11	21
1409	The Simian virus 40 late viral protein VP4 disrupts the nuclear envelope for viral release. **2012**, 86, 3180-92	21
1408	Conformational flexibility determines selectivity and antibacterial, antiplasmodial, and anticancer potency of cationic [illegible]helical peptides. **2012**, 287, 34120-33	57
1407	AVPpred: collection and prediction of highly effective antiviral peptides. **2012**, 40, W199-204	142
1406	An Escherichia coli cell membrane chromatography-offline LC-TOF-MS method for screening and identifying antimicrobial peptides from Jatropha curcas meal protein isolate hydrolysates. **2012**, 17, 752-60	20

1405	Efficacy of OH-CATH30 and its analogs against drug-resistant bacteria in vitro and in mouse models. **2012**, 56, 3309-17	51
1404	Therapeutic potential of host defense peptides in antibiotic-resistant infections. **2012**, 18, 807-19	150
1403	Identification and design of antimicrobial peptides for therapeutic applications. **2012**, 13, 211-23	39
1402	Role of defensins and cathelicidin LL37 in auto-immune and auto-inflammatory diseases. **2012**, 13, 1882-97	39
1401	Initial insights into structure-activity relationships of avian defensins. **2012**, 287, 7746-55	22
1400	Enterohemorrhagic and enteropathogenic Escherichia coli evolved different strategies to resist antimicrobial peptides. **2012**, 3, 556-61	15
1399	Genome-wide analysis of the response of Dickeya dadantii 3937 to plant antimicrobial peptides. **2012**, 25, 523-33	18
1398	Sometimes it takes two to tango: contributions of dimerization to functions of human □defensin HNP1 peptide. **2012**, 287, 8944-53	39
1397	DAMPD: a manually curated antimicrobial peptide database. **2012**, 40, D1108-12	80
1396	Critical adsorption controls translocation of polymer chains through lipid bilayers and permeation of solvent. **2012**, 98, 18003	27
1395	Aberrant action of amyloidogenic host defense peptides: a new paradigm to investigate neurodegenerative disorders?. **2012**, 26, 1776-81	27
1394	Drug efflux by a small multidrug resistance protein is inhibited by a transmembrane peptide. **2012**, 56, 3911-6	15
1393	CCL1 released from M2b macrophages is essentially required for the maintenance of their properties. **2012**, 92, 859-67	31
1392	Battacin (Octapeptin B5), a new cyclic lipopeptide antibiotic from Paenibacillus tianmuensis active against multidrug-resistant Gram-negative bacteria. **2012**, 56, 1458-65	79
1391	Treponema denticola interactions with host proteins. **2012**, 4,	31
1390	Antimicrobial action and cell agglutination by the eosinophil cationic protein are modulated by the cell wall lipopolysaccharide structure. **2012**, 56, 2378-85	49
1389	Antimicrobial chemokines. **2012**, 3, 276	40
1388	Coleopteran antimicrobial peptides: prospects for clinical applications. **2012**, 2012, 101989	20

1387	Defense peptides secreted by helminth pathogens: antimicrobial and/or immunomodulator molecules?. **2012**, 3, 269	13
1386	The Staphylococcus aureus two-component regulatory system, GraRS, senses and confers resistance to selected cationic antimicrobial peptides. **2012**, 80, 74-81	101
1385	Scaling Law ofs-Wave Valence Proton Distributions. **2012**, 14, 402-404	
1384	Mei Symmetry and New Conserved Quantities of Tzŏoff Equations for the Variable Mass Higher-Order Nonholonomic System. **2012**, 29, 020201	
1383	Propagation properties of stochastic electromagnetic double-vortex beams in a turbulent atmosphere. **2012**, 21, 084203	4
1382	Influence of truncation of avian -defensin-4 on biological activity and peptide-membrane interaction. **2012**, 19, 430-8	5
1381	Novel design of short antimicrobial peptides derived from the bactericidal domain of avian -defensin-4. **2012**, 19, 1212-9	7
1380	Development of specific radiopharmaceuticals for infection imaging by targeting infectious micro-organisms. **2012**, 18, 1098-106	21
1379	Mechanism of action and relationship between structure and biological activity of Ctx-Ha: a new ceratotoxin-like peptide from Hypsiboas albopunctatus. **2012**, 19, 596-603	29
1378	TRC40 can deliver short secretory proteins to the Sec61 translocon. **2012**, 125, 3612-20	48
1377	Determining the orientation and localization of membrane-bound peptides. **2012**, 13, 267-79	15
1376	The polymorphic nature of membrane-active peptides from biophysical and structural investigations. **2012**, 13, 602-10	20
1375	How the Antimicrobial Peptides Kill Bacteria: Computational Physics Insights. **2012**, 11, 709-725	18
1374	Deciphering mechanisms of staphylococcal biofilm evasion of host immunity. **2012**, 2, 62	96
1373	Direct and indirect antimicrobial activities of neuropeptides and their therapeutic potential. **2012**, 13, 723-38	52
1372	pH-Dependent Interactions between Membrane and Histidine-containing Peptides. **2012**, 41, 1193-1195	
1371	ClassAMP: a prediction tool for classification of antimicrobial peptides. **2012**, 9, 1535-8	63
1370	A novel chimeric cell-penetrating peptide with membrane-disruptive properties for efficient endosomal escape. **2012**, 163, 293-303	106

1369	Membrane activities of colicin nuclease domains: analogies with antimicrobial peptides. **2012**, 40, 1517-21	3
1368	Comparative mode of action of novel hybrid peptide CS-1a and its rearranged amphipathic analogue CS-2a. **2012**, 279, 3776-90	6
1367	Effect of pepsin-treated bovine and goat caseinomacropeptide on Escherichia coli and Lactobacillus rhamnosus in acidic conditions. **2012**, 95, 1-8	19
1366	Influence of specific amino acid side-chains on the antimicrobial activity and structure of bovine lactoferrampin. **2012**, 90, 362-77	13
1365	Overview on the recent study of antimicrobial peptides: origins, functions, relative mechanisms and application. **2012**, 37, 207-15	309
1364	Design of a novel antimicrobial peptide activated by virulent proteases. **2012**, 80, 725-33	5
1363	Cationic amphiphilic alpha-helical peptides for the treatment of carbapenem-resistant Acinetobacter baumannii infection. **2012**, 33, 8841-7	28
1362	Next generation of antimicrobial peptides as molecular targeted medicines. **2012**, 114, 365-70	52
1361	Molecular driving forces defining lipid positions around aquaporin-0. **2012**, 109, 9887-92	54
1360	Antimicrobial Peptides for Detection and Diagnostic Assays. **2012**, 85-104	4
1359	Cyclotides insert into lipid bilayers to form membrane pores and destabilize the membrane through hydrophobic and phosphoethanolamine-specific interactions. **2012**, 287, 43884-98	45
1358	μ-Calpain conversion of antiapoptotic Bfl-1 (BCL2A1) into a prodeath factor reveals two distinct alpha-helices inducing mitochondria-mediated apoptosis. **2012**, 7, e38620	16
1357	Therapeutic antimicrobial peptides may compromise natural immunity. **2012**, 8, 416-8	81
1356	Mode of action of cationic antimicrobial peptides defines the tethering position and the efficacy of biocidal surfaces. **2012**, 23, 66-74	50
1355	Structural and functional characterization of mycobactericidal ubiquitin-derived peptides in model and bacterial membranes. **2012**, 51, 9922-9	18
1354	Inhibitors targeting on cell wall biosynthesis pathway of MRSA. **2012**, 8, 2828-38	9
1353	Tuning the activity of mitochondria-penetrating peptides for delivery or disruption. **2012**, 13, 476-85	42
1352	Autophosphorylation activation and inhibition by curcumin of the epidermal growth factor receptor reconstituted in liposomes. **2012**, 25, 623-9	8

1351	Molecular characterization and expression of a novel big defensin (Sb-BDef1) from ark shell, Scapharca broughtonii. **2012**, 33, 1167-73	16
1350	The association between vitamin D levels and recurrent group A streptococcal tonsillopharyngitis in adults. **2012**, 16, e735-8	21
1349	Antimicrobial activity of human islet amyloid polypeptides: an insight into amyloid peptides' connection with antimicrobial peptides. **2012**, 393, 641-6	20
1348	Identification of a histone derived, putative antimicrobial peptide Himanturin from round whip ray Himantura pastinacoides and its phylogenetic significance. **2012**, 2, 120-4	16
1347	Phospholamban and its phosphorylated form require non-physiological transmembrane potentials to translocate ions. **2012**, 8, 3881	8
1346	The study of single anticancer peptides interacting with HeLa cell membranes by single molecule force spectroscopy. **2012**, 4, 1283-6	18
1345	From a marine neuropeptide to antimicrobial pseudopeptides containing aza-β(3)-amino acids: structure and activity. **2012**, 55, 2025-34	28
1344	Molecular cloning and functional characterization of novel antimicrobial peptides from the skin of brown frog, Rana zhenhaiensis. **2012**, 29, 553-8	4
1343	Membrane disrupting antimicrobial peptide dendrimers with multiple amino termini. **2012**, 3, 86-89	38
1342	Using liquid crystals to report molecular interactions between cationic antimicrobial peptides and lipid membranes. **2012**, 137, 567-70	47
1341	Amphipathic antibacterial agents using cationic methacrylic polymers with natural rosin as pendant group. **2012**, 2, 10275	78
1340	The antimicrobial peptide aurein 1.2 disrupts model membranes via the carpet mechanism. **2012**, 14, 15739-51	116
1339	Molecular response and cooperative behavior during the interactions of melittin with a membrane: dissipative quartz crystal microbalance experiments and simulations. **2012**, 116, 9432-8	34
1338	²H solid-state nuclear magnetic resonance investigation of whole Escherichia coli interacting with antimicrobial peptide MSI-78. **2012**, 51, 118-25	27
1337	Free energy difference in indolicidin attraction to eukaryotic and prokaryotic model cell membranes. **2012**, 116, 3387-96	14
1336	Nonintercalating nanosubstrates create asymmetry between bilayer leaflets. **2012**, 28, 2842-8	10
1335	Single vesicle analysis reveals nanoscale membrane curvature selective pore formation in lipid membranes by an antiviral α-helical peptide. **2012**, 12, 5719-25	50
1334	Cationic spacer arm design strategy for control of antimicrobial activity and conformation of amphiphilic methacrylate random copolymers. **2012**, 13, 1632-41	142

1333	Impact of functional satellite groups on the antimicrobial activity and hemocompatibility of telechelic poly(2-methyloxazoline)s. **2012**, 13, 165-72	46
1332	Slow insertion kinetics during interaction of a model antimicrobial peptide with unilamellar phospholipid vesicles. **2012**, 28, 2217-24	20
1331	Investigation of model membrane disruption mechanism by melittin using pulse electron paramagnetic resonance spectroscopy and cryogenic transmission electron microscopy. **2012**, 116, 179-88	32
1330	Thermodynamics of antimicrobial peptide JCpep8 binding to living Staphylococcus aureus as a pseudo-stationary phase in capillary electrochromatography and consequences for antimicrobial activity. **2012**, 60, 4535-41	11
1329	Protein Structure. **2012**,	1
1328	Toxicity study of antimicrobial peptides from wild bee venom and their analogs toward mammalian normal and cancer cells. **2012**, 33, 18-26	64
1327	Characterization of BmKbpp, a multifunctional peptide from the Chinese scorpion Mesobuthus martensii Karsch: gaining insight into a new mechanism for the functional diversification of scorpion venom peptides. **2012**, 33, 44-51	46
1326	Enhanced antifungal and insect □amylase inhibitory activities of Alpha-TvD1, a peptide variant of Tephrosia villosa defensin (TvD1) generated through in vitro mutagenesis. **2012**, 33, 220-9	16
1325	Purification and characterization of a novel antimicrobial peptide from Brevibacillus laterosporus strain A60. **2012**, 33, 206-11	27
1324	Effect of a novel antimicrobial peptide chrysophsin-1 on oral pathogens and Streptococcus mutans biofilms. **2012**, 33, 212-9	63
1323	Design and characterization of novel hybrid antimicrobial peptides based on cecropin A, LL-37 and magainin II. **2012**, 33, 197-205	63
1322	Hainanenins: a novel family of antimicrobial peptides with strong activity from Hainan cascade-frog, Amolops hainanensis. **2012**, 33, 251-7	15
1321	Gene cloning and functional characterization of four novel antimicrobial-like peptides from scorpions of the family Vaejovidae. **2012**, 34, 290-5	52
1320	Two novel antimicrobial peptides purified from the symbiotic bacteria Xenorhabdus budapestensis NMC-10. **2012**, 35, 253-60	19
1319	Role of lipids in the interaction of antimicrobial peptides with membranes. **2012**, 51, 149-77	443
1318	Potamotrygon cf. henlei stingray mucus: biochemical features of a novel antimicrobial protein. **2012**, 60, 821-9	16
1317	Pore-forming bacterial toxins and antimicrobial peptides as modulators of ADAM function. **2012**, 201, 419-26	10
1316	Use of unnatural amino acids to probe structure-activity relationships and mode-of-action of antimicrobial peptides. **2012**, 794, 169-83	4

1315	Api88 is a novel antibacterial designer peptide to treat systemic infections with multidrug-resistant Gram-negative pathogens. **2012**, 7, 1281-91	83
1314	Colistin: an update on the antibiotic of the 21st century. **2012**, 10, 917-34	322
1313	Functional analysis of two lebocin-related proteins from Manduca sexta. **2012**, 42, 231-9	26
1312	Molecular weight and pH effects of aminoethyl modified chitosan on antibacterial activity in vitro. **2012**, 50, 918-24	41
1311	Characterization of dual effects induced by antimicrobial peptides: regulated cell death or membrane disruption. **2012**, 1820, 1062-72	78
1310	Characterization of a potent antimicrobial lipopeptide via coarse-grained molecular dynamics. **2012** , 1818, 212-8	38
1309	Charge distribution and imperfect amphipathicity affect pore formation by antimicrobial peptides. **2012**, 1818, 1274-83	87
1308	Comparative molecular dynamics simulations of the antimicrobial peptide CM15 in model lipid bilayers. **2012**, 1818, 1402-9	63
1307	Lipid shape is a key factor for membrane interactions of amphipathic helical peptides. **2012**, 1818, 1764-76	76
1306	Structure, activity and interactions of the cysteine deleted analog of tachyplesin-1 with lipopolysaccharide micelle: Mechanistic insights into outer-membrane permeabilization and endotoxin neutralization. **2012**, 1818, 1613-24	42
1305	Sensitivity of Saccharomyces cerevisiae to the cell-penetrating antifungal peptide PAF26 correlates with endogenous nitric oxide (NO) production. **2012**, 417, 56-61	22
1304	Antitumor effects and cell selectivity of temporin-1CEa, an antimicrobial peptide from the skin secretions of the Chinese brown frog (Rana chensinensis). **2012**, 94, 434-41	51
1303	Host defense peptides in skin secretions of Odorrana tiannanensis: Proof for other survival strategy of the frog than merely anti-microbial. **2012**, 94, 649-55	15
1302	Functional characterization of a synthetic hydrophilic antifungal peptide derived from the marine snail Cenchritis muricatus. **2012**, 94, 968-74	38
1301	A comparative study of antimicrobial properties of crustinPm1 and crustinPm7 from the black tiger shrimp Penaeus monodon. **2012**, 36, 208-15	44
1300	Recombinant medaka (Oryzias melastigmus) pro-hepcidin: Multifunctional characterization. **2012**, 161, 140-7	42
1299	Headgroup specificity for the interaction of the antimicrobial peptide tritrpticin with phospholipid Langmuir monolayers. **2012**, 100, 95-102	28
1298	A new anti-lipopolysaccharide factor isoform (PtALF4) from the swimming crab Portunus trituberculatus exhibited structural and functional diversity of ALFs. **2012**, 32, 724-31	32

1297	Molecular cloning, expression pattern and antimicrobial activity of a new isoform of anti-lipopolysaccharide factor from the swimming crab Portunus trituberculatus. **2012**, 33, 85-91	27
1296	Ab initio design of potent anti-MRSA peptides based on database filtering technology. **2012**, 134, 12426-9	113
1295	Live-cell imaging and analysis shed light on the complexity and dynamics of antimicrobial Peptide action. **2012**, 3, 248	8
1294	Antimicrobial and antifouling hydrogels formed in situ from polycarbonate and poly(ethylene glycol) via Michael addition. **2012**, 24, 6484-9	198
1293	Synthesis and characterization of the 47-residue heterodimeric antimicrobial peptide distinctin, featuring directed disulfide bridge formation. **2012**, 98, 479-84	5
1292	Innate immune properties of selected human neuropeptides against Moraxella catarrhalis and nontypeable Haemophilus influenzae. **2012**, 13, 24	16
1291	Potential novel therapeutic strategies in cystic fibrosis: antimicrobial and anti-biofilm activity of natural and designed α-helical peptides against Staphylococcus aureus, Pseudomonas aeruginosa, and Stenotrophomonas maltophilia. **2012**, 12, 145	62
1290	Therapeutic use of a cationic antimicrobial peptide from the spider Acanthoscurria gomesiana in the control of experimental candidiasis. **2012**, 12, 28	25
1289	Human β-defensin (DEFA) gene expression helps to characterise benign and malignant salivary gland tumours. **2012**, 12, 465	13
1288	Cationic antimicrobial peptides disrupt the Streptococcus pyogenes ExPortal. **2012**, 85, 1119-32	29
1287	Designing antimicrobial peptides: form follows function. **2011**, 11, 37-51	1190
1286	Recent development of small antimicrobial peptidomimetics. **2012**, 4, 1853-62	35
1285	Oncocin derivative Onc72 is highly active against Escherichia coli in a systemic septicaemia infection mouse model. **2012**, 67, 2445-51	29
1284	Cyclodextrin-scaffolded alamethicin with remarkably efficient membrane permeabilizing properties and membrane current conductance. **2012**, 116, 7652-9	23
1283	Cathelicidins: family of antimicrobial peptides. A review. **2012**, 39, 10957-70	280
1282	Direct visualization of bactericidal action of cationic conjugated polyelectrolytes and oligomers. **2012**, 28, 65-70	76
1281	Mesh phases in tetramethylammonium perfluorodecanoate–water ternary systems. **2012**, 8, 11255	3
1280	Identification, synthesis and characterization of a novel antimicrobial peptide HKPLP derived from Hippocampus kuda Bleeker. **2012**, 65, 117-121	19

1279	The Role of Plant Peptides in Symbiotic Interactions. **2012**, 135-162	
1278	New bactericidal surgical suture coating. **2012**, 28, 12134-9	64
1277	What determines the efficiency of N(2)-fixing Rhizobium-legume symbioses?. **2012**, 60, 325-89	96
1276	YADAMP: yet another database of antimicrobial peptides. **2012**, 39, 346-51	111
1275	Selectivity for and destruction of Salmonella typhimurium via a membrane damage mechanism of a cell-penetrating peptide ppTG20 analogue. **2012**, 40, 337-43	36
1274	Imaging the membrane lytic activity of bioactive peptide latarcin 2a. **2012**, 1818, 3072-80	20
1273	Main-chain imidazolium oligomer material as a selective biomimetic antimicrobial agent. **2012**, 33, 8625-31	57
1272	New horizons for host defense peptides and lantibiotics. **2012**, 12, 545-50	38
1271	Effect of the anti-lipopolysaccharide factor isoform 3 (ALFPm3) from Penaeus monodon on Vibrio harveyi cells. **2012**, 38, 554-60	22
1270	StCT2, a new antibacterial peptide characterized from the venom of the scorpion Scorpiops tibetanus. **2012**, 36, 213-20	41
1269	Antimicrobial peptide control of pathogenic microorganisms of the oral cavity: a review of the literature. **2012**, 36, 315-21	69
1268	Purification and characterization of Hb 98-114: a novel hemoglobin-derived antimicrobial peptide from the midgut of Rhipicephalus (Boophilus) microplus. **2012**, 37, 120-7	17
1267	Characterization of cell membrane parameters of clinical isolates of Staphylococcus aureus with varied susceptibility to alpha-melanocyte stimulating hormone. **2012**, 37, 334-9	18
1266	Antimicrobial activity of recombinant Pg-AMP1, a glycine-rich peptide from guava seeds. **2012**, 37, 294-300	34
1265	Antimicrobial activity of human □-defensin 4 analogs: insights into the role of disulfide linkages in modulating activity. **2012**, 38, 255-65	14
1264	Expression systems for heterologous production of antimicrobial peptides. **2012**, 38, 446-56	102
1263	Interaction network of antimicrobial peptides of Arabidopsis thaliana, based on high-throughput yeast two-hybrid screening. **2012**, 58, 245-52	9
1262	Antibacterial activity of class IIa bacteriocin Cbn BM1 depends on the physiological state of the target bacteria. **2012**, 163, 323-31	15

1261	Antibacterial action of new antibacterial peptides, Nod1 and Nod2, isolated from Nordotis discus discus. **2012**, 60, 6875-81	9
1260	Membrane activity of antimicrobial phenylene ethynylene based polymers and oligomers. **2012**, 8, 8547	57
1259	Current and Forthcoming Applications of ROMP Polymers Biorelated Polymers. **2012**, 695-717	3
1258	Insight into peptide self-assembly from anisotropic rotational diffusion derived from 13C NMR relaxation. **2012**, 3, 1284	9
1257	Antimicrobial Peptides: Multifunctional Drugs for Different Applications. **2012**, 4, 539-560	80
1256	Peptide self-assembly on cell membranes to induce cell lysis. **2012**, 13, 3327-33	35
1255	Biopolymer-Based Nanomaterials. **2012**, 59, 91-129	7
1254	Enhanced leishmanicidal activity of cryptopeptide chimeras from the active N1 domain of bovine lactoferrin. **2012**, 43, 2265-77	19
1253	Bactericidal activity of Musca domestica cecropin (Mdc) on multidrug-resistant clinical isolate of Escherichia coli. **2012**, 95, 939-45	27
1252	Trivalent ultrashort lipopeptides are potent pH dependent antifungal agents. **2012**, 55, 1296-302	24
1251	Plant Signaling Peptides. **2012**,	0
1250	De novo cyclic pseudopeptides containing aza-B-amino acids exhibiting antimicrobial activities. **2012**, 55, 10885-95	15
1249	Molecular insights into bacteroid development duringRhizobium-legume symbiosis. **2012**, n/a-n/a	2
1248	Development of bioactive peptides from fish proteins and their health promoting ability. **2012**, 65, 235-48	25
1247	Application of unnatural amino acids to the de novo design of selective antibiotic peptides. **2012**, 794, 135-67	10
1246	Unnatural Amino Acids. **2012**,	34
1245	Molecular view of the role of fusion peptides in promoting positive membrane curvature. **2012**, 134, 1543-52	67
1244	Spectroscopic and computational study of melittin, cecropin A, and the hybrid peptide CM15. **2012**, 116, 10600-8	31

1243	The antimicrobial peptide hLF1-11 drives monocyte-dendritic cell differentiation toward dendritic cells that promote antifungal responses and enhance Th17 polarization. **2012**, 4, 284-92	24
1242	Robust antimicrobial compounds and polymers derived from natural resin acids. **2012**, 48, 916-8	131
1241	Antimicrobial lipopeptaibol trichogin GA IV: role of the three Aib residues on conformation and bioactivity. **2012**, 43, 1761-77	24
1240	Adsorption of antimicrobial indolicidin-derived peptides on hydrophobic surfaces. **2012**, 28, 10446-52	12
1239	Transcriptomics of in vitro immune-stimulated hemocytes from the Manila clam Ruditapes philippinarum using high-throughput sequencing. **2012**, 7, e35009	88
1238	CS-AMPPred: an updated SVM model for antimicrobial activity prediction in cysteine-stabilized peptides. **2012**, 7, e51444	60
1237	Prediction and Rational Design of Antimicrobial Peptides. **2012**,	7
1236	Synthesis and antibacterial activities of amphiphilic neomycin B-based bilipid conjugates and fluorinated neomycin B-based lipids. **2012**, 17, 9129-41	25
1235	The Antimicrobial Defense of the Pacific Oyster, Crassostrea gigas. How Diversity may Compensate for Scarcity in the Regulation of Resident/Pathogenic Microflora. **2012**, 3, 160	64
1234	SapF-mediated heme-iron utilization enhances persistence and coordinates biofilm architecture of Haemophilus. **2012**, 2, 42	27
1233	The Design of Bacteria Strain Selective Antimicrobial Peptides Based on the Incorporation of Unnatural Amino Acids. **2012**,	1
1232	Predicting the Activity of Antimicrobial Peptides with Amino Acid Topological Information. **2012**, 9, 32-44	
1231	Activity of Naturally Derived Antimicrobial Peptides against Filamentous Fungi Relevant for Agriculture. **2012**, 1, 211	3
1230	Enhanced Patch-Clamp Technique to Study Antimicrobial Peptides and Viroporins, Inserted in a Cell Plasma Membrane with Fully Inactivated Endogenous Conductances. **2012**,	2
1229	Design of a novel tryptophan-rich membrane-active antimicrobial peptide from the membrane-proximal region of the HIV glycoprotein, gp41. **2012**, 8, 1172-84	19
1228	Multivalent display of the antimicrobial peptides BP100 and BP143. **2012**, 8, 2106-17	7
1227	Cationic Peptide Interactions with Biological Macromolecules. **2012**,	7
1226	Modulating the activity of short arginine-tryptophan containing antibacterial peptides with N-terminal metallocenoyl groups. **2012**, 8, 1753-64	52

1225	Antimicrobial peptides and nitric oxide production by neutrophils from periodontitis subjects. **2012**, 45, 1017-24	8
1224	Antimicrobial activity of peptides derived from human amyloid precursor protein. **2012**, 18, 183-91	16
1223	Surface immobilization chemistry influences peptide-based detection of lipopolysaccharide and lipoteichoic acid. **2012**, 18, 366-72	15
1222	Neutrophil function: from mechanisms to disease. **2012**, 30, 459-89	1023
1221	Dermatophytic defensin with antiinfective potential. **2012**, 109, 8495-500	56
1220	Antimicrobial Peptides as a Promising Alternative for Plant Disease Protection. **2012**, 263-294	14
1219	Antifungal Plant Defensins: Structure-Activity Relationships, Modes of Action, and Biotech Applications. **2012**, 317-336	5
1218	Stochastic self-assembly of incommensurate clusters. **2012**, 136, 084110	29
1217	Strategies for Controlling Plant Diseases and Mycotoxin Contamination Using Antimicrobial Synthetic Peptides. **2012**, 295-315	2
1216	Strand length-dependent antimicrobial activity and membrane-active mechanism of arginine- and valine-rich hairpin-like antimicrobial peptides. **2012**, 56, 2994-3003	87
1215	Inhibition of bacterial biofilm formation and swarming motility by a small synthetic cationic peptide. **2012**, 56, 2696-704	284
1214	Role of Hydrophobic Forces and Backbone Hydrogen Bonding on Helical Stability of Peptide Encapsulated Into Single Wall Carbon Nanotubes. **2012**, 9, 783-788	2
1213	Dimerization of plant defensin NaD1 enhances its antifungal activity. **2012**, 287, 19961-72	58
1212	Poly(ethylene imine)s as antimicrobial agents with selective activity. **2012**, 12, 1279-89	146
1211	Solid-Phase Synthesis of 5-Arylhistidine-Containing Peptides with Antimicrobial Activity Through a Microwave-Assisted SuzukiMiyaura Cross-Coupling. **2012**, 2012, 4321-4332	15
1210	Antimicrobial peptide incorporated poly(2-hydroxyethyl methacrylate) hydrogels for the prevention of Staphylococcus epidermidis-associated biomaterial infections. **2012**, 100, 1803-14	45
1209	Drug release and bone growth studies of antimicrobial peptide-loaded calcium phosphate coating on titanium. **2012**, 100, 1344-52	72
1208	Antifungal Peptides: Exploiting Non-Lytic Mechanisms and Cell Penetration Properties. **2012**, 337-357	2

1207	Antimicrobial Peptides for Plant Disease Control. From Discovery to Application. **2012**, 235-261	17
1206	Effects of antimicrobial peptides on methanogenic archaea. **2012**, 56, 4123-30	26
1205	Cationic peptidopolysaccharides show excellent broad-spectrum antimicrobial activities and high selectivity. **2012**, 24, 4130-7	193
1204	Interaction of antimicrobial peptides, BP100 and pepR, with model membrane systems as explored by Brownian dynamics simulations on a coarse-grained model. **2012**, 98, 294-312	5
1203	Antimicrobial poly(methacrylamide) derivatives prepared via aqueous RAFT polymerization exhibit biocidal efficiency dependent upon cation structure. **2012**, 13, 2472-82	51
1202	Identification and Characterization of Novel Antibacterial Peptides from Skin Secretions of Euphlyctis cyanophlyctis. **2012**, 18, 107-115	10
1201	Multicomponent synthesis of acylated short peptoids with antifungal activity against plant pathogens. **2012**, 16, 113-9	13
1200	Cloning and expression analysis of an anti-lipopolysaccharide factor from giant freshwater prawn, Macrobrachium rosenbergii. **2012**, 39, 7673-80	16
1199	Optimization of the Antibacterial Activity of Half-Fin Anchovy (Setipinna taty) Hydrolysates. **2012**, 5, 1979-1989	36
1198	Comparison of in vitro antibacterial activities of two cationic peptides CM15 and CM11 against five pathogenic bacteria: Pseudomonas aeruginosa, Staphylococcus aureus, Vibrio cholerae, Acinetobacter baumannii, and Escherichia coli. **2012**, 4, 133-9	24
1197	Screening of antimicrobials from Caribbean sea animals and isolation of bactericidal proteins from the littoral mollusk Cenchritis muricatus. **2012**, 64, 501-5	11
1196	Bi-functional peptides with both trypsin-inhibitory and antimicrobial activities are frequent defensive molecules in Ranidae amphibian skins. **2012**, 43, 309-16	15
1195	Cationic antimicrobial peptides in clinical development, with special focus on thanatin and heliomicin. **2012**, 31, 881-8	36
1194	Antibacterial and cell-adhesive polypeptide and poly(ethylene glycol) hydrogel as a potential scaffold for wound healing. **2012**, 8, 41-50	129
1193	Antibacterial surfaces developed from bio-inspired approaches. **2012**, 8, 1670-84	266
1192	Colistin: new lessons on an old antibiotic. **2012**, 18, 18-29	162
1191	Resistance to antimicrobial peptides in Gram-negative bacteria. **2012**, 330, 81-9	90
1190	Defensins in human innate immunity. **2012**, 245, 84-112	274

1189	Effect of head group and curvature on binding of the antimicrobial peptide tritrpticin to lipid membranes. **2012**, 165, 365-73	31
1188	The membrane interactions of antimicrobial peptides revealed by solid-state NMR spectroscopy. **2012**, 165, 282-301	99
1187	Evaluation of Magainin I interactions with lipid membranes: an optical and electrochemical study. **2012**, 165, 537-44	20
1186	The antibacterial activity of 4,4'-bipyridinium amphiphiles with conventional, bicephalic and gemini architectures. **2012**, 22, 4055-8	38
1185	Antibacterial activity of dentine and pulp extracellular matrix extracts. **2012**, 45, 749-55	17
1184	Recombinant production of cathelicidin-derived antimicrobial peptides in Escherichia coli using an inducible autocleaving enzyme tag. **2012**, 29, 352-8	7
1183	Effects of the phosphatidylglycerol head group on the binding of short dermcidin-derived peptides to the phospholipid membrane surface. **2012**, 53, 1078-1081	1
1182	Concentration-dependent mechanisms of cell penetration and killing by the de novo designed antifungal hexapeptide PAF26. **2012**, 85, 89-106	48
1181	Solubilized gramicidin A as potential systemic antibiotics. **2012**, 13, 51-5	46
1180	A comparison of linear and cyclic peptoid oligomers as potent antimicrobial agents. **2012**, 7, 114-22	102
1179	The spin label amino acid TOAC and its uses in studies of peptides: chemical, physicochemical, spectroscopic, and conformational aspects. **2012**, 4, 45-66	54
1178	[Revision implants of the future: trends and new developments]. **2012**, 41, 58-65	0
1177	Peptide structure prediction using distributed volunteer computing networks. **2012**, 50, 421-428	4
1176	Capsicum annuum L. trypsin inhibitor as a template scaffold for new drug development against pathogenic yeast. **2012**, 101, 657-70	20
1175	Defense gene expression is potentiated in transgenic barley expressing antifungal peptide Metchnikowin throughout powdery mildew challenge. **2012**, 125, 115-24	35
1174	On the selectivity and efficacy of defense peptides with respect to cancer cells. **2013**, 33, 190-234	109
1173	Proteolytic Activity of the MMGP1 Antifungal Peptide Derived from Marine Metagenome. **2013**, 19, 331-336	1
1172	The Presence of Arginine in the Pro-Arg-Pro Motif Augments the Lethality of Proline Rich Antimicrobial Peptides of Insect Source. **2013**, 19, 323-330	3

1171	Atomistic simulations of an antimicrobial molecule interacting with a model bacterial membrane. **2013**, 132, 1	5
1170	Purification and characterization of a tachykinin-like peptide from skin secretions of the tree frog, Theloderma kwangsiensis. **2013**, 30, 529-33	4
1169	Cationic antimicrobial polymers and their assemblies. **2013**, 14, 9906-46	337
1168	Antimicrobial Polymers: Molecular Design as Synthetic Mimics of Host-Defense Peptides. **2013**, 319-330	15
1167	The application of DOSY NMR and molecular dynamics simulations to explore the mechanism(s) of micelle binding of antimicrobial peptides containing unnatural amino acids. **2013**, 99, 548-61	13
1166	Molecular design, structures, and activity of antimicrobial peptide-mimetic polymers. **2013**, 13, 1285-99	94
1165	The attack of the phytopathogens and the trumpet solo: Identification of a novel plant antifungal peptide with distinct fold and disulfide bond pattern. **2013**, 95, 1939-48	24
1164	Cationic host defence peptides: potential as antiviral therapeutics. **2013**, 27, 479-93	89
1163	Avian host defense peptides. **2013**, 41, 352-69	124
1162	Polyoxometalate macroion induced phase and morphology instability of lipid membrane. **2013**, 4, 3818	29
1161	Meningococcal resistance to antimicrobial peptides is mediated by bacterial adhesion and host cell RhoA and Cdc42 signalling. **2013**, 15, 1938-54	6
1160	On the role of NMR spectroscopy for characterization of antimicrobial peptides. **2013**, 1063, 159-80	26
1159	Simulating the mechanism of antimicrobial lipopeptides with all-atom molecular dynamics. **2013**, 52, 5604-10	32
1158	Could vitamin d have a potential anti-inflammatory and anti-infective role in bronchiectasis?. **2013**, 15, 148-57	15
1157	Study of Proteins and Peptides at Interfaces by Molecular Dynamics Simulation Techniques. **2013**, 291-313	1
1156	Physiologically-relevant modes of membrane interactions by the human antimicrobial peptide, LL-37, revealed by SFG experiments. **2013**, 3, 1854	42
1155	Thin Films and Coatings in Biology. **2013**,	2
1154	Antimicrobial peptide isolated from ovalbumin hydrolysate by immobilized liposome-binding extraction. **2013**, 237, 591-600	14

1153	Electrostatics and flexibility drive membrane recognition and early penetration by the antimicrobial peptide dendrimer bH1. **2013**, 49, 8821-3	26
1152	Targeting intracellular pathogenic bacteria with unnatural proline-rich peptides: coupling antibacterial activity with macrophage penetration. **2013**, 52, 9664-7	51
1151	Design and synthesis of amphiphilic xanthone-based, membrane-targeting antimicrobials with improved membrane selectivity. **2013**, 56, 2359-73	70
1150	Polymers with tunable side-chain amphiphilicity as non-hemolytic antibacterial agents. **2013**, 49, 9389-91	87
1149	Comparative surface antimicrobial properties of synthetic biocides and novel human apolipoprotein E derived antimicrobial peptides. **2013**, 34, 5453-64	49
1148	Influence of endophytic strains of the bacterium Bacillus subtilis on cell number in monocultures of green algae. **2013**, 60, 571-575	
1147	Synergistic effect and antibiofilm activity between the antimicrobial peptide coprisin and conventional antibiotics against opportunistic bacteria. **2013**, 66, 56-60	35
1146	Antimicrobial Peptides and Innate Immunity. **2013**,	8
1145	Mechanism of action of novel synthetic dodecapeptides against Candida albicans. **2013**, 1830, 5193-203	38
1144	Combating multidrug-resistant bacteria: current strategies for the discovery of novel antibacterials. **2013**, 52, 10706-33	293
1143	Influenza virus A M2 protein generates negative Gaussian membrane curvature necessary for budding and scission. **2013**, 135, 13710-9	80
1142	A review of the biomaterials technologies for infection-resistant surfaces. **2013**, 34, 8533-54	914
1141	Cationic membrane peptides: atomic-level insight of structure-activity relationships from solid-state NMR. **2013**, 44, 821-33	48
1140	Effect of repetitive lysine-tryptophan motifs on the bactericidal activity of antimicrobial peptides. **2013**, 44, 645-60	53
1139	Peptide interactions with bacterial lipopolysaccharides. **2013**, 18, 381-392	35
1138	Comparison of antifungal activities of scallop shell, oyster shell and their pyrolyzed products. **2013**, 39, 83-90	31
1137	Real-time attack of LL-37 on single Bacillus subtilis cells. **2013**, 1828, 1511-20	60
1136	Understanding the mechanism of action of cell-penetrating antifungal peptides using the rationally designed hexapeptide PAF26 as a model. **2013**, 26, 146-155	41

1135	Enhancing antimicrobial activity of mastoparan-B by amino acid substitutions. **2013**, 16, 349-355	4
1134	Flexibility is a mechanical determinant of antimicrobial activity for amphipathic cationic α-helical antimicrobial peptides. **2013**, 1828, 2479-86	35
1133	Les peptides antimicrobiens cationiques : vers un renforcement de l'arsenal thérapeutique anti-infectieux ?. **2013**, 15, 111-118	
1132	Development of a novel multiplex lateral flow assay using an antimicrobial peptide for the detection of Shiga toxin-producing Escherichia coli. **2013**, 93, 251-6	36
1131	Genes involved in protein glycosylation determine the activity and cell internalization of the antifungal peptide PAF26 in Saccharomyces cerevisiae. **2013**, 58-59, 105-15	12
1130	Bioconjugated nanoparticles for attachment and penetration into pathogenic bacteria. **2013**, 34, 10328-37	85
1129	Influence of arenicin on phase transitions and ordering of lipids in 2D model membranes. **2013**, 29, 12203-11	11
1128	Die Bekämpfung multiresistenter Bakterien: aktuelle Strategien zur Entdeckung neuer Antibiotika. **2013**, 125, 10904-10932	59
1127	Evidence for phenylalanine zipper-mediated dimerization in the X-ray crystal structure of a magainin 2 analogue. **2013**, 135, 15738-15741	24
1126	Self-assembly to function: design, synthesis, and broad spectrum antimicrobial properties of short hybrid E-vinylogous lipopeptides. **2013**, 56, 8468-74	29
1125	Barrier Functions of Oral Mucosa. **2013**, 113-144	
1124	Endolytic, pH-responsive HPMA-b-(L-Glu) copolymers synthesized via sequential aqueous RAFT and ring-opening polymerizations. **2013**, 14, 3793-9	12
1123	Antimicrobial peptides and induced membrane curvature: geometry, coordination chemistry, and molecular engineering. **2013**, 17, 151-163	125
1122	Curvature engineering: positive membrane curvature induced by epsin N-terminal peptide boosts internalization of octaarginine. **2013**, 8, 1894-9	38
1121	Interaction between a cationic surfactant-like peptide and lipid vesicles and its relationship to antimicrobial activity. **2013**, 29, 14246-53	45
1120	Characterization of a proteolytically stable multifunctional host defense peptidomimetic. **2013**, 20, 1286-95	35
1119	Biofunctional Coatings for Dental Implants. **2013**, 105-143	7
1118	Dynamic turn conformation of a short tryptophan-rich cationic antimicrobial peptide and its interaction with phospholipid membranes. **2013**, 117, 14697-708	34

1117	Supramolecular high-aspect ratio assemblies with strong antifungal activity. **2013**, 4, 2861	60
1116	Engineering antimicrobial peptides with improved antimicrobial and hemolytic activities. **2013**, 53, 3280-96	66
1115	Interplay among subunit identity, subunit proportion, chain length, and stereochemistry in the activity profile of sequence-random peptide mixtures. **2013**, 135, 11748-51	34
1114	Host Defense Peptides: Immune Modulation and Antimicrobial Activity In Vivo. **2013**, 321-358	3
1113	Investigation of the effect of Mycobacterium bovis infection on bovine neutrophils functions. **2013**, 93, 675-87	11
1112	Molecular insights into bacteroid development during Rhizobium-legume symbiosis. **2013**, 37, 364-83	77
1111	Antimicrobial effects of coprisin on wounds infected with Staphylococcus aureus in rats. **2013**, 21, 876-82	7
1110	Detection of secreted antimicrobial peptides isolated from cell-free culture supernatant of Paenibacillus alvei AN5. **2013**, 40, 571-9	15
1109	Mechanisms of intrinsic resistance to antimicrobial peptides of Edwardsiella ictaluri and its influence on fish gut inflammation and virulence. **2013**, 159, 1471-1486	68
1108	Nutrition and the Upper Respiratory Tract. **2013**, 183-190	
1107	Controlled covalent surface immobilisation of proteins and peptides using plasma methods. **2013**, 233, 169-177	78
1106	A de novo-designed antimicrobial peptide with activity against multiresistant Staphylococcus aureus acting on RsbW kinase. **2013**, 27, 4476-88	16
1105	Designing mimics of membrane active proteins. **2013**, 46, 2977-87	99
1104	Development of toroidal nanostructures by self-assembly: rational designs and applications. **2013**, 46, 2888-97	124
1103	Detection of antibacterial activity in an enzymatic hydrolysate fraction obtained from processing of Atlantic rock crab (Cancer irroratus) by-products. **2013**, 1, 149-157	22
1102	The human antimicrobial peptide LL-37 and its fragments possess both antimicrobial and antibiofilm activities against multidrug-resistant Acinetobacter baumannii. **2013**, 49, 131-7	84
1101	The accuracy of the CHARMM22/CMAP and AMBER ff99SB force fields for modelling the antimicrobial peptide cecropin P1. **2013**, 39, 922-936	3
1100	Antimicrobial activity and mechanism of action of a novel cationic α-helical octadecapeptide derived from heat shock protein 70 of rice. **2013**, 48, 147-55	14

1099	Purification and antibacterial activity of recombinant warnericin RK expressed in Escherichia coli. **2013**, 97, 5401-12	7
1098	Antibacterial high-genus polymer vesicle as an "armed" drug carrier. **2013**, 1, 5496-5504	39
1097	Oral inflammation, a role for antimicrobial peptide modulation of cytokine and chemokine responses. **2013**, 11, 1097-113	16
1096	The unstructured domain of colicin N kills Escherichia coli. **2013**, 89, 84-95	13
1095	Max Bergmann lecture protein epitope mimetics in the age of structural vaccinology. **2013**, 19, 127-40	26
1094	The synthetic cathelicidin HHC-10 inhibits Mycobacterium bovis BCG in vitro and in C57BL/6 mice. **2013**, 19, 124-9	8
1093	Interaction of Piscidin-1 with zwitterionic versus anionic membranes: a comparative molecular dynamics study. **2013**, 31, 1393-403	11
1092	Novel apidaecin 1b analogs with superior serum stabilities for treatment of infections by gram-negative pathogens. **2013**, 57, 402-9	64
1091	The cyclic cystine ladder in □defensins is important for structure and stability, but not antibacterial activity. **2013**, 288, 10830-40	58
1090	Comparative antibacterial mode of action of purified alcalase- and tryptic-hydrolyzed palm kernel cake proteins on the food-borne pathogen Bacillus cereus. **2013**, 31, 53-58	9
1089	The defensin-lipid interaction: insights on the binding states of the human antimicrobial peptide HNP-1 to model bacterial membranes. **2013**, 1828, 758-64	12
1088	Two hits are better than one: membrane-active and DNA binding-related double-action mechanism of NK-18, a novel antimicrobial peptide derived from mammalian NK-lysin. **2013**, 57, 220-8	84
1087	Anti-infective properties of bacteriocins: an update. **2013**, 70, 2947-67	92
1086	Membrane-perturbing effect of fatty acids and lysolipids. **2013**, 52, 130-40	80
1085	Production of a de-novo designed antimicrobial peptide in Nicotiana benthamiana. **2013**, 81, 259-72	17
1084	Poly(2-oxazoline)-derived contact biocides: contributions to the understanding of antimicrobial activity. **2013**, 13, 116-25	27
1083	Antibacterial and membrane-damaging activities of □-bungarotoxin B chain. **2013**, 19, 1-8	14
1082	Antimicrobial polymers as synthetic mimics of host-defense peptides. **2013**, 5, 49-66	123

1081	Enhanced antimicrobial activity of novel synthetic peptides derived from vejovine and hadrurin. **2013**, 1830, 3427-36	21
1080	Spinigerin induces apoptotic like cell death in a caspase independent manner in Leishmania donovani. **2013**, 135, 715-25	22
1079	Vesicle deposition and subsequent membrane-melittin interactions on different substrates: a QCM-D experiment. **2013**, 1828, 1918-25	21
1078	In vivo antimicrobial evaluation of an alanine-rich peptide derived from Pleuronectes americanus. **2013**, 42, 144-8	19
1077	The activity of LE10 peptide on biological membranes using molecular dynamics, in vitro and in vivo studies. **2013**, 106, 240-7	6
1076	Molecular cloning, genomic structure and antimicrobial activity of PtALF7, a unique isoform of anti-lipopolysaccharide factor from the swimming crab Portunus trituberculatus. **2013**, 34, 652-9	21
1075	The helical propensity of KLA amphipathic peptides enhances their binding to gel-state lipid membranes. **2013**, 180-181, 10-21	20
1074	New insights into membrane-active action in plasma membrane of fungal hyphae by the lipopeptide antibiotic bacillomycin L. **2013**, 1828, 2230-7	48
1073	A newly identified anti-lipopolysaccharide factor from the swimming crab Portunus trituberculatus with broad spectrum antimicrobial activity. **2013**, 34, 463-70	23
1072	Membrane-dependent conformation, dynamics, and lipid interactions of the fusion peptide of the paramyxovirus PIV5 from solid-state NMR. **2013**, 425, 563-76	35
1071	Targeting Mycobacterium tuberculosis and other microbial pathogens using improved synthetic antibacterial peptides. **2013**, 57, 2295-303	56
1070	wrwyrggrywrw is a single-chain functional analog of the Holliday junction-binding homodimer, (wrwycr)2. **2013**, 40, 112-22	2
1069	Biomolecular engineering of a human beta defensin model for increased salt resistance. **2013**, 95, 128-137	16
1068	BF-30 selectively inhibits melanoma cell proliferation via cytoplasmic membrane permeabilization and DNA-binding in vitro and in B16F10-bearing mice. **2013**, 707, 1-10	38
1067	Structural diversity and mode of action on lipid membranes of three lactoferrin candidacidal peptides. **2013**, 1828, 1329-39	27
1066	Anionic Antimicrobial Peptides. **2013**, 83-113	6
1065	Cationic Antimicrobial Peptides. **2013**, 39-81	7
1064	Staphylococcus aureus virulence factors in evasion from innate immune defenses in human and animal diseases. **2013**, 150, 12-22	144

1063	Models for the Membrane Interactions of Antimicrobial Peptides. **2013**, 145-180	7
1062	Photoinactivation of Gram positive and Gram negative bacteria with the antimicrobial peptide (KLAKLAK)(2) conjugated to the hydrophilic photosensitizer eosin Y. **2013**, 24, 114-23	50
1061	Mechanism of action and initial evaluation of a membrane active all-D-enantiomer antimicrobial peptidomimetic. **2013**, 110, 3477-82	55
1060	Antimicrobial peptide from spider venom inhibits Chlamydia trachomatis infection at an early stage. **2013**, 195, 173-9	12
1059	Perfluoro-tert-butyl-homoserine as a sensitive 19F NMR reporter for peptide-membrane interactions in solution. **2013**, 19, 308-14	22
1058	Melittin creates transient pores in a lipid bilayer: results from computer simulations. **2013**, 117, 5031-42	47
1057	Mechanisms and Significance of Bacterial Resistance to Human Cationic Antimicrobial Peptides. **2013**, 219-254	4
1056	Production and Health Effects of Peptides from Fish Proteins. **2013**, 737-751	
1055	Some 2S albumin from peanut seeds exhibits inhibitory activity against Aspergillus flavus. **2013**, 66, 84-90	8
1054	Activity of antibacterial protein from maggots against Staphylococcus aureus in vitro and in vivo. **2013**, 31, 1159-65	27
1053	Modeling peptide binding to anionic membrane pores. **2013**, 34, 1463-75	15
1052	Synthetic amphiphiles as therapeutic antibacterials: lessons on bactericidal efficacy and cytotoxicity and potential application as an adjuvant in antimicrobial chemotherapy. **2013**, 1, 2612-2623	16
1051	Cell surface engineering with edible protein nanoshells. **2013**, 9, 3128-37	37
1050	Antifungal proteins: More than antimicrobials?. **2013**, 26, 132-145	114
1049	Self-assembled proteins and peptides for regenerative medicine. **2013**, 113, 4837-61	220
1048	AApeptides as a new class of antimicrobial agents. **2013**, 11, 4283-90	40
1047	Controlled systemic release of therapeutic peptides from PEGylated prodrugs by serum proteases. **2013**, 52, 7597-9	23
1046	Interaction of the antimicrobial peptide gomesin with model membranes: a calorimetric study. **2013**, 29, 8609-18	36

1045	Phosphate Ions Promoting Association between Peptide and Modeling Cell Membrane Revealed by Sum Frequency Generation Vibrational Spectroscopy. **2013**, 117, 11095-11103	31
1044	Antimicrobial activity and mechanism of action of a novel cationic □helical dodecapeptide, a partial sequence of cyanate lyase from rice. **2013**, 42, 55-62	18
1043	Antimicrobial nanotechnology: its potential for the effective management of microbial drug resistance and implications for research needs in microbial nanotoxicology. **2013**, 15, 93-102	82
1042	SV40 late protein VP4 forms toroidal pores to disrupt membranes for viral release. **2013**, 52, 3939-48	28
1041	Multilayered coating on titanium for controlled release of antimicrobial peptides for the prevention of implant-associated infections. **2013**, 34, 5969-77	254
1040	Francisella is sensitive to insect antimicrobial peptides. **2013**, 5, 50-9	21
1039	Single and mixed-species trypanosome and microsporidia infections elicit distinct, ephemeral cellular and humoral immune responses in honey bees. **2013**, 40, 300-10	70
1038	Molecular interaction of a new antibacterial polymer with a supported lipid bilayer measured by an in situ label-free optical technique. **2013**, 14, 9722-36	24
1037	Inhibition of Listeria monocytogenes growth in Cheddar cheese by´an´anionic peptides-enriched extract from whey proteins. **2013**, 32, 6-12	13
1036	Broad activity against porcine bacterial pathogens displayed by two insect antimicrobial peptides moricin and cecropin B. **2013**, 35, 106-14	33
1035	When worlds collide: interactions at the interface between biological systems and synthetic cationic conjugated polyelectrolytes and oligomers. **2013**, 29, 10635-47	46
1034	Melittin peptide kills Trypanosoma cruzi parasites by inducing different cell death pathways. **2013**, 69, 227-39	49
1033	A common landscape for membrane-active peptides. **2013**, 22, 870-82	60
1032	Characterization of antimicrobial, cytotoxic, and antiendotoxin properties of short peptides with different hydrophobic amino acids at "a" and "d" positions of a heptad repeat sequence. **2013**, 56, 924-39	27
1031	Biomolecular identification of beta-defensin-like peptides from the skin of the soft-shelled turtle Apalone spinifera. **2013**, 320, 210-7	13
1030	Abiotic Biological Control Agents for Crop Disease Management. **2013**, 511-632	2
1029	Antimicrobial peptides targeting Gram-negative pathogens, produced and delivered by lactic acid bacteria. **2013**, 2, 643-50	50
1028	Conjugated Polyelectrolyte-Based Biocide Applications. **2013**, 263-294	1

1027	Acid-Activated Antimicrobial Random Copolymers: A Mechanism-Guided Design of Antimicrobial Peptide Mimics. **2013**, 46, 3959-3964	50
1026	Tissue distribution, expression, and antimicrobial activity of Anas platyrhynchos avian β-defensin 6. **2013**, 92, 97-104	3
1025	Antibacterial activity of peptides extracted from tryptic hydrolyzate of whey protein by nanofiltration. **2013**, 28, 94-101	52
1024	High in vitro antimicrobial activity of β-peptoid-peptide hybrid oligomers against planktonic and biofilm cultures of Staphylococcus epidermidis. **2013**, 41, 20-7	36
1023	The effect of d-amino acid substitution on the selectivity of temporin L towards target cells: identification of a potent anti-Candida peptide. **2013**, 1828, 652-60	44
1022	Mutual inhibition through hybrid oligomer formation of daptomycin and the semisynthetic lipopeptide antibiotic CB-182,462. **2013**, 1828, 302-8	20
1021	Distinct mechanisms of membrane permeation induced by two polymalic acid copolymers. **2013**, 34, 217-25	18
1020	Short imidazolium chains effectively clear fungal biofilm in keratitis treatment. **2013**, 34, 1018-23	38
1019	Antimicrobial peptides containing unnatural amino acid exhibit potent bactericidal activity against ESKAPE pathogens. **2013**, 21, 205-14	42
1018	Localized permeabilization of E. coli membranes by the antimicrobial peptide Cecropin A. **2013**, 52, 6584-94	61
1017	Peptide-bacteria interactions using engineered surface-immobilized peptides from class IIa bacteriocins. **2013**, 29, 4048-56	27
1016	Naturally occurring antimicrobial peptide OH-CATH30 selectively regulates the innate immune response to protect against sepsis. **2013**, 56, 9136-45	37
1015	Effects of lysine methylation on gramicidin A channel folding in lipid membranes. **2013**, 100, 656-61	5
1014	Screening and characterization of novel bacteriocins from lactic acid bacteria. **2013**, 77, 893-9	53
1013	Dynamic imaging of enzymatic events at polyelectrolyte-disrupted phospholipid membranes using liquid crystals. **2013**, 40, 106-111	6
1012	A critical evaluation of random copolymer mimesis of homogeneous antimicrobial peptides. **2013**, 46, 1908-1915	64
1011	Long-time-scale interaction dynamics between a model antimicrobial peptide and giant unilamellar vesicles. **2013**, 29, 14613-21	9
1010	Frozen translational and rotational motion of human immunodeficiency virus transacting activator of transcription peptide-modified nanocargo on neutral lipid bilayer. **2013**, 85, 5169-75	16

1009	Molecular cloning and expression of ranalexin, a bioactive antimicrobial peptide from Rana catesbeiana in Escherichia coli and assessments of its biological activities. **2013**, 97, 3535-43	25
1008	Carnosic acid is an efflux pumps modulator by dissipation of the membrane potential in Enterococcus faecalis and Staphylococcus aureus. **2013**, 29, 137-44	22
1007	Predicting antibacterial peptides by the concept of Chou's pseudo-amino acid composition and machine learning methods. **2013**, 20, 180-6	103
1006	Anticancer peptides and proteins: a panoramic view. **2013**, 20, 380-91	15
1005	Poly-L-Lysine compacts DNA, kills bacteria, and improves protease inhibition in cystic fibrosis sputum. **2013**, 188, 703-9	17
1004	Combined effect of a peptide-morpholino oligonucleotide conjugate and a cell-penetrating peptide as an antibiotic. **2013**, 110, 8686-9	32
1003	Penetration of milk-derived antimicrobial peptides into phospholipid monolayers as model biomembranes. **2013**, 2013, 914540	3
1002	Advances in separation and concentration of microorganisms from food samples. **2013**, 173-192	4
1001	The Human Cathelicidin Antimicrobial Peptide LL-37 as a Potential Treatment for Polymicrobial Infected Wounds. **2013**, 4, 143	125
1000	Acinetobacter baumannii: A Brief Account of Mechanisms of Multidrug Resistance and Current and Future Therapeutic Management. **2013**, 7, 2602-5	25
999	Antitumor effect of the antimicrobial peptide GLI13-8 derived from domain of the avian □-defensin-4. **2013**, 45, 904-11	2
998	Peptide-lipid interactions: experiments and applications. **2013**, 14, 18758-89	68
997	Antimicrobial peptides. **2013**, 6, 1543-75	710
996	Antimicrobial peptides design by evolutionary multiobjective optimization. **2013**, 9, e1003212	50
995	Origin and functional diversification of an amphibian defense peptide arsenal. **2013**, 9, e1003662	37
994	Role of the Vibrio cholerae matrix protein Bap1 in cross-resistance to antimicrobial peptides. **2013**, 9, e1003620	68
993	Turning defense into offense: defensin mimetics as novel antibiotics targeting lipid II. **2013**, 9, e1003732	41
992	Effects of antimicrobial peptide revealed by simulations: translocation, pore formation, membrane corrugation and euler buckling. **2013**, 14, 7932-58	14

991	Maculatin 1.1 disrupts Staphylococcus aureus lipid membranes via a pore mechanism. **2013**, 57, 3593-600	34
990	Ceragenin CSA-13 induces cell cycle arrest and antiproliferative effects in wild-type and p53 null mutant HCT116 colon cancer cells. **2013**, 24, 826-34	21
989	Role of the LytSR two-component regulatory system in adaptation to cationic antimicrobial peptides in Staphylococcus aureus. **2013**, 57, 3875-82	28
988	Contribution of structural domains to the activity of ribonuclease 7 against uropathogenic bacteria. **2013**, 57, 766-74	25
987	Microbial management for bacterial pathogen control in invertebrate aquaculture hatcheries. **2013**, 246-285	9
986	The host and the flora. **2013**, 31, 286-92	15
985	Immunotherapy for pulmonary TB: antimicrobial peptides and their inducers. **2013**, 5, 1117-26	14
984	Relative contributions of lipooligosaccharide inner and outer core modifications to nontypeable Haemophilus influenzae pathogenesis. **2013**, 81, 4100-11	46
983	From antimicrobial to anticancer peptides. A review. **2013**, 4, 294	411
982	Genome-wide identification of genes conferring energy related resistance to a synthetic antimicrobial peptide (Bac8c). **2013**, 8, e55052	13
981	Genomic insights into the fate of colistin resistance and Acinetobacter baumannii during patient treatment. **2013**, 23, 1155-62	69
980	A lactotransferrin single nucleotide polymorphism demonstrates biological activity that can reduce susceptibility to caries. **2013**, 81, 1596-605	33
979	Strategies and molecular tools to fight antimicrobial resistance: resistome, transcriptome, and antimicrobial peptides. **2013**, 4, 412	45
978	From design to screening: a new antimicrobial peptide discovery pipeline. **2013**, 8, e59305	22
977	Human □-defensin 2 induces extracellular accumulation of adenosine in Escherichia coli. **2013**, 57, 4387-93	4
976	Crystal structure and functional mechanism of a human antimicrobial membrane channel. **2013**, 110, 4586-91	91
975	The viroporin activity of the minor structural proteins VP2 and VP3 is required for SV40 propagation. **2013**, 288, 2510-20	19
974	Expression, purification, crystallization and preliminary X-ray analysis of the receiver domain of Staphylococcus aureus LytR protein. **2013**, 69, 1418-21	2

973	Identification of cell-penetrating peptides that are bactericidal to Neisseria meningitidis and prevent inflammatory responses upon infection. **2013**, 57, 3704-12	22
972	Characterization of Antimicrobial Peptides toward the Development of Novel Antibiotics. **2013**, 6, 1055-81	160
971	Brevibacillus laterosporus, a Pathogen of Invertebrates and a Broad-Spectrum Antimicrobial Species. **2013**, 4, 476-92	85
970	What Goes around Comes around-A Comparative Study of the Influence of Chemical Modifications on the Antimicrobial Properties of Small Cyclic Peptides. **2013**, 6, 1130-44	10
969	Antimicrobial peptides: versatile biological properties. **2013**, 2013, 675391	143
968	Induction of the Cpx envelope stress pathway contributes to Escherichia coli tolerance to antimicrobial peptides. **2013**, 79, 7770-9	26
967	An apolipoprotein E mimetic peptide with activities against multidrug-resistant bacteria and immunomodulatory effects. **2013**, 19, 745-50	13
966	Nucleation in mesoscopic systems under transient conditions: peptide-induced pore formation in vesicles. **2013**, 87, 042718	4
965	Extracellular proteases are key mediators of Staphylococcus aureus virulence via the global modulation of virulence-determinant stability. **2013**, 2, 18-34	112
964	Bioinformatic and molecular characterization of cathelicidin-like peptides isolated from the green lizard Anolis carolinensis (Reptilia: Lepidosauria: Iguanidae). **2013**, 80, 177-186	11
963	Iterative antimicrobial candidate selection from informed d-/l-Peptide dimer libraries. **2013**, 14, 2492-9	11
962	pH Dependence of microbe sterilization by cationic antimicrobial peptides. **2013**, 57, 3312-20	40
961	Host defense peptides: general overview and an update on their activity against Chlamydia spp. **2013**, 11, 1215-24	9
960	Rattusin, an intestinal β-defensin-related peptide in rats with a unique cysteine spacing pattern and salt-insensitive antibacterial activities. **2013**, 57, 1823-31	15
959	Common mechanism unites membrane poration by amyloid and antimicrobial peptides. **2013**, 110, 6382-7	122
958	Chemical genomic screening of a Saccharomyces cerevisiae genomewide mutant collection reveals genes required for defense against four antimicrobial peptides derived from proteins found in human saliva. **2013**, 57, 840-7	11
957	Oral mucosal lipids are antibacterial against Porphyromonas gingivalis, induce ultrastructural damage, and alter bacterial lipid and protein compositions. **2013**, 5, 130-40	35
956	Synergistic co-delivery of membrane-disrupting polymers with commercial antibiotics against highly opportunistic bacteria. **2013**, 25, 6730-6	107

955	Effect of ester to amide or N-methylamide substitution on bacterial membrane depolarization and antibacterial activity of novel cyclic lipopeptides. **2013**, 8, 1394-402	15
954	Effect of intracellular expression of antimicrobial peptide LL-37 on growth of escherichia coli strain TOP10 under aerobic and anaerobic conditions. **2013**, 57, 4707-16	15
953	FLO11 Gene Is Involved in the Interaction of Flor Strains of Saccharomyces cerevisiae with a Biofilm-Promoting Synthetic Hexapeptide. **2013**, 79, 6023-32	11
952	Focal targeting by human β-defensin 2 disrupts localized virulence factor assembly sites in Enterococcus faecalis. **2013**, 110, 20230-5	50
951	Advances in Polymeric and Lipid-Core Micelles as Drug Delivery Systems. **2013**, 86-105	2
950	Antimicrobial Peptides from Fish. **2013**, 106-141	2
949	Predicting the activity of antimicrobial peptides with amino acid topological information. **2013**, 9, 32-44	13
948	Kontrollierte systemische Freisetzung therapeutischer Peptide aus PEGylierten Prodrugs durch Serumproteasen. **2013**, 125, 7747-7750	4
947	Targeting Intracellular Pathogenic Bacteria with Unnatural Proline-Rich Peptides: Coupling Antibacterial Activity with Macrophage Penetration. **2013**, 125, 9846-9849	8
946	A brief overview of antimicrobial peptides containing unnatural amino acids and ligand-based approaches for peptide ligands. **2013**, 13, 3205-24	25
945	Identification and expression profile analysis of antimicrobial peptide/protein in Asian corn borer, Ostrinia furnacalis (Guenée). **2013**, 9, 1004-12	17
944	Snake Venom Proteins and Peptides as Novel Antibiotics Against Microbial Infections. **2013**, 10, 10-28	6
943	Marine Flatfish-Derived Bioactive Peptides: From the Ocean to the Bedside. **2013**,	
942	New and alternative approaches to tackling antibiotic resistance. **2013**, 5, 51	32
941	Defensins: More than Nature?s Anti-bug Spray?. **2013**, s8,	
940	Ultrashort cationic lipopeptides and lipopeptoids selectively induce cytokine production in macrophages. **2013**, 8, e54280	11
939	Two functional motifs define the interaction, internalization and toxicity of the cell-penetrating antifungal peptide PAF26 on fungal cells. **2013**, 8, e54813	33
938	Activity determinants of helical antimicrobial peptides: a large-scale computational study. **2013**, 8, e66440	24

937	Mechanisms of the antifungal action of marine metagenome-derived peptide, MMGP1, against Candida albicans. **2013**, 8, e69316	15
936	Nature-inspired antimicrobial polymers--assessment of their potential for biomedical applications. **2013**, 8, e73812	47
935	Effects of a skin neuropeptide (substance p) on cutaneous microflora. **2013**, 8, e78773	39
934	Both group 4 capsule and lipopolysaccharide O-antigen contribute to enteropathogenic Escherichia coli resistance to human □defensin 5. **2013**, 8, e82475	16
933	LAMP: A Database Linking Antimicrobial Peptides. **2013**, 8, e66557	177
932	Integrative study of physiological changes associated with bacterial infection in Pacific oyster larvae. **2013**, 8, e64534	72
931	Fatty acid conjugation enhances the activities of antimicrobial peptides. **2013**, 5, 52-6	14
930	Antibiotic development challenges: the various mechanisms of action of antimicrobial peptides and of bacterial resistance. **2013**, 4, 353	321
929	Modeling the interaction of dodecylphosphocholine micelles with the anticoccidial peptide PW2 guided by NMR data. **2013**, 18, 10056-80	6
928	Structure-activity relationships of cecropin-like peptides and their interactions with phospholipid membrane. **2013**, 46, 282-7	44
927	Magnetic nanoparticles: new players in antimicrobial peptide therapeutics. **2013**, 14, 595-606	14
926	Peptidomimetics as a new generation of antimicrobial agents: current progress. **2014**, 7, 229-37	45
925	Current and future approaches to the prevention and treatment of staphylococcal medical device-related infections. **2015**, 21, 100-13	45
924	Low structural variation in the host-defense peptide repertoire of the dwarf clawed frog Hymenochirus boettgeri (Pipidae). **2014**, 9, e86339	7
923	Stimulus-selective regulation of human mast cell gene expression, degranulation and leukotriene production by fluticasone and salmeterol. **2014**, 9, e96891	5
922	Characterization of nontypable Haemophilus influenzae isolates recovered from adult patients with underlying chronic lung disease reveals genotypic and phenotypic traits associated with persistent infection. **2014**, 9, e97020	24
921	Medium effects on minimum inhibitory concentrations of nylon-3 polymers against E. coli. **2014**, 9, e104500	30
920	Aedesin: structure and antimicrobial activity against multidrug resistant bacterial strains. **2014**, 9, e105441	11

919	Antibacterial activity of novel cationic peptides against clinical isolates of multi-drug resistant Staphylococcus pseudintermedius from infected dogs. **2014**, 9, e116259	35
918	State of the art in the studies on crotamine, a cell penetrating peptide from South American rattlesnake. **2014**, 2014, 675985	33
917	Synthetic Antimicrobial Peptides Exhibit Two Different Binding Mechanisms to the Lipopolysaccharides Isolated from Pseudomonas aeruginosa and Klebsiella pneumoniae. **2014**, 2014, 809283	9
916	Potential application of antimicrobial peptides in the treatment of bacterial biofilm infections. **2015**, 21, 67-84	75
915	Covalent modification of a ten-residue cationic antimicrobial peptide with levofloxacin. **2014**, 2, 71	13
914	Mechanistic insight into CM18-Tat11 peptide membrane-perturbing action by whole-cell patch-clamp recording. **2014**, 19, 9228-39	11
913	Antimicrobial Effects of a Hexapetide KCM21 against Pseudomonas syringae pv. tomato DC3000 and Clavibacter michiganensis subsp. michiganensis. **2014**, 30, 245-53	7
912	Mechanism of Action of Antimicrobial Peptides Against Bacterial Membrane. **2014**, 44, 140	2
911	Efficacy of the small molecule inhibitor of Lipid II BAS00127538 against Acinetobacter baumannii. **2014**, 8, 1061-4	9
910	Resistance to Antimicrobial Peptides in Vibrios. **2014**, 3, 540-63	17
909	Echinoderm Antimicrobial Peptides to Contrast Human Pathogens. **2014**, 1,	2
908	. **2014**,	4
907	Insights into the Antimicrobial Activities of Unusual Antimicrobial Peptide Families from Amphibian Skin. **2014**, 04,	6
906	Phosphoinositide-mediated oligomerization of a defensin induces cell lysis. **2014**, 3, e01808	117
905	Bioinorganic Chemistry of Antimicrobial and Host-Defense Peptides. **2014**, 34, 42-58	9
904	Novel method to identify the optimal antimicrobial peptide in a combination matrix, using anoplin as an example. **2014**, 58, 1063-70	14
903	Nonenzymatic conversion of ADP-ribosylated arginines to ornithine alters the biological activities of human neutrophil peptide-1. **2014**, 193, 6144-51	5
902	Antimicrobial host defence peptide, LL-37, as a potential vaginal contraceptive. **2014**, 29, 683-96	18

901	Actin enables the antimicrobial action of LL-37 peptide in the presence of microbial proteases. **2014**, 289, 22926-22941	15
900	pH modulates the activity and synergism of the airway surface liquid antimicrobials -defensin-3 and LL-37. **2014**, 111, 18703-8	132
899	Synergistic interaction of PMAP-36 and PRW4 with aminoglycoside antibiotics and their antibacterial mechanism. **2014**, 30, 3121-8	8
898	Design and synthesis of cationic antibacterial peptide based on Leucrocin I sequence, antibacterial peptide from crocodile (Crocodylus siamensis) white blood cell extracts. **2014**, 67, 205-12	15
897	Peptidomimetics as Antimicrobial Agents. **2014**, 91-108	
896	Noctilisin, a Venom Glycopeptide of Sirex noctilio (Hymenoptera: Siricidae), Causes Needle Wilt and Defense Gene Responses in Pines. **2014**, 107, 1931-45	23
895	Challenges and future prospects of antibiotic therapy: from peptides to phages utilization. **2014**, 5, 105	79
894	Avian antimicrobial host defense peptides: from biology to therapeutic applications. **2014**, 7, 220-47	78
893	Combined systems approaches reveal highly plastic responses to antimicrobial peptide challenge in Escherichia coli. **2014**, 10, e1004104	30
892	Fluorescence interference contrast based approach to study real time interaction of melittin with plasma membranes. **2014**,	
891	Antimicrobials, stress and mutagenesis. **2014**, 10, e1004445	51
890	Combining flagellin and human -defensin-3 to combat bacterial infections. **2014**, 5, 673	1
889	Antimicrobial peptides: their role as infection-selective tracers for molecular imaging. **2014**, 2014, 867381	104
888	Symbiotic plant peptides eliminate Candida albicans both in vitro and in an epithelial infection model and inhibit the proliferation of immortalized human cells. **2014**, 2014, 320796	22
887	Subcellular Proteomics for Understanding Host Defense Peptides Mechanism of Action. **2014**, 1,	
886	Nanohybrids of silver particles on clay platelets delaminate Pseudomonas biofilms. **2014**, 9, 1019-33	1
885	An antifungal mechanism of curcumin lies in membrane-targeted action within Candida albicans. **2014**, 66, 780-5	63
884	Multifunctional poly(Vinyl Amine)s bearing Azetidinium groups: one pot preparation in water and antimicrobial properties. **2014**, 14, 1116-24	16

883	Novel imidazolium salt--peptide conjugates and their antimicrobial activity. **2014**, 25, 2166-74	27
882	Surface-lattice model describes electrostatic interactions of ions and polycations with bacterial lipopolysaccharides: ion valence and polycation's excluded area. **2014**, 30, 13631-40	6
881	In-depth phosphoproteomic analysis of royal jelly derived from western and eastern honeybee species. **2014**, 13, 5928-43	31
880	Histatins: salivary peptides with copper(II)- and zinc(II)-binding motifs: perspectives for biomedical applications. **2014**, 281, 657-72	76
879	Interaction of multiple biomimetic antimicrobial polymers with model bacterial membranes. **2014**, 141, 084902	32
878	The production of recombinant cationic □helical antimicrobial peptides in plant cells induces the formation of protein bodies derived from the endoplasmic reticulum. **2014**, 12, 81-92	20
877	Defending the fort: a role for defensin-2 in limiting Rickettsia montanensis infection of Dermacentor variabilis. **2014**, 23, 457-65	7
876	Salivary antimicrobial proteins associate with age-related changes in streptococcal composition in dental plaque. **2014**, 29, 284-93	20
875	The membrane-lytic peptides K8L9 and melittin enter cancer cells via receptor endocytosis following subcytotoxic exposure. **2014**, 21, 1522-32	24
874	Design of novel analogues of short antimicrobial peptide anoplin with improved antimicrobial activity. **2014**, 20, 945-51	28
873	Chemosensing ensembles for monitoring biomembrane transport in real time. **2014**, 53, 2762-5	78
872	The CpxR/CpxA two-component regulatory system up-regulates the multidrug resistance cascade to facilitate Escherichia coli resistance to a model antimicrobial peptide. **2014**, 289, 32571-82	62
871	Endogenous cathelicidin production limits inflammation and protective immunity to Mycobacterium avium in mice. **2014**, 2, 1-12	14
870	Secretory ranalexin produced in recombinant Pichia pastoris exhibits additive or synergistic bactericidal activity when used in combination with polymyxin B or linezolid against multi-drug resistant bacteria. **2014**, 9, 110-9	6
869	Antimicrobial peptides from echinoderms as antibiofilm agents: a natural strategy to combat bacterial infections. **2014**, 81, 312-321	3
868	Magainins □A Model for Development of Eukaryotic Antimicrobial Peptides (AMPs). **2014**, 47-70	1
867	Strategies employed in the design and optimization of synthetic antimicrobial peptide amphiphiles with enhanced therapeutic potentials. **2014**, 78, 28-45	162
866	Identification of immunity-related genes in Ostrinia furnacalis against entomopathogenic fungi by RNA-seq analysis. **2014**, 9, e86436	45

865	Novel role for the yceGH tellurite resistance genes in the pathogenesis of Bacillus anthracis. **2014**, 82, 1132-40	19
864	Pore formation in 1,2-dimyristoyl-sn-glycero-3-phosphocholine/cholesterol mixed bilayers by low concentrations of antimicrobial peptide melittin. **2014**, 123, 419-28	17
863	Melittin disruption of raft and non-raft-forming biomimetic membranes: a study by quartz crystal microbalance with dissipation monitoring. **2014**, 123, 938-44	19
862	Pharmacokinetics and Pharmacodynamics of Colistin. **2014**, 351-380	3
861	Expression, purification, and in vitro comparative characterization of avian beta-defensin-2, -6, and -12. **2014**, 58, 541-9	8
860	Volatolomics analysis using FTIR spectroscopy for breast cancer identification in vitro. **2014**,	
859	Boosting innate immunity: development and validation of a cell-based screening assay to identify LL-37 inducers. **2014**, 20, 364-76	20
858	Transcriptome analysis of the effect of Vibrio alginolyticus infection on the innate immunity-related complement pathway in Epinephelus coioides. **2014**, 15, 1102	38
857	Functional truncated membrane pores. **2014**, 111, 2425-30	53
856	Biocompatibility of antimicrobial melimine lenses: rabbit and human studies. **2014**, 91, 570-81	50
855	DrsG from Streptococcus dysgalactiae subsp. equisimilis inhibits the antimicrobial peptide LL-37. **2014**, 82, 2337-44	9
854	Midkine in host defence. **2014**, 171, 859-69	9
853	Antibacterial peptides from barbel muscle protein hydrolysates: Activity against some pathogenic bacteria. **2014**, 55, 183-188	49
852	Two interdependent mechanisms of antimicrobial activity allow for efficient killing in nylon-3-based polymeric mimics of innate immunity peptides. **2014**, 1838, 2269-79	27
851	Antimicrobial peptide alamethicin insertion into lipid bilayer: a QCM-D exploration. **2014**, 116, 472-81	50
850	Epidermal growth factor receptor inhibitors selectively inhibit the expressions of human □-defensins induced by Staphylococcus epidermidis. **2014**, 75, 94-9	14
849	Effect of hydrophobic modifications in antimicrobial peptides. **2014**, 205, 265-74	95
848	Possible mechanism of structural transformations induced by StAsp-PSI in lipid membranes. **2014**, 1838, 339-47	13

847	Structural glance into a novel anti-staphylococcal peptide. **2014**, 102, 49-57	5
846	Functional characterization of naturally occurring melittin peptide isoforms in two honey bee species, Apis mellifera and Apis cerana. **2014**, 53, 185-93	25
845	Functional intersection of Human Defensin 5 with the TNF receptor pathway. **2014**, 588, 1906-12	10
844	(19)F NMR screening of unrelated antimicrobial peptides shows that membrane interactions are largely governed by lipids. **2014**, 1838, 2260-8	30
843	Cell penetrating peptides and cationic antibacterial peptides: two sides of the same coin. **2014**, 289, 14448-57	36
842	Competitive interactions of amphipathic polycationic peptides and cationic fluorescent probes with lipid membrane: experimental approaches and computational model. **2014**, 545, 167-78	8
841	Building blocks of the apoptotic pore: how Bax and Bak are activated and oligomerize during apoptosis. **2014**, 21, 196-205	235
840	Characterisation and expression profile of the bovine cathelicidin gene repertoire in mammary tissue. **2014**, 15, 128	24
839	Microcalorimetric investigation on antibacterial activity of the peptide from Plutella xylostella. **2014**, 115, 2463-2470	1
838	Design and high-level expression of a hybrid antimicrobial peptide LF15-CA8 in Escherichia coli. **2014**, 41, 527-34	11
837	Anti-infective activities of lactobacillus strains in the human intestinal microbiota: from probiotics to gastrointestinal anti-infectious biotherapeutic agents. **2014**, 27, 167-99	203
836	Interaction of protamine with gram-negative bacteria membranes: possible alternative mechanisms of internalization in Escherichia coli, Salmonella typhimurium and Pseudomonas aeruginosa. **2014**, 20, 240-50	12
835	Mini-review: Antimicrobial peptides and enzymes as promising candidates to functionalize biomaterial surfaces. **2014**, 30, 483-99	140
834	Bovine pancreatic trypsin inhibitor is a new antifungal peptide that inhibits cellular magnesium uptake. **2014**, 92, 1188-97	15
833	From frog integument to human skin: dermatological perspectives from frog skin biology. **2014**, 89, 618-55	33
832	Improved bioactivity of antimicrobial peptides by addition of amino-terminal copper and nickel (ATCUN) binding motifs. **2014**, 9, 1892-901	47
831	Targeting methicillin-resistant Staphylococcus aureus with short salt-resistant synthetic peptides. **2014**, 58, 4113-22	64
830	Investigation of the antibacterial activity of a short cationic peptide against multidrug-resistant Klebsiella pneumoniae and Salmonella typhimurium strains and its cytotoxicity on eukaryotic cells. **2014**, 30, 1533-40	36

829	QSAR modeling: where have you been? Where are you going to?. **2014**, 57, 4977-5010	996
828	Antibacterial membrane attack by a pore-forming intestinal C-type lectin. **2014**, 505, 103-7	200
827	Challenges and Prospects in Exploring Marine Microbial Diversity. **2014**, 47-58	
826	Antimicrobial peptides: new drugs for bad bugs?. **2014**, 14, 11-4	90
825	Histochemical, Biochemical and Cell Biological aspects of tail regeneration in lizard, an amniote model for studies on tissue regeneration. **2014**, 48, 143-244	76
824	Energetic view on membrane pore formation. **2014**, 106, 1-2	11
823	Small molecular antibacterial peptoid mimics: the simpler the better!. **2014**, 57, 1428-36	135
822	Antimicrobial Polycarbonates: Investigating the Impact of Nitrogen-Containing Heterocycles as Quaternizing Agents. **2014**, 47, 1285-1291	99
821	Microfluidic based biosensing for Escherichia coli detection by embedding antimicrobial peptide-labeled beads. **2014**, 191, 211-218	29
820	Identification of antimicrobial peptides and immobilization strategy suitable for a covalent surface coating with biocompatible properties. **2014**, 25, 308-19	37
819	Continuous flow atomic force microscopy imaging reveals fluidity and time-dependent interactions of antimicrobial dendrimer with model lipid membranes. **2014**, 8, 396-408	34
818	Staphylococcus aureus biofilm susceptibility to small and potent □(2,2)-amino acid derivatives. **2014**, 30, 81-93	13
817	Fundamentals of Antimicrobial Pharmacokinetics and Pharmacodynamics. **2014**,	14
816	High-resolution structures and orientations of antimicrobial peptides piscidin 1 and piscidin 3 in fluid bilayers reveal tilting, kinking, and bilayer immersion. **2014**, 136, 3491-504	61
815	Isolation and identification of a new intracellular antimicrobial peptide produced by Paenibacillus alvei AN5. **2014**, 30, 1377-85	7
814	Antimicrobial hydrogels: a new weapon in the arsenal against multidrug-resistant infections. **2014**, 78, 46-62	193
813	A potent antimicrobial peptide derived from the protein LsGRP1 of Lilium. **2014**, 104, 340-6	7
812	Fetal human keratinocytes produce large amounts of antimicrobial peptides: involvement of histone-methylation processes. **2014**, 134, 2192-2201	21

811	Self-assembling amphiphilic peptides. **2014**, 20, 453-67	244
810	Combining Topology and Sequence Design for the Discovery of Potent Antimicrobial Peptide Dendrimers against Multidrug-Resistant Pseudomonas aeruginosa. **2014**, 126, 13041-13045	9
809	Combining topology and sequence design for the discovery of potent antimicrobial peptide dendrimers against multidrug-resistant Pseudomonas aeruginosa. **2014**, 53, 12827-31	83
808	Local pressure changes in lipid bilayers due to adsorption of melittin and magainin-h2 antimicrobial peptides: results from computer simulations. **2014**, 118, 12673-9	10
807	Monotreme lactation protein is highly expressed in monotreme milk and provides antimicrobial protection. **2014**, 6, 2754-73	23
806	Electrostatic modification of the lipopolysaccharide layer: competing effects of divalent cations and polycationic or polyanionic molecules. **2014**, 10, 7528-44	32
805	Molecular understanding of a potential functional link between antimicrobial and amyloid peptides. **2014**, 10, 7425-51	73
804	The amphibian antimicrobial peptide uperin 3.5 is a cross-Æcross-□chameleon functional amyloid. **2021**, 118,	11
803	Evaluation of Antibacterial Activity of Magainin and Mastoparan and Its Novel Hybrid Against MDR E. coli Isolates of Neonatal Calves. **2021**, 27, 1111-1119	8
802	Bovine NK-lysin-derived peptides have bactericidal effects against Mycobacterium avium subspecies paratuberculosis. **2021**, 52, 11	1
801	Molecular engineering of antimicrobial peptide (AMP)-polymer conjugates. **2021**, 9, 5069-5091	8
800	Structure of the defensin NsD7 in complex with PIP reveals that defensin´:lipid oligomer topologies are dependent on lipid type. **2017**, 591, 2482-2490	10
799	Paneth cell alpha-defensin synthesis and function. **2006**, 306, 1-25	64
798	Antimicrobial C3a--biology, biophysics, and evolution. **2007**, 598, 141-58	15
797	Antimicrobial Peptides and Polyphenols: Implications in Food Safety and Preservation. **2017**, 117-152	1
796	Combined peptidomics and genomics approach to the isolation of amphibian antimicrobial peptides. **2010**, 615, 177-90	4
795	Molecular simulations of antimicrobial peptides. **2010**, 618, 267-85	18
794	Measuring antimicrobial peptide activity on epithelial surfaces in cell culture. **2010**, 618, 371-82	7

793	High-throughput screening for antimicrobial peptides using the SPOT technique. **2010**, 618, 125-33	6
792	Biogenesis of Gram-Negative OMVs. **2020**, 23-46	2
791	Insect Defense Proteins and Peptides. **2020**, 94, 81-121	7
790	Cytotoxic Effects and Biocompatibility of Antimicrobial Materials. **2015**, 113-147	1
789	Solid-State 19F-NMR Analysis of Peptides in Oriented Biomembranes. **2017**, 1-18	1
788	Antimicrobial Peptides: Roles in Periodontal Health and Disease. **2018**, 97-110	1
787	Molecular Dynamics Study of the Solution Behaviour of Antimicrobial Peptide Indolicidin. **2019**, 257-265	3
786	An SVM Model Based on Physicochemical Properties to Predict Antimicrobial Activity from Protein Sequences with Cysteine Knot Motifs. **2010**, 59-62	17
785	An Alternative Strategy as Quorum-Sensing Inhibitor: Pheromone-Guided Antimicrobial Peptides. **2015**, 327-334	2
784	Vipericidins, Snake Venom Cathelicidin-Related Peptides, in the Milieu of Reptilian Antimicrobial Polypeptides. **2017**, 297-325	1
783	Crotamine: Function Diversity and Potential Applications. **2016**, 1-30	2
782	Alternative Therapies to Antibiotics to Combat Drug-Resistant Bacterial Pathogens. **2019**, 193-212	1
781	Antimicrobial Polymers. **2021**, 1-42	4
780	A Crosstalk on Antimicrobial Peptides. **2021**, 27, 229-244	11
779	Physiological Role of Two-Component Signal Transduction Systems in Food-Associated Lactic Acid Bacteria. **2017**, 99, 1-51	17
778	EcDBS1R6: A novel cationic antimicrobial peptide derived from a signal peptide sequence. **2020**, 1864, 129633	5
777	Potent in vitro and in vivo antimicrobial activity of semisynthetic amphiphilic □mangostin derivative LS02 against Gram-positive bacteria with destructive effect on bacterial membrane. **2020**, 1862, 183353	5
776	Mechanism of the antimicrobial activity of whey protein-□-polylysine complexes against Escherichia coli and its application in sauced duck products. **2020**, 328, 108663	18

775	Antimicrobial peptide Temporin-L complexed with anionic cyclodextrins results in a potent and safe agent against sessile bacteria. **2020**, 584, 119437	10
774	Molecular Dynamics Simulation of the Interaction of Two Linear Battacin Analogs with Model Gram-Positive and Gram-Negative Bacterial Cell Membranes. **2021**, 6, 388-400	6
773	Antibacterial and Antiviral Functional Materials: Chemistry and Biological Activity toward Tackling COVID-19-like Pandemics. **2021**, 4, 8-54	75
772	Chapter 15:Antimicrobial Polymers and Surfaces Natural Mimics or Surpassing Nature?. **2016**, 490-522	2
771	Bioactive peptides: A review. **2017**, 1, 29-46	80
770	OAK-based cochleates as a novel approach to overcome multidrug resistance in bacteria. **2010**, 24, 5092-5101	4
769	Amphibian antimicrobial peptide fallaxin analogue FL9 affects virulence gene expression and DNA replication in Staphylococcus aureus. **2015**, 64, 1504-1513	14
768	Novel engineered cationic antimicrobial peptides display broad-spectrum activity against Francisella tularensis, Yersinia pestis and Burkholderia pseudomallei. **2016**, 65, 188-194	15
767	Dental floss impregnated with povidone-iodine coated with Eudragit L-100 as an antimicrobial delivery system against periodontal-associated pathogens. **2020**, 69, 298-308	5
766	Inner membrane proteins YgdD and SbmA are required for the complete susceptibility of to the proline-rich antimicrobial peptide arasin 1(1-25). **2016**, 162, 601-609	20
765	Physiological effects of major up-regulated Alnus glutinosa peptides on Frankia sp. ACN14a. **2016**, 162, 1173-1184	7
764	A Generative Approach toward Precision Antimicrobial Peptide Design.	2
763	Balancing selection drives maintenance of genetic variation in Drosophila antimicrobial peptides.	3
762	An Atomistic view of Short-chain Antimicrobial Biomimetic peptides in Action.	1
761	14-helical -peptides Elicit Toxicity againstC. albicansby Forming Pores in the Cell Membrane and Subsequently Disrupting Intracellular Organelles.	1
760	Preventing S. aureus biofilm formation on titanium surfaces by the release of antimicrobial -peptides from polyelectrolyte multilayers.	1
759	The antimicrobial peptide Defensin cooperates with Tumour Necrosis Factor to drive tumour cell death in Drosophila.	2
758	Chemical-genetic profiling reveals cross-resistance and collateral sensitivity between antimicrobial peptides.	1

757	Bacteria primed by antimicrobial peptides develop tolerance and persist.	2
756	Antimicrobial Peptides as Mucosal Adjuvants. **2007**, 281-295	3
755	Antimicrobial Peptide Exposure Selects for Resistant and Fit Stenotrophomonas maltophilia Mutants That Show Cross-Resistance to Antibiotics. **2020**, 5,	2
754	Cytokeratins mediate epithelial innate defense through their antimicrobial properties. **2012**, 122, 3665-77	69
753	Antimicrobial activity of some plant essential oils and an antimicrobial-peptide against some clinically isolated pathogens. **2020**, 7,	4
752	Antimicrobial Peptides. **2009**, 357-401	2
751	Vitamin D and Infection. **2012**, 323-348	2
750	The PDB database is a rich source of alpha-helical anti-microbial peptides to combat disease causing pathogens. **2014**, 3, 295	7
749	The PDB database is a rich source of alpha-helical anti-microbial peptides to combat disease causing pathogens. **2014**, 3, 295	7
748	Peptide-based Antifungal Therapies against Emerging Infections. **2010**, 35, 197	107
747	Identification and gene expression analysis of a taxonomically restricted cysteine-rich protein family in reef-building corals. **2009**, 4, e4865	53
746	End-tagging of ultra-short antimicrobial peptides by W/F stretches to facilitate bacterial killing. **2009**, 4, e5285	74
745	Subcellular Min oscillations as a single-cell reporter of the action of polycations, protamine, and gentamicin on Escherichia coli. **2009**, 4, e7285	5
744	Antimicrobial activity of human prion protein is mediated by its N-terminal region. **2009**, 4, e7358	53
743	Staphylococcus epidermidis antimicrobial delta-toxin (phenol-soluble modulin-gamma) cooperates with host antimicrobial peptides to kill group A Streptococcus. **2010**, 5, e8557	132
742	A rigidity-enhanced antimicrobial activity: a case for linear cationic □helical peptide HP(2-20) and its four analogues. **2011**, 6, e16441	13
741	Human antimicrobial peptide LL-37 inhibits adhesion of Candida albicans by interacting with yeast cell-wall carbohydrates. **2011**, 6, e17755	102
740	Butyrate enhances disease resistance of chickens by inducing antimicrobial host defense peptide gene expression. **2011**, 6, e27225	143

739	Identification of lactoferricin B intracellular targets using an Escherichia coli proteome chip. **2011**, 6, e28197	26
738	Anti-HIV-1 activity of a new scorpion venom peptide derivative Kn2-7. **2012**, 7, e34947	43
737	Antibacterial activity and mechanism of a scorpion venom peptide derivative in vitro and in vivo. **2012**, 7, e40135	64
736	Tissue factor pathway inhibitor 2 is found in skin and its C-terminal region encodes for antibacterial activity. **2012**, 7, e52772	21
735	Barrier immune effectors are maintained during transition from nurse to forager in the honey bee. **2013**, 8, e54097	24
734	Wide screening of phage-displayed libraries identifies immune targets in planta. **2013**, 8, e54654	10
733	Regulatory patterns of a large family of defensin-like genes expressed in nodules of Medicago truncatula. **2013**, 8, e60355	34
732	Dual action of BPC194: a membrane active peptide killing bacterial cells. **2013**, 8, e61541	13
731	An intrinsically disordered region of the adenovirus capsid is implicated in neutralization by human alpha defensin 5. **2013**, 8, e61571	38
730	De-novo design of antimicrobial peptides for plant protection. **2013**, 8, e71687	48
729	Cyclic peptide inhibitors of the β-sliding clamp in Staphylococcus aureus. **2013**, 8, e72273	15
728	NMR structure of temporin-1 ta in lipopolysaccharide micelles: mechanistic insight into inactivation by outer membrane. **2013**, 8, e72718	29
727	Comparing selection on S. aureus between antimicrobial peptides and common antibiotics. **2013**, 8, e76521	45
726	Expression of an engineered heterologous antimicrobial peptide in potato alters plant development and mitigates normal abiotic and biotic responses. **2013**, 8, e77505	31
725	Effects of vitamin D on airway epithelial cell morphology and rhinovirus replication. **2014**, 9, e86755	49
724	Hp1404, a new antimicrobial peptide from the scorpion Heterometrus petersii. **2014**, 9, e97539	15
723	Antimicrobial GL13K peptide coatings killed and ruptured the wall of Streptococcus gordonii and prevented formation and growth of biofilms. **2014**, 9, e111579	75
722	Human β-defensin 4 with non-native disulfide bridges exhibit antimicrobial activity. **2015**, 10, e0119525	22

721	Evidence for a novel mechanism of antimicrobial action of a cyclic R-,W-rich hexapeptide. **2015**, 10, e0125056	27
720	OmpA Binding Mediates the Effect of Antimicrobial Peptide LL-37 on Acinetobacter baumannii. **2015**, 10, e0141107	22
719	Comparative Evaluation of the Antimicrobial Activity of Different Antimicrobial Peptides against a Range of Pathogenic Bacteria. **2015**, 10, e0144611	97
718	Characterization of a Decapentapletic Gene (AccDpp) from Apis cerana cerana and Its Possible Involvement in Development and Response to Oxidative Stress. **2016**, 11, e0149117	5
717	A Rapid and Quantitative Flow Cytometry Method for the Analysis of Membrane Disruptive Antimicrobial Activity. **2016**, 11, e0151694	34
716	Novel Antimicrobial Peptides EeCentrocins 1, 2 and EeStrongylocin 2 from the Edible Sea Urchin Echinus esculentus Have 6-Br-Trp Post-Translational Modifications. **2016**, 11, e0151820	25
715	Expression of the Bovine NK-Lysin Gene Family and Activity against Respiratory Pathogens. **2016**, 11, e0158882	11
714	Adiponectin Suppresses UVB-Induced Premature Senescence and hBD2 Overexpression in Human Keratinocytes. **2016**, 11, e0161247	10
713	Sarkosyl-Induced Helical Structure of an Antimicrobial Peptide GW-Q6 Plays an Essential Role in the Binding of Surface Receptor OprI in Pseudomonas aeruginosa. **2016**, 11, e0164597	7
712	D19S Mutation of the Cationic, Cysteine-Rich Protein PAF: Novel Insights into Its Structural Dynamics, Thermal Unfolding and Antifungal Function. **2017**, 12, e0169920	20
711	Polymicrobial Ventilator-Associated Pneumonia: Fighting In Vitro Candida albicans-Pseudomonas aeruginosa Biofilms with Antifungal-Antibacterial Combination Therapy. **2017**, 12, e0170433	25
710	Variations in the interaction of human defensins with Escherichia coli: Possible implications in bacterial killing. **2017**, 12, e0175858	19
709	A synthetic cationic antimicrobial peptide inhibits inflammatory response and the NLRP3 inflammasome by neutralizing LPS and ATP. **2017**, 12, e0182057	21
708	Antimicrobial activity of bovine NK-lysin-derived peptides on bovine respiratory pathogen Histophilus somni. **2017**, 12, e0183610	13
707	Hydrophobic residues are critical for the helix-forming, hemolytic and bactericidal activities of amphipathic antimicrobial peptide TP4. **2017**, 12, e0186442	21
706	Ubiquitously expressed Human Beta Defensin 1 (hBD1) forms bacteria-entrapping nets in a redox dependent mode of action. **2017**, 13, e1006261	46
705	Oxidative stress induced in E. coli by the human antimicrobial peptide LL-37. **2017**, 13, e1006481	35
704	Hydrophilic/hydrophobic characters of antimicrobial peptides derived from animals and their effects on multidrug resistant clinical isolates. **2015**, 36, 41-7	11

703	Antioxidant agents against trichothecenes: new hints for oxidative stress treatment. **2017**, 8, 110708-110726	38
702	The role of antimicrobial peptides in defending the urinary tract against infections. **2019**, 143-150	3
701	Identification and Characterization of a Novel Gene-encoded Antioxidant Peptide from Odorous Frog Skin. **2019**, 26, 160-169	6
700	Clinical Applications of Antimicrobial Peptides (AMPs): Where do we Stand Now?. **2020**, 27, 120-134	43
699	NMR Assisted Antimicrobial Peptide Designing: Structure Based Modifications and Functional Correlation of a Designed Peptide VG16KRKP. **2020**, 27, 1387-1404	3
698	The Potential of Frog Skin Peptides for Anti-Infective Therapies: The Case of Esculentin-1a(1-21)NH2. **2020**, 27, 1405-1419	7
697	Antimicrobial peptides and peptidomimetics - potent therapeutic allies for staphylococcal infections. **2015**, 21, 2073-88	46
696	Functional Characterization of a Novel Hybrid Peptide with High Potency against Gram-negative Bacteria. **2020**, 26, 376-385	2
695	Setting New Routes for Antifungal Drug Discovery Against Pathogenic Fungi. **2020**, 26, 1509-1520	4
694	About TFE: Old and New Findings. **2019**, 20, 425-451	15
693	Inorganic Gold and Polymeric Poly(Lactide-co-glycolide) Nanoparticles as Novel Strategies to Ameliorate the Biological Properties of Antimicrobial Peptides. **2020**, 21, 429-438	3
692	Antimicrobial Peptides From Lycosidae (Sundevall, 1833) Spiders. **2020**, 21, 527-541	8
691	Synergism between Host Defence Peptides and Antibiotics Against Bacterial Infections. **2020**, 20, 1238-1263	11
690	Self-Assembling, Ultrashort Peptide Gels as Antimicrobial Biomaterials. **2020**, 20, 1300-1309	7
689	Antimicrobial Peptides and their Multiple Effects at Sub-Inhibitory Concentrations. **2020**, 20, 1264-1273	3
688	Antimicrobial Peptides: An Approach to Combat Resilient Infections. **2020**, 17, 542-552	3
687	Effects of C-terminal amidation and heptapeptide ring on the biological activities and advanced structure of amurin-9KY, a novel antimicrobial peptide identified from the brown frog,. **2019**, 40, 198-204	7
686	Antimicrobial peptides: new hope in the war against multidrug resistance. **2019**, 40, 488-505	72

685	MOSPD2 is a receptor mediating the LEAP-2 effect on monocytes/macrophages in a teleost,. **2020**, 41, 644-655	5
684	Synthesis of Low-Molecular-Weight Antibacterial Peptide Mimetics Based on Dialkyl- and Diacylamines. **2020**, 75, 320-327	3
683	Cell-penetrating peptides: a useful tool for the delivery of various cargoes into cells. **2018**, 67, S267-S279	37
682	Expression of host defense peptides in the intestine of Eimeria-challenged chickens. **2017**, 96, 2421-2427	16
681	BrevicidineB, a New Member of the Brevicidine Family, Displays an Extended Target Specificity. **2021**, 12, 693117	5
680	Biofilms as Promoters of Bacterial Antibiotic Resistance and Tolerance. **2020**, 10,	49
679	Brevinin-2GHk from and the Design of Truncated Analogs Exhibiting the Enhancement of Antimicrobial Activity. **2020**, 9,	7
678	Antimicrobial Potential of Food Lactic Acid Bacteria: Bioactive Peptide Decrypting from Caseins and Bacteriocin Production. **2020**, 9,	10
677	Antibacterial Peptides of The Ovine Reproductive Tract*. **2009**, 36, 1483-1489	1
676	Molecular Cloning of Two Novel Temporins From Lithobates catesbeianus and Studying of Their Antimicrobial Mechanisms*. **2009**, 36, 1064-1070	4
675	Comparison of the effects of human β-defensin 3, vancomycin, and clindamycin on Staphylococcus aureus biofilm formation. **2012**, 35, e53-60	19
674	Liposome-Encapsulated Antimicrobial Peptides. **2015**, 301-332	3
673	Host defense peptides: An insight into the antimicrobial world. **2018**, 22, 239-244	25
672	The Cytotoxic Effect of Cecropin A and Cecropin B on the MDA-MB-231 and M14K Tumour Cell Lines. **2014**, 07, 504-515	5
671	Molecular Dynamics Simulations of Hemolytic Peptide ε-Lysin Interacting with a POPC Lipid Bilayer. **2014**, 35, 783-792	3
670	The Antimicrobial Activity of Bacterial-challenged Black Soldier Fly, Hermetia illucens. **2016**, 26, 1409-1414	4
669	Different modes of antibiotic action of homodimeric and monomeric bactenecin, a cathelicidin-derived antibacterial peptide. **2009**, 42, 586-92	14
668	Identification of an antimicrobial peptide from human methionine sulfoxide reductase B3. **2011**, 44, 669-73	2

667	Identification of duck liver-expressed antimicrobial peptide 2 and characterization of its bactericidal activity. **2019**, 32, 1052-1061	5
666	Sequence characterization of cDNA sequence of encoding of an antimicrobial Peptide with no disulfide bridge from the Iranian mesobuthus eupeus venomous glands. **2013**, 15, 36-41	6
665	Therapeutic application of natural inhibitors against snake venom phospholipase A(2). **2012**, 8, 48-57	42
664	Genome-wide identification of antimicrobial peptides in the liver fluke, Clonorchis sinensis. **2015**, 11, 17-20	1
663	AKTIVITAS ANTIBAKTERI EKSTRAK TEMPE TERHADAP BAKTERI Bacillus subtilis DAN Staphylococcus aureus. **2014**, 25, 115-118	8
662	Heterogeneous absorption of antimicrobial peptide LL37 in cells enhances population survivability. **2018**, 7,	38
661	The antimicrobial peptide defensin cooperates with tumour necrosis factor to drive tumour cell death in. **2019**, 8,	29
660	Differential scanning calorimetry of whole Escherichia coli treated with the antimicrobial peptide MSI-78 indicate a multi-hit mechanism with ribosomes as a novel target. **2015**, 3, e1516	12
659	Mode of action of the 2-phenylquinoline efflux inhibitor PQQ4R against. **2017**, 5, e3168	20
658	A novel cecropin B-derived peptide with antibacterial and potential anti-inflammatory properties. **2018**, 6, e5369	18
657	A localized PCR inhibitor in a porcelain crab suggests a protective role. **2014**, 2, e689	3
656	Antibacterial immune functions of subadults and adults in a semelparous spider. **2019**, 7, e7475	2
655	Spiers Memorial Lecture: Analysis and design of membrane-interactive peptides. **2021**,	1
654	His-Rich Peptides, Gly- and His-Rich Peptides: Functionally Versatile Compounds with Potential Multi-Purpose Applications. **2021**, 27, 2945	
653	Tandem Repeat of a Short Human Chemerin-Derived Peptide and Its Nontoxic d-Lysine-Containing Enantiomer Display Broad-Spectrum Antimicrobial and Antitubercular Activities. **2021**, 64, 15349-15366	1
652	A Novel Antimicrobial Peptide Sparamosin From the Mud Crab Showing Potent Antifungal Activity Against. **2021**, 12, 746006	1
651	Dissecting the relationship between antimicrobial peptides and mesenchymal stem cells. **2021**, 108021	2
650	The Long-Term Effect of a Nine Amino-Acid Antimicrobial Peptide AS-hepc3 Against With No Detectable Resistance. **2021**, 11, 752637	0

649	Functional Mechanism of Antimicrobial Peptide Bomidin and Its Safety for Macrobrachium rosenbergii. **2021**, 1	1
648	Designed Antitumor Peptide for Targeted siRNA Delivery into Cancer Spheroids. **2021**, 13, 49713-49728	5
647	HIF-1 mediated activation of antimicrobial peptide LL-37 in type 2 diabetic patients. **2021**, 100, 101	0
646	Antimicrobial peptides (AMPs): A promising class of antimicrobial compounds. **2021**,	14
645	Mechanisms of antimicrobial peptides as characterized by solid-state NMR. **2021**,	1
644	Strategies toward development of antimicrobial biomaterials for dental healthcare applications. **2021**, 118, 4590-4622	1
643	Cardiolipin prevents pore formation in phosphatidylglycerol bacterial membrane models. **2021**, 595, 2701-2714	1
642	Improving the Activity of Antimicrobial Peptides Against Aquatic Pathogen Bacteria by Amino Acid Substitutions and Changing the Ratio of Hydrophobic Residues. **2021**, 12, 773076	0
641	Structure and Formation Mechanism of Antimicrobial Peptides Temporin B- and L-Induced Tubular Membrane Protrusion. **2021**, 22,	1
640	Mechanism of Antimicrobial Peptides: Antimicrobial, Anti-Inflammatory and Antibiofilm Activities. **2021**, 22,	16
639	Studies on Bacterial Pathogenicity since 1950 and Their Future. **2007**, 327-338	
638	DHA as a Mediocre Permeability Barrier against Cations. **2009**,	
637	An NMR Study on the Phase Changes of Lipid Bilayers by Antimicrobial Peptides. **2010**, 54, 183-191	3
636	Infection and Sepsis. **2010**, 239-274	
635	Transformation and function of BCCodY of antagonistic bacterium 2-Q-9 in transgenic tobacco variety K326. **2011**, 37, 143-146	
634	Midkine: A Player in Innate Immunity. **2012**, 29-39	
633	Isolation and purification of a cecropin-like antimicrobial peptide from the japanese oak silkworm, Antheraea yamamai. **2012**, 50, 145-149	
632	Recent progress in physicochemical characteristics of antimicrobial peptides. **2013**, 38, 150-155	

631 Potential Novel Therapeutic Strategies in Cystic Fibrosis. **2014**, 1-25

630 Cloning and functional expression of a cecropin-A gene from the Japanese oak silkworm, Antheraea yamamai. **2014**, 52, 45-51

629 PAGAL - Properties and corresponding graphics of alpha helical structures in proteins. **2014**, 3, 206 6

628 PAGAL - Properties and corresponding graphics of alpha helical structures in proteins. **2014**, 3, 206 8

627 Optimization of Extraction Conditions for Crude Antibacterial Proteins/Peptides from Clarias gariepinus By-products. **2015**, 547-555

626 Antimicrobial Peptides in Spider Venoms. **2015**, 1-15

625 PAGAL - Properties and corresponding graphics of alpha helical structures in proteins. 3, 206

624 Bioactive Peptides from Meat Proteins as Functional Food Components. 181-208 2

623 Intracellular Antibiotic Molecules. 1-8

622 Structure-Activity Relationship of the N-terminal Helix Analog of Papiliocin, PapN. **2015**, 19, 54-60

621 Anti-infective peptides. **2015**, 96-110

620 Innate Immunity. **2016**, 241-253

619 BIOLOGICAL ACTIVITY OF ANTIMICROBIAL PEPTIDES FROM CHICKENS THROMBOCYTES. **2016**, 24-29

618 Antimicrobial and antiviral effects of human defensins: pathogenetic value and prospective application to medicinal therapy. **2016**, 14, 3-37

617 In-Vitro Susceptibility of Different Morphological Forms of Borrelia burgdorferi to Common Lyme Antibiotics in Combination with Antimicrobial Peptides. **2016**, 3,

616 Emerging Aspects in Dendrimer Research. **2016**, 189-209

615 Antimicrobial activity studies from poisonous short nosed tripod fish, Triacanthus biaculeatus (Bloch, 1786) from Visakhapatnam coastal waters, India. **2017**, 2, 24-27 1

614 Examination of the Interaction between a Membrane Active Peptideand Artificial Bilayers by Dual Polarisation Interferometry. **2017**, 7, e2087

613	Signaling and Effector Molecules in Immunity. **2017**, 203-243	
612	Roles of Epidermal Lipids in Barrier Formation. **2017**, 17, 529-538	
611	Crotamine: Function Diversity and Potential Applications. **2017**, 265-293	
610	[illegible] (GEGEEGEE DFGEEAEE), "[illegible]" **2017**, 19-31	
609	Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium.	
608	RHAMM-target peptides inhibit invasion of breast cancer cells. **2017**, 1, 138-148	1
607	Association of Vancomycin with Lipid Vesicles.	
606	Mycobacterium tuberculosis LprE enhances bacterial persistence by inhibiting cathelicidin and autophagy in macrophages.	1
605	Exploring Peptide Sequence Space Using Artificial Intelligence for Antimicrobial Peptides.	
604	Group IIA secreted phospholipase A2in human serum kills commensal but not clinicalEnterococcus faeciumisolates.	
603	Activity of Antimicrobial Peptides Decreases with Increased Cell Membrane Crossing Free Energy Cost.	
602	Heterogeneous Absorption of Antimicrobial Peptide LL37 inEscherichia coliCells Enhances Population Survivability.	
601	Expression of Lysozyme and Aquaporins mRNA in Otitis Media. **2018**, 24, 116-124	
600	Antimicrobial, Antioxidant and Anti-Inflammatory Activities of Proteins of Phaseoulus lunatus (Fabaceae) Baby Lima Beans Produced in Ecuador.	
599	One drug multiple targets: An approach to predict drug efficacies on bacterial strains differing in membrane composition.	1
598	Computationally designing antimicrobial peptides forAcinectobacter Baumannii.	
597	Comparative mode of action of antimicrobial peptide melimine and its derivative Mel4 against Pseudomonas aeruginosa.	1
596	A uniform in vitro efficacy dataset to guide antimicrobial peptide design.	

595 Bioactive Molecules from Bacillus spp.: An Effective Tool for Plant Stress Management. **2019**, 1-23

594 infection and stress survival studies of acid susceptible mutant of. **2019**, 8, 390-396 0

593 Anti-biofilm Activity of Graphene Quantum Dots via Self-Assembly with Bacterial Amyloid Proteins.

592 In silicoidentification of novel peptides with antibacterial activity against multidrug resistantStaphylococcus aureus. 1

591 sMode of action of the antimicrobial peptide Mel4 is independent of Staphylococcus aureus cell membrane permeability. 0

590 BioSAXS measurements reveal that two antimicrobial peptides induce similar molecular changes in Gram-negative and Gram-positive bacteria.

589 The effect of phosphatidylserine on the membrane insertion of the cancer-targeting ATRAM peptide is defined by the non-inserting end. 0

588 Host-microbe interactions in the chemosyntheticRiftia pachyptilasymbiosis.

587 Comparison ofEscherichia colisurface attachment methods for single-cell,in vivomicroscopy.

586 Study of antitumor activity of synthetic peptide ryqlhpyr on the prostate cancer cells. **2019**, 18, 40-50 1

585 Activity of Antimicrobial Peptide; Cathelicidin, on Bacterial Infection. **2019**, 13, 45-53 3

584 Digestive Organs and Status of Escherichia coli in Quail Intestine Given Defatted Maggot (Hermetia illucens) Meal as a Substitute For Meat Bone Meal. **2019**, 24, 237-246

583 Combined efficacy of a novel antimicrobial cationic peptide polymer with conventional antibiotics to combat multi-drug resistant pathogens.

582 Avances cient□ficos del veneno de escorpi□. **2019**, 10, 105-108

581 The human □-defensin-derived peptide HD5(1-9) inhibits cellular attachment and entry of human cytomegalovirus.

580 EcDBS1R6: A new broad-spectrum cationic antibacterial peptide derived from a signal peptide sequence.

579 Immunity Regulation by Supramolecular Assemblies. **2020**, 1-10

578 Sources, Mechanism and Clinical Application of Antimicrobial Peptides. **2020**, 10, 1729-1942

577	The Amphibian Antimicrobial Peptide Uperin 3.5 is a Cross-#Cross-□Chameleon Functional Amyloid.	1
576	Nanotechnology-Based Delivery Systems for Antimicrobial Peptides. **2021**, 13,	4
575	Antimicrobial Peptides: An Update on Classifications and Databases. **2021**, 22,	17
574	Local rigidification and possible coacervation of the Escherichia coli DNA by cationic nylon-3 polymers. **2021**, 120, 5243-5254	1
573	Hydrophobicity-tuned anion responsiveness underlies endosomolytic cargo delivery mediated by amphipathic vehicle peptides. **2021**, 297, 101364	1
572	Host Defense Peptide-Mimicking Polymers and Polymeric-Brush-Tethered Host Defense Peptides: Recent Developments, Limitations, and Potential Success. **2021**, 13,	1
571	[Hypertrophy of palatine tonsils - possible treatment approaches]. **2020**, 85, 57-63	0
570	The Interfacial Interactions of Glycine and Short Glycine Peptides in Model Membrane Systems. **2020**, 22,	0
569	□-defensins and the inflammatory periodontal diseases: a systematic review. **2020**, 25, 276-286	1
568	Immunity Regulation by Supramolecular Assemblies. **2020**, 1655-1664	
567	[Age-related changes in the immune system and cognitive disorders in vascular dementia and Alzheimer's disease]. **2020**, 120, 154-159	0
566	Intermolecular Interactions and Self-Assembly of Peptide-Based Nanomaterials Against Human Pathogenic Bacteria. **2020**, 311-360	
565	Microbial Options Against Antibiotic-Resistant Bacteria. **2020**, 233-247	
564	Venom peptides in association with standard drugs: a novel strategy for combating antibiotic resistance - an overview. **2020**, 26, e20200001	1
563	Controlling the Growth of the Skin Commensal Staphylococcus epidermidis Using D-Alanine Auxotrophy.	
562	Antimicrobial peptide induced-stress rendersStaphylococcus aureussusceptible to toxic nucleoside analogues.	
561	Modified Bacterial Lipids Which Alter Membrane Surface Charge Reduce Binding of Antimicrobial Peptides.	
560	Charged Gram-positive species sequester and decrease the potency of pediocin PA-1 in mixed microbial settings.	

559	Mass Spectrometry (Imaging) for Detection and Identification of Cyclic AMPs: Focus on Human Neutrophil Peptides (HNPs).	
558	PeaT1 and PeBC1 Microbial Protein Elicitors Enhanced Resistance against Sulzer in Chili L. **2021**, 9,	3
557	Rational Designed Hybrid Peptides Show up to a 6-fold Increase in Antimicrobial Activity and Demonstrate Different Ultrastructural Changes as the Parental Peptides measured by BioSAXS.	
556	The Silkworm as a Source of Natural Antimicrobial Preparations: Efficacy on Various Bacterial Strains. **2021**, 10,	0
555	Antimicrobial Peptides With Antibiofilm Activity Against. **2021**, 12, 753874	1
554	The ability of carbon nanoparticles to increase transmembrane current of cations coincides with impaired synaptic neurotransmission. **2022**, 1864, 183817	1
553	In vitro activity of the antimicrobial peptides h-Lf1-11, MSI-78, LL-37, fengycin 2B, and magainin-2 against clinically important bacteria. **2021**, 1	
552	Cationic Peptides and Their Cu(II) and Ni(II) Complexes: Coordination and Biological Characteristics. **2021**, 22,	2
551	Structural and functional swapping of amyloidogenic and antimicrobial peptides: Redefining the role of amyloidogenic propensity in disease and host defense. **2021**, e3378	0
550	Hydrogel vectors based on peptide and peptide-like substances: For treating bacterial infections and promoting wound healing. **2021**, 25, 101224	7
549	Trans-ethnic analysis of the human leukocyte antigen region for ulcerative colitis reveals shared but also ethnicity-specific disease associations.	1
548	A New Structure-Activity Relationship of Linear Cationic □helical Antimicrobial Peptides. **2008**, 167-170	2
547	Bacterial surface properties influence the activity of the TAT-RasGAP317-326 antimicrobial peptide.	
546	Building Synthetic Transmembrane Peptide Pores. **2021**, 2186, 19-32	0
545	Ceragenins and antimicrobial peptides kill bacteria through distinct mechanisms.	1
544	PspA adopts an ESCRT-III-like fold and remodels bacterial membranes.	1
543	A joint reaction coordinate for computing the free energy landscape of pore nucleation and pore expansion in lipid membranes.	
542	Design and Creation of Functional Membrane-Interacting Peptides. **2020**, 78, 1058-1065	1

541	Detection and extraction of anti-Listerial compounds from Calligonum comosum, a medicinal plant from arid regions of Tunisia. **2011**, 8, 322-7	3
540	Innate and procured immunity inside the digestive tract of the medicinal leech. **2011**, 8, 173-178	5
539	N-terminal moiety of Antimicrobial peptide Ltc1-k increases its toxicity for eukaryotic cells. **2011**, 3, 68-78	1
538	Antifungal indole and pyrrolidine-2,4-Dione derivative peptidomimetic lead design based on in silico study of bioactive Peptide families. **2013**, 5, 42-53	3
537	Effects of antimicrobial peptides on Staphylococcus aureus growth and biofilm formation in vitro following isolation from implant-associated infections. **2015**, 8, 1546-51	6
536	The antimicrobial peptides and their potential clinical applications. **2019**, 11, 3919-3931	213
535	Design of Novel Amphipathic □Helical Antimicrobial Peptides with No Toxicity as Therapeutics against the Antibiotic-Resistant Gram-Negative Bacterial Pathogen,. **2019**, 2,	
534	Research Progress on Antibacterial Application with Nucleic Acid and Nucleic Acid Materials. **2021**, 167-190	
533	Efficacy and Safety of PL-5 (Peceleganan) Spray for Wound Infections.	
532	In vitro and in vivo antifungal activity of two peptides with the same composition and different distribution. **2021**, 252, 109243	0
531	Design principles for bacteria-responsive antimicrobial nanomaterials. **2022**, 23, 100606	2
530	One step synthesis of an amino acid derived particles, poly(L-Arginine) and its biomedical application.	1
529	Amino Acid-Functionalized MoS2 Quantum Dots for Selective Antibacterial Activity.	3
528	Antimicrobial peptides as promising drugs for treatment of primary viral pneumonia. **2021**, 11, 837-852	1
527	Experimental and simulation studies reveal mechanism of action of human defensin derivatives. **2021**, 1864, 183824	0
526	Short Peptides and Their Mimetics as Potent Antibacterial Agents and Antibiotic Adjuvants. **2021**,	0
525	Rational Design of Self-Assembled Mitochondria-Targeting Lytic Peptide Conjugates with Enhanced Tumor Selectivity. **2021**,	0
524	Selective concentration of antimicrobial peptides to heat-treated porous silica gel using adsorption/desorption. **2021**, 133, 161-161	

523	HATMSC Secreted Factors in the Hydrogel as a Potential Treatment for Chronic Wounds-In Vitro Study. **2021**, 22,	2
522	The interaction among gut microbes, the intestinal barrier and short chain fatty acids.. **2022**, 9, 159-174	6
521	A multiplexed cell-free assay to screen for antimicrobial peptides in double emulsion droplets.	1
520	An atypical Phytophthora sojae RxLR effector manipulates host vesicle trafficking to promote infection. **2021**, 17, e1010104	0
519	AI4AMP: an Antimicrobial Peptide Predictor Using Physicochemical Property-Based Encoding Method and Deep Learning. **2021**, e0029921	3
518	Royal Jelly Proteins and Their Derived Peptides: Preparation, Properties, and Biological Activities. **2021**, 69, 14415-14427	0
517	Enantioselectivity of Chiral Derivatives of Xanthones in Virulence Effects of Resistant Bacteria. **2021**, 14,	0
516	Expression, Purification and Characterization of a Novel Hybrid Peptide CLP with Excellent Antibacterial Activity. **2021**, 26,	0
515	Conformation and membrane interaction studies of the potent antimicrobial and anticancer peptide palustrin-Ca. **2021**, 11, 22468	1
514	Antibacterial peptide RP557 increases the antibiotic sensitivity of Mycobacterium abscessus by inhibiting biofilm formation. **2021**, 807, 151855	3
513	Rational Designed Hybrid Peptides Show up to a 6-Fold Increase in Antimicrobial Activity and Demonstrate Different Ultrastructural Changes as the Parental Peptides Measured by BioSAXS.. **2021**, 12, 769739	1
512	A Comparison of Antibacterial Properties of Tachyplesin, Thanatin, and Enterocin P on Enterococcus faecalis.. **2022**, 7, 67-72	
511	Analysis of the Effects of Antifungal Peptide P-1 from Bacillus Pumilus HN-10 On Energy Metabolism of Trichothecium Roseum.	
510	Antimicrobial peptides, conventional antibiotics, and their synergistic utility for the treatment of drug-resistant infections.. **2022**,	11
509	Small Amphiphilic Peptides: Activity Against a Broad Range of Drug-Resistant Bacteria and Structural Insight into Membranolytic Properties.. **2022**,	4
508	A Review of Antimicrobial Peptides: Its Function, Mode of Action and Therapeutic Potential. **2022**, 28, 1	4
507	A Multiplexed Cell-Free Assay to Screen for Antimicrobial Peptides in Double Emulsion Droplets.. **2022**,	1
506	Antimicrobial and anti-inflammatory activities of the neuropeptide antagonist SPA.. **2022**, e3402	

505	A Multiplexed Cell-Free Assay to Screen for Antimicrobial Peptides in Double Emulsion Droplets.	
504	Multidrug resistance crisis during COVID-19 pandemic: Role of anti-microbial peptides as next-generation therapeutics.. **2021**, 211, 112303	2
503	Recent advances in nature-inspired antifouling membranes for water purification. **2022**, 432, 134425	4
502	Nanopeptide CMCS-20H loaded by carboxymethyl chitosan remarkably enhances protective efficacy against bacterial infection in fish.. **2022**, 201, 226-241	0
501	Antimicrobial peptides: Promising alternatives over conventional capture ligands for biosensor-based detection of pathogenic bacteria.. **2021**, 55, 107901	3
500	Voices in audiodescription: Neutrality and pleasantness. **2021**, 7, e076	0
499	Effects of Dietary Antimicrobial Peptides on Intestinal Morphology, Antioxidant Status, Immune Responses, Microbiota and Pathogen Disease Resistance in Grass Carp Ctenopharyngodon Idellus.	
498	Potent bactericidal activity of reduced cryptdin-4 derived from its hydrophobicity and mediated by bacterial membrane disruption.. **2022**, 54, 289	0
497	Ceragenins and Antimicrobial Peptides Kill Bacteria through Distinct Mechanisms.. **2022**, e0272621	3
496	Isolation and Characterization of Antimicrobial Peptides Isolated from Fagonia bruguieri.. **2022**, 1	1
495	A Peptide from Budding Yeast GAPDH Serves as a Promising Antifungal against Cryptococcus neoformans.. **2022**, e0082621	1
494	Bio-inspired antibacterial coatings on urinary stents for encrustation prevention.. **2022**,	3
493	Antimicrobial peptides properties beyond growth inhibition and bacterial killing.. **2022**, 10, e12667	0
492	Low-Molecular-Weight Polylysines with Excellent Antibacterial Properties and Low Hemolysis.. **2022**,	1
491	Impedance sensing of antibiotic interactions with a pathogenic E. coli outer membrane supported bilayer.. **2022**, 204, 114045	2
490	screening and validation of phytocompounds as multidrug efflux pump inhibitor against .. **2022**, 1-13	0
489	Bacteriocins and antimicrobial peptides as an alternative to antibiotics. **2022**, 327-346	0
488	Recombinant HNP-1 Produced by Escherichia coli Triggers Bacterial Apoptosis and Exhibits Antibacterial Activity against Drug-Resistant Bacteria.. **2022**, e0086021	0

487	Effects of dietary antimicrobial peptides on intestinal morphology, antioxidant status, immune responses, microbiota and pathogen disease resistance in grass carp Ctenopharyngodon idellus.. **2022**, 105386	1
486	Potential of Mesenchymal Stem Cell-Derived Exosomes as a Novel Treatment for Female Infertility Caused by Bacterial Infections.. **2021**, 12, 785649	0
485	Star-like poly(peptoid)s with selective antibacterial activity. **2022**, 13, 600-612	2
484	Therapeutic Potential of Synthetic Human -Defensin 1 Short Motif Pep-B on Lipopolysaccharide-Stimulated Human Dental Pulp Stem Cells.. **2022**, 2022, 6141967	
483	Inherent and Composite Hydrogels as Promising Materials to Limit Antimicrobial Resistance.. **2022**, 8,	5
482	Multitalented Synthetic Antimicrobial Peptides and Their Antibacterial, Antifungal and Antiviral Mechanisms.. **2022**, 23,	8
481	Doderlin: Isolation and Characterization of a Broad-Spectrum Antimicrobial Peptide from Lactobacillus acidophilus.	0
480	Antimicrobial Peptides and Macromolecules for Combating Microbial Infections: From Agents to Interfaces.. **2022**,	6
479	RW-BP100-4D, a Promising Antimicrobial Candidate With Broad-Spectrum Bactericidal Activity.. **2021**, 12, 815980	1
478	Secondary Structure Transitions for a Family of Amyloidogenic, Antimicrobial Uperin 3 Peptides in Contact with Sodium Dodecyl Sulfate.. **2022**, 87, e202100408	1
477	A molecular dynamics study of antimicrobial peptide translocation across the outer membrane of Gram-negative bacteria.	0
476	Defensin-lipid interactions in membrane targeting: mechanisms of action and opportunities for the development of antimicrobial and anticancer therapeutics.. **2022**,	0
475	Real-time monitoring the staged interactions between cationic surfactants and a phospholipid bilayer membrane.. **2022**,	
474	pH -sensitive polyion nanocomplexes for antimicrobial peptide delivery.	
473	Anti-lipopolysaccharide factors regulated by Stat, Dorsal, and Relish are involved in anti-WSSV innate immune defense in Macrobrachium nipponense.. **2022**, 121, 342-350	1
472	What different physical techniques can disclose about disruptions on membrane structure caused by the antimicrobial peptide Hylin a1 and a more positively charged analogue.. **2022**, 105173	1
471	Amino acid-based polymeric gel network and its application in different fields. **2022**, 99, 100366	0
470	In vitro and in vivo antibacterial activity of a lysine-rich scorpion peptide derivative.. **2022**, 209, 1-9	0

469	Molecular characterization of HEPCIDIN-1 (HAMP1) gene in red-bellied pacu (Piaractus brachypomus).. **2022**, 130, 104353	
468	Selective strategies for antibacterial regulation of nanomaterials.. **2022**, 12, 4852-4864	2
467	Simulations reveal that antimicrobial BP100 induces local membrane thinning, slows lipid dynamics and favors water penetration.. **2022**, 12, 4573-4588	0
466	Exploring synergy and its role in antimicrobial peptide biology.. **2022**, 663, 99-130	2
465	Revealing AMP mechanisms of action through resistance evolution and quantitative proteomics.. **2022**, 663, 259-271	
464	Antibacterial Copolypeptoids with Potent Activity against Drug Resistant Bacteria and Biofilms, Excellent Stability, and Recycling Property.. **2022**, e2106936	3
463	Microbial diversity of garden snail mucus.. **2022**, 11, e1263	1
462	Peptide-Based Sensing, Logic Computing, and Information Security on the Antimonene Platform.. **2022**,	0
461	Design of Membrane Active Peptides Considering Multi-Objective Optimization for Biomedical Application.. **2022**, 12,	
460	Anticorrosive and antibacterial smart integrated strategy for biomedical magnesium. **2022**,	0
459	Progress in Alternative Strategies to Combat Antimicrobial Resistance: Focus on Antibiotics.. **2022**, 11,	15
458	The Role of the Two-Component System PhoP/PhoQ in Intrinsic Resistance of to Polymyxin.. **2022**, 13, 758571	1
457	Multifunctional Photoactive Hydrogels for Wound Healing Acceleration. **2021**,	46
456	Strategies for Antimicrobial Peptides Immobilization on Surfaces to Prevent Biofilm Growth on Biomedical Devices.. **2021**, 11,	3
455	Antibacterial properties of human beta defensin-3 derivative: CHRG01. **2018**, 43, 707-715	3
454	Antibacterial and cytotoxic properties of star-shaped quaternary ammonium-functionalized polymers with different pendant groups. **2022**, 13, 1763-1773	1
453	A review on antimicrobial peptides databases and the computational tools.. **2022**, 2022,	7
452	Recent advances in the design of antimicrobial peptide conjugates.. **2022**,	6

451	One-step synthesis of quaternized silica nanoparticles with bacterial adhesion and aggregation properties for effective antibacterial and antibiofilm treatments.. **2022**,	1
450	Assembly of alpha-helical transmembrane pores through an intermediate state.. **2022**,	0
449	Mucosal Immunity in Fish. **2022**, 387-443	1
448	Lipid Packing in Cell Membrane and Intracellular Delivery. **2022**, 22, 115-120	
447	A Prospective Diversity of Antibacterial Small Peptidomimetic and Quorum Sensing Mediated Drug: A Review. **2022**, 7,	
446	Biosynthesis, bioactivity, biotoxicity and applications of antimicrobial peptides for human health. **2022**,	0
445	Use of Defensins to Develop Eco-Friendly Alternatives to Synthetic Fungicides to Control Phytopathogenic Fungi and Their Mycotoxins.. **2022**, 8,	0
444	Ti-MOF-based biosafety materials for efficient and long-life disinfection via synergistic photodynamic and photothermal effects. **2022**,	0
443	Expression of the Antimicrobial Peptide Piscidin 1 and Neuropeptides in Fish Gill and Skin: A Potential Participation in Neuro-Immune Interaction.. **2022**, 20,	6
442	Real-Time Fluorescence Microscopy on Living Sheds New Light on the Antibacterial Effects of the King Penguin -Defensin AvBD103b.. **2022**, 23,	0
441	Use of nCounter mRNA profiling to identify at-arrival gene expression patterns for predicting bovine respiratory disease in beef cattle.. **2022**, 18, 77	1
440	Antioxidant and Antimicrobial Peptides Derived from Food Proteins.. **2022**, 27,	4
439	Elastase-Activated Antimicrobial Peptide for a Safer Pulmonary Treatment of Cystic Fibrosis Infections.. **2022**, 11,	1
438	iTRAQ-Based Quantitative Proteomic Analysis of Antibacterial Mechanism of Milk-Derived Peptide BCp12 against .. **2022**, 11,	0
437	An Antimicrobial Peptide-Mimetic Methacrylate Random Copolymer Induces Domain Formation in a Model Bacterial Membrane.. **2022**, 1	0
436	Design and Characterization of Myristoylated and Non-Myristoylated Peptides Effective against spp. Clinical Isolates.. **2022**, 23,	1
435	Targeting Multidrug Resistance With Antimicrobial Peptide-Decorated Nanoparticles and Polymers.. **2022**, 13, 831655	1
434	Bioactive Peptides and Proteins from Wasp Venoms.. **2022**, 12,	1

433	Spermine-Conjugated Short Proline-Rich Lipopeptides as Broad-Spectrum Intracellular Targeting Antibacterial Agents.. **2022**,	0
432	Present status and future directions of intracanal medicaments.. **2022**,	2
431	Novel Antibacterial Properties of the Human Dental Pulp Multipotent Mesenchymal Stromal Cell (MSC) Secretome.. **2022**,	0
430	Unnatural amino acids: promising implications for the development of new antimicrobial peptides.. **2022**, 1-25	0
429	A hepatic antimicrobial peptide, hepcidin from Indian major carp, Catla catla: molecular identification and functional characterization.. **2022**, 20, 49	1
428	High antimicrobial activity of lactoferricin-expressing Bacillus subtilis strains.. **2022**,	
427	Polyacrylic Acid Nanoplatforms: Antimicrobial, Tissue Engineering, and Cancer Theranostic Applications.. **2022**, 14,	8
426	NMR Structure and Localization of the Host Defense Peptide ThanatinM21F in Zwitterionic Dodecylphosphocholine Micelle: Implications in Antimicrobial and Hemolytic Activity.. **2022**, 1	0
425	Fusarium Wilt of Banana: Current Update and Sustainable Disease Control Using Classical and Essential Oils Approaches. **2022**,	1
424	Pep5-based antitumor peptides containing multifunctional fragments with enhanced activity and synergistic effect.. **2022**, 237, 114320	0
423	Investigations on the Wound Healing Potential of Tilapia Piscidin (TP)2-5 and TP2-6.. **2022**, 20,	0
422	Molecular mechanism underlying the TLR4 antagonistic and antiseptic activities of papiliocin, an insect innate immune response molecule.. **2022**, 119, e2115669119	1
421	Antimicrobial Peptide Mechanisms Studied by Whole-Cell Deuterium NMR.. **2022**, 23,	0
420	Comprehensive transcriptome analysis reveals the effect of feeding rhythm on the immunity and metabolism of Acipenser dabryanus.. **2022**, 122, 276-287	1
419	Induction of defense responses and protection of almond plants against by endotherapy with a bifunctional peptide.. **2022**,	0
418	ABSTRACTS (BY NUMBER). **2022**, 28, S-1-S-654	
417	A critical review of intrinsic and extrinsic antimicrobial properties of insects. **2022**, 122, 40-48	3
416	Enhanced Antibacterial Ability and Bioactivity of Polyetherketoneketone Modified with LL-37.. **2022**,	1

415	Modulation of outer membrane vesicle-based immune responses by cathelicidins.. **2022**,	0
414	Antimicrobial Peptides: Bringing Solution to the Rising Threats of Antimicrobial Resistance in Livestock.. **2022**, 9, 851052	2
413	Catheter-Associated Urinary Tract Infections: Current Challenges and Future Prospects.. **2022**, 14, 109-133	1
412	Gelidiales Are Not Just Agar-Revealing the Antimicrobial Potential of for Skin Disorders.. **2022**, 11,	0
411	Strategies for improving the safety and RNAi efficacy of noncovalent peptide/siRNA nanocomplexes.. **2022**, 302, 102638	0
410	LECT2 Is a Novel Antibacterial Protein in Vertebrates.. **2022**,	0
409	Antimicrobial food packaging integrating polysaccharide-based substrates with green antimicrobial agents: A sustainable path.. **2022**, 155, 111096	4
408	Spent brewer's yeast (Saccharomyces cerevisiae) as a potential source of bioactive peptides: An overview.. **2022**,	1
407	Amphiphilic cyclic peptide [WKR]-Antibiotics combinations as broad-spectrum antimicrobial agents.. **2022**, 235, 114278	1
406	Antimicrobial peptide antibiotics inhibit aerobic denitrification via affecting electron transportation and remolding carbon metabolism.. **2022**, 431, 128616	0
405	Molecular characterization, antibacterial activity and mechanism analyzation of three different piscidins from black rockfish, Sebastes schlegelii.. **2022**, 104394	0
404	Eco-friendly bacteria-killing by nanorods through mechano-puncture with top selectivity.. **2022**, 15, 173-184	1
403	Alternative Treatment Strategies for Secondary Bacterial and Fungal Infections Associated with COVID-19. **2021**, 11, 53	1
402	High-Throughput Manufacturing of Antibacterial Nanofibers by Melt Coextrusion and Post-Processing Surface-Initiated Atom Transfer Radical Polymerization. **2022**, 4, 260-269	2
401	Adaptively evolved human oral actinomyces-sourced defensins show therapeutic potential.. **2021**, e14499	3
400	Antifungal Peptides and Proteins to Control Toxigenic Fungi and Mycotoxin Biosynthesis.. **2021**, 22,	3
399	Natural and Synthetic Halogenated Amino Acids-Structural and Bioactive Features in Antimicrobial Peptides and Peptidomimetics. **2021**, 26,	1
398	Biofunctionalized nano-antimicrobials - progress, prospects and challenges.. **2021**,	0

397	Silver Nanoparticles Functionalized With Antimicrobial Polypeptides: Benefits and Possible Pitfalls of a Novel Anti-infective Tool.. **2021**, 12, 750556	4
396	Repurposing Approved Drugs as Fluoroquinolone Potentiators to Overcome Efflux Pump Resistance in Staphylococcus aureus.. **2021**, 9, e0095121	3
395	Marine Invertebrate Peptides: Antimicrobial Peptides.. **2021**, 12, 785085	2
394	Attachment of Enterohemorrhagic Escherichia coli to Host Cells Reduces O Antigen Chain Length at the Infection Site That Promotes Infection.. **2021**, 12, e0269221	1
393	SÜT VE SÜT ÜRÜNLERÜNDEN ELDE EDÜLEN PEPTÜTLERÜN PATOJEN MÜKROORGANÜZMALAR ÜZERÜNE ANTÜMÜKROBÜYAL ETKÜSÜ	
392	Identification of Antimicrobial Peptides Isolated From the Skin Mucus of African Catfish, (Burchell, 1822).. **2021**, 12, 794631	0
391	Molecular Dynamics Studies on the Bacterial Membrane Pore Formation by Small Molecule Antimicrobial Agents.. **2021**,	1
390	Staphylococcus Biofilm as a Factor of Resistance to Antibacterial Drugs. **2020**, 173-180	
389	Bacterial produce membrane-binding small molecules to regulate horizontal gene transfer in vesicles.	
388	Mussel-Inspired and Bioclickable Peptide Engineered Surface to Combat Thrombosis and Infection.. **2022**, 2022, 9780879	4
387	Atomic-Resolution Structures and Mode of Action of Clinically Relevant Antimicrobial Peptides.. **2022**, 23,	0
386	Antibiotic Resistance among Escherichia coli Isolates, Antimicrobial Peptides and Cell Membrane Disruption to the Control of E. coli Infections.	
385	Animal Models of Femur Head Necrosis for Tissue Engineering and Biomaterials Research.. **2022**,	0
384	Microfluidic One-Pot Digital Droplet FISH Using LNA/DNA Molecular Beacons for Bacteria Detection and Absolute Quantification.. **2022**, 12,	0
383	Strategies employed in the design of antimicrobial peptides with enhanced proteolytic stability.. **2022**, 59, 107962	3
382	Table_1.docx. **2020**,	
381	Data_Sheet_1.docx. **2020**,	
380	Data_Sheet_1.pdf. **2020**,	

379 Image_1.TIF. **2020**,

378 Table_1.pdf. **2020**,

377 Image_1.TIFF. **2020**,

376 Image_2.TIFF. **2020**,

375 Image_3.TIFF. **2020**,

374 Image_4.TIFF. **2020**,

373 Table_1.pdf. **2020**,

372 Table_2.xlsx. **2020**,

371 Table_3.pdf. **2020**,

370 Table_4.pdf. **2020**,

369 Image_1.tif. **2019**,

368 Data_Sheet_1.docx. **2020**,

367 Data_Sheet_1.pdf. **2019**,

366 Table_1.XLSX. **2019**,

365 Table_2.XLS. **2019**,

364 Table_3.XLS. **2019**,

363 Table_4.XLS. **2019**,

362 Data_Sheet_1.docx. **2019**,

361 Data_Sheet_1.pdf. **2020**,

360 Data_Sheet_1.pdf. **2018**,

359 Data_Sheet_2.xlsx. **2018**,

358 Image_1.TIF. **2019**,

357 Image_2.TIF. **2019**,

356 Image_3.tif. **2019**,

355 Image_4.TIF. **2019**,

354 Image_5.TIF. **2019**,

353 Image_6.TIF. **2019**,

352 Data_Sheet_1.docx. **2020**,

351 Data_Sheet_2.docx. **2020**,

350 Table_1.xlsx. **2020**,

349 Data_Sheet_1.DOC. **2020**,

348 Data_Sheet_1.docx. **2020**,

347 Data_Sheet_1.pdf. **2020**,

346 Video_1.AVI. **2020**,

345 Video_2.AVI. **2020**,

344 Video_3.AVI. **2020**,

343 Video_4.AVI. **2020**,

342 Image_1.TIF. **2020**,

341 Image_1.JPEG. **2020**,

340 Image_2.JPEG. **2020**,

339 Image_3.JPEG. **2020**,

338 Image1.PDF. **2018**,

337 Image2.PDF. **2018**,

336 Image3.PDF. **2018**,

335 Table1.DOCX. **2018**,

334 Table2.DOCX. **2018**,

333 Table3.DOCX. **2018**,

332 Image_1.TIFF. **2019**,

331 Image_2.TIFF. **2019**,

330 Image_3.TIFF. **2019**,

329 Image_4.TIFF. **2019**,

328 Image_5.TIFF. **2019**,

327 Table_1.docx. **2019**,

326 Data_Sheet_1.pdf. **2020**,

325	Anisaxins, helical antimicrobial peptides from marine parasites, kill resistant bacteria by lipid extraction and membrane disruption.. **2022**,	1
324	Gram-Selective Antibacterial Activity of Mixed-Charge 2D-MoS2.	3
323	Peptide functionalized nanomaterials as microbial sensors. **2022**, 327-348	
322	Soil Bacillus as Biocontrol Agent: Prospects and Applications. **2022**, 63-89	
321	Cholesterol stiffening of lipid membranes and drug interactions: Insights from neutron spin echo and deuterium NMR spectroscopy. **2022**, 771-796	
320	Constructing an Anti-S. Mutans and Mineralizing Membrane by Combination Self-Assembled Lysozyme with Antimicrobial Peptide.	
319	Optimisation of antioxidant, antimicrobial and metal-chelating properties of bioactive peptides from blood wastes by enzymatic hydrolysis. **2022**,	0
318	Fettsäurebestimmung verschiedener Bakterienstämme vor und nach Behandlung mit antibakteriellen zufälligen Peptidmischungen (RPMs). **2022**, 76,	
317	In Vitro Pharmacodynamics and Bactericidal Mechanism of Fungal Defensin-Derived Peptides NZX and P2 against Streptococcus agalactiae. **2022**, 10, 881	0
316	Biosynthesis, Molecular Regulation, and Application of Bacilysin Produced by Bacillus Species. **2022**, 12, 397	1
315	Isolation of Potato Endophytes and Screening of Antimicrobial Genes.. **2022**, 23,	1
314	Peptides with Therapeutic Potential against Acinetobacter baumanii Infections.	
313	Control of vibriosis in shrimp through the management of the microbiota and the immune system. **2022**, 7, 1	
312	Evolving and assembling to pierce through: Evolutionary and Structural Aspects of Antimicrobial Peptides. **2022**,	0
311	Loading of Polydimethylsiloxane with a Human ApoB-Derived Antimicrobial Peptide to Prevent Bacterial Infections.. **2022**, 23,	2
310	Exploring the impact of the recombinant Escherichia coli strain on defensins antimicrobial activity: BL21 versus Origami strain.. **2022**, 21, 77	1
309	Cottonseed feedstock as a source of plant-based protein and bioactive peptides: Evidence based on biofunctionalities and industrial applications. **2022**, 107776	1
308	In vitro and in vivo Activity of Phibilin Against Candida albicans. **2022**, 13,	1

307	Synergistic antibacterial effects of low-intensity ultrasound and peptide LCMHC against Staphylococcus aureus. **2022**, 109713	0
306	New strategy for the design, production and pre-purification of chimeric peptide with immunomodulatory activity in Salmosalar.. **2022**, 125, 120-127	0
305	Cooperative antimicrobial action of melittin on lipid membranes: A coarse-grained molecular dynamics study.. **2022**, 1864, 183955	0
304	Comparative analysis of bactericidal properties of synthetic peptides from the active center of GM-CSF - ZP2 against different gram-negative bacteria. **2021**, 24, 221-228	
303	Influence of the Polysaccharide Capsule on the Bactericidal Activity of Indolicidin on Streptococcus pneumoniae. **2022**, 13,	
302	Amyloidogenic Peptides: New Class of Antimicrobial Peptides with the Novel Mechanism of Activity. **2022**, 23, 5463	1
301	Sensitivity of archival and clinical enterobacteria strains to synthetic GM-CSF active center ZP2 peptide. **2020**, 23, 403-410	1
300	Non-Thermal Technologies Combined with Antimicrobial Peptides as Methods for Microbial Inactivation: A Review. **2022**, 10, 995	1
299	Improving bactericidal performance of implant composite coatings by synergism between Melittin and tetracycline. **2022**, 33,	0
298	A novel antimicrobial peptide found in Pelophylax nigromaculatus. **2022**, 20,	0
297	Peptide-coating combating antimicrobial contaminations: a review of covalent immobilization strategies for industrial applications.	1
296	De novo design of peptides that form transmembrane barrel pores killing antibiotic resistant bacteria.	
295	Natural Products as Antibiofilm Agents.	1
294	Ruthenium(II) complexes targeting membrane as biofilm disruptors and resistance breakers in Staphylococcus aureus bacteria. **2022**, 238, 114485	0
293	Discovery of a Novel Antimicrobial Peptide, Temporin-PKE, from the Skin Secretion of Pelophylax kl. esculentus, and Evaluation of Its Structure-Activity Relationships. **2022**, 12, 759	
292	Antimicrobial and Immunoregulatory Activities of TS40, a Derived Peptide of a TFPI-2 Homologue from Black Rockfish (Sebastes schlegelii). **2022**, 20, 353	0
291	Rational Framework for the Design of Trp- and Arg-Rich Peptide Antibiotics Against Multidrug-Resistant Bacteria. **2022**, 13,	
290	Antimicrobial Peptide Analogs From Scorpions: Modifications and Structure-Activity. **2022**, 9,	

289	LcCCL28-25, Derived from Piscine Chemokine, Exhibits Antimicrobial Activity against Gram-Negative and Gram-Positive Bacteria In Vitro and In Vivo.	1
288	The Immune System of Marine Organisms as Source for Drugs against Infectious Diseases. **2022**, 20, 363	
287	Assessing the Activity of Antimicrobial Peptides Against Common Marine Bacteria Located in Rotifer (Brachionus plicatilis) Cultures.	
286	Antimicrobial Peptides Controlling Resistant Bacteria in Animal Production. **2022**, 13,	2
285	Taming the devil: Antimicrobial peptides for safer TB therapeutics. **2022**, 23,	0
284	An Overview of Antiviral Peptides and Rational Biodesign Considerations. **2022**, 2022, 1-19	1
283	Antifungal Activity of NP20 Derived from Amphioxus Midkine/Pleiotrophin Homolog Against Aspergillus niger and Aspergillus fumigatus.	0
282	Organic/polymeric antibiofilm coatings for surface modification of medical devices. 1-42	
281	Peptaibols: diversity, bioactivity, and biosynthesis. **2022**, 100026	1
280	Picturins and Pictuseptins, two novel antimicrobial peptide families from the skin secretions of the Chachi treefrog, Boana picturata. **2022**, 264, 104633	1
279	Enzymatic poly(gallic acid)-grafted □-lysine inhibits Staphylococcus aureus and Escherichia coli strains with no cytotoxicity for human cells. **2022**, 138, 212960	
278	Cationic antimicrobial peptide NRC-03 induces oral squamous cell carcinoma cell apoptosis via CypD-mPTP axis-mediated mitochondrial oxidative stress. **2022**, 54, 102355	0
277	2000-2019: twenty years of highly influential publications in molecular plant immunity.	0
276	A Type Ib Crustin from Deep-Sea Shrimp Possesses Antimicrobial and Immunomodulatory Activity. **2022**, 23, 6444	
275	The dual interaction of antimicrobial peptides on bacteria and cancer cells; mechanism of action and therapeutic strategies of nanostructures. **2022**, 21,	1
274	The role of bacterial transport systems in the removal of host antimicrobial peptides in Gram-negative bacteria.	0
273	Defensins as a promising class of tick antimicrobial peptides: a scoping review. **2022**, 11,	0
272	A C-type lectin containing two carbohydrate recognition domains participates in the antibacterial response by regulating the JNK pathway and promoting phagocytosis. **2022**,	0

271	Combining Desirable Traits for a Good Biocontrol Strategy against Sclerotinia sclerotiorum. **2022**, 10, 1189	1
270	Constructing an anti-S. mutans and mineralizing membrane by combination self-assembled lysozyme with antimicrobial peptide. **2022**, 110891	0
269	Antimicrobial peptides from freshwater invertebrate species: potential for future applications.	0
268	Intelligent design of polymersomes for antibacterial and anticancer applications.	0
267	Harsh Sensitivity and Mechanism Exploration of an Antibacterial Peptide Extracted from Walnut Oil Residue Derived from Agro-Industrial Waste. **2022**, 70, 7460-7470	0
266	A mini-review: mechanism of antimicrobial action and application of surfactin. **2022**, 38,	4
265	Membrane disruptive action of cationic anti-bacterial peptide B1CTcu3.	0
264	Physiology and structure of pathogenic Escherichia coli pOmpT reveal two substrate-binding sites.	
263	Hyaluronan-colistin conjugates: Synthesis, characterization, and prospects for medical applications. **2022**, 215, 243-252	1
262	Dual function of a bumblebee (Bombus ignitus) serine protease inhibitor that acts as a microbicidal peptide and anti-fibrinolytic venom toxin. **2022**, 135, 104478	0
261	Characterization of novel antimicrobial peptides designed on the basis of amino acid sequence of peptides from egg white hydrolysate. **2022**, 378, 109802	0
260	Loot a burning house: Strategies to enhance the antibacterial activity of antimicrobial peptides. **2022**, 141, 109167	
259	High Selective Performance of Rationally Designed Antimicrobial Peptides Based on Ponericin-W1.	1
258	Polyaspartate-derived synthetic antimicrobial polymer enhances the activity of rifampicin against multidrug-resistant Pseudomonas aeruginosa infections.	
257	Biocide. **2022**, 51-70	
256	Efficiency of Antimicrobial Peptides Against Multidrug-Resistant Staphylococcal Pathogens. 13,	1
255	Small nucleolar RNAs and SNHGs in the intestinal mucosal barrier: Emerging insights and current roles. **2022**,	
254	Secondary Ammonium-Based Hyperbranched Poly(amidoamine) with Excellent Membrane-Active Property for Multidrug-Resistant Bacterial Infection. **2022**, 5, 3384-3395	

253	Guanylated Hyperbranched Polylysines with High In Vitro and In Vivo Antifungal Activity. 2201091	0
252	Antimicrobial Peptides: Mechanism of Action.	
251	Florfenicol-Polyarginine Conjugates Exhibit Promising Antibacterial Activity Against Resistant Strains. 10,	1
250	Stable isotope analysis confirms substantial changes in the fatty acid composition of bacteria treated with antimicrobial random peptide mixtures (RPMs). **2022**, 12,	
249	Optimization of Antibacterial Activity in Tibetan Swine Helix Peptide TP by Site-Directed Mutagenesis. 13,	1
248	Mussel-Inspired Polydopamine-Based Multilayered Coatings for Enhanced Bone Formation. 10,	0
247	Drosophila Innate Immunity Involves Multiple Signaling Pathways and Coordinated Communication Between Different Tissues. 13,	2
246	Vitamin D Levels in Children with Recurrent Acute Tonsillitis in Jordan: A Case-Control Study. **2022**, 19, 8744	0
245	Single-Cell Analysis of the Antimicrobial and Bactericidal Activities of the Antimicrobial Peptide Magainin 2.	0
244	Antimicrobial activity of major royal jelly protein 8 and 9 of honeybee (Apis mellifera) venom. **2022**, 101964	1
243	Facial amphiphilicity index correlating chemical structures with antimicrobial efficacy. **2023**, 20, 519-527	1
242	HostBacterial Interactions: Outcomes of Antimicrobial Peptide Applications. **2022**, 12, 715	0
241	A Series of Novel Bioactive Cyclic Peptides: Synthesis by Head-to-Tail Cyclization Approach, Antimicrobial Activity and Molecular Docking Studies. **2022**, 7,	0
240	Mesenchymal Stem Cell-Derived Antimicrobial Peptides as Potential Anti-Neoplastic Agents: New Insight into Anticancer Mechanisms of Stem Cells and Exosomes. 10,	1
239	Factors affecting production and effectiveness, performance improvement and mechanisms of action of bacteriocins as food preservative. 1-14	
238	In pursuit of next-generation therapeutics: Antimicrobial peptides against superbugs, their sources, mechanism of action, nanotechnology-based delivery, and clinical applications. **2022**, 218, 135-156	4
237	CXCL20a, a bactericidal chemokine, consists of four structural fragments with potent bactericidal activity. **2022**, 561, 738633	0
236	Biocidal Cationic Macromolecules Irrespective of Bacterial Resistance: Our Best Achievements.	0

235	Review of the British Thoracic Society Winter Meeting 2021, 24–26 November 2021. thoraxjnl-2022-219150	
234	PTPAMP: prediction tool for plant-derived antimicrobial peptides.	
233	Antimicrobial peptide: a competent tool for plant disease control in mulberry-a review.	1
232	Targeted Modification and Structure-Activity Study of GL-29, an Analogue of the Antimicrobial Peptide Palustrin-2ISb. **2022**, 11, 1048	1
231	Transmembrane peptide effects on bacterial membrane integrity and organization. **2022**,	
230	Marine Arthropods as a Source of Antimicrobial Peptides. **2022**, 20, 501	1
229	Lysine-Tethered Stable Bicyclic Cationic Antimicrobial Peptide Combats Bacterial Infection in Vivo. **2022**, 65, 10523-10533	
228	Mesenchymal (Stem) Stromal Cells Based as New Therapeutic Alternative in Inflammatory Bowel Disease: Basic Mechanisms, Experimental and Clinical Evidence, and Challenges. **2022**, 23, 8905	0
227	Progress in Antibacterial Hydrogel Dressing. **2022**, 8, 503	6
226	Alternative Antibiotics in Dentistry: Antimicrobial Peptides. **2022**, 14, 1679	3
225	Antibacterial Activity and Mechanism of Action of Whey Protein-β-Polylysine Complexes against Staphylococcus aureus and Bacillus subtilis. **2022**, 11, 2311	1
224	Mussel-Inspired Clickable Antibacterial Peptide Coating on Ureteral Stents for Encrustation Prevention. **2022**, 14, 36473-36486	4
223	Membranolytic Mechanism of Amphiphilic Antimicrobial β-Stranded [KL]n Peptides. **2022**, 10, 2071	
222	Peptide-Based Hydrogels: New Materials for Biosensing and Biomedical Applications. **2022**, 15, 5871	5
221	Generation of cost-effective MXene@polydopamine-decorated chitosan nanofibrous wound dressing for promoting wound healing. **2022**, 213055	2
220	Extraction and characterization of cyclic lipopeptides with antifungal and antioxidant activities from Bacillus amyloliquefaciens.	0
219	A Molecular Dynamics Study of Antimicrobial Peptide Interactions with the Lipopolysaccharides of the ´Outer´Bacterial Membrane.	2
218	A truncated peptide Spgillcin177–189 derived from mud crab Scylla paramamosain exerting multiple antibacterial activities. 12,	0

217	Identification and characterization of new putative antimicrobial peptides from scorpion Chaerilus tricostatus revealed by in silico analysis and structure modeling. **2022**, 26, 200137	
216	Isolation, identification and characterization of a novel antimicrobial peptide from Moringa oleifera seeds based on affinity adsorption. **2023**, 398, 133923	1
215	Hydrophobic-hydrophilic alternation: an effective pattern to de novo designed antimicrobial peptides. **2022**, 28,	1
214	Dual Roles of Extracellular Histone H3 in Host Defense: Its Differential Regions Responsible for Antimicrobial and Cytotoxic Properties and Their Modes of Action. **2022**, 11, 1240	0
213	Pulmonary surfactant and drug delivery: Vehiculization of a tryptophan-tagged antimicrobial peptide over the air-liquid interfacial highway. **2022**, 180, 33-47	1
212	Recent insights into the role of defensins in diabetic wound healing. **2022**, 155, 113694	0
211	Role of interfacial hydrophobicity in antimicrobial peptide magainin 2-induced nanopore formation. **2022**, 630, 50-56	0
210	Distinct mode of membrane interaction and disintegration by diverse class of antimicrobial peptides. **2022**, 1864, 184047	0
209	Current material engineering strategies to prevent catheter encrustation in urinary tracts. **2022**, 16, 100413	2
208	Identification and functional analysis of histone 1.2-like in red sea bream (Pagrus major). **2023**, 138, 104529	0
207	Puerarin@Chitosan composite for infected bone repair through mimicking the bio-functions of antimicrobial peptides. **2023**, 21, 520-530	0
206	Basic Concepts of Design of Peptide-Based Therapeutics. **2022**, 1-50	0
205	Peptides and antibiotic resistance. **2022**, 417-437	0
204	Core□shell polycationic polyurea pharmadendrimers: new-generation of sustainable broad-spectrum antibiotics and antifungals. **2022**, 10, 5197-5207	2
203	Role of Protease Inhibitors in Recent Trends of Insect Pest Management. **2022**, 271-296	0
202	Influence of cationic groups on the antibacterial behavior of cationic nano-sized hyperbranched polymers to enhance bacteria-infected wound healing. **2022**, 14, 12789-12803	0
201	The Implication of Antimicrobial Peptides Against Bacteria and Their Clinical Aspects. **2022**, 467-498	0
200	Alternatives to Antibiotics in Animal Farming. **2022**, 147-175	0

199	Probing the Functional Interaction Interface of Lipopolysaccharide and Antimicrobial Peptides: A Solution-State NMR Perspective. **2022**, 211-231	0
198	Antibacterial and antioxidant activity of royal jelly collected from geographical regions with different climates in the north of Iran. **2022**, 25, 397-410	0
197	Emergence of antibiotic resistance in gut microbiota and its effect on human health. **2022**, 211-232	0
196	Cationic Amphiphilic Molecules as Bactericidal Agents. **2022**, 277-302	0
195	A water-soluble membrane transporter for biologically relevant cations. **2022**, 12, 27877-27880	1
194	Advancements in antimicrobial nanoscale materials and self-assembling systems.	0
193	Antibiotics That Affect the Membrane and Other Structural Targets. **2022**, 179-202	0
192	Metal oxide nanocomposites in water and wastewater treatment. **2022**, 479-522	0
191	Epinecidin-1, a marine antifungal peptide, inhibits Botrytis cinerea and delays gray mold in postharvest peaches. **2023**, 403, 134419	1
190	Effects of bioactive peptides derived from feather keratin on plasma cholesterol level, lipid oxidation of meat, and performance of broiler chicks. **2022**, 54,	0
189	The action of antimicrobial peptide LL37 is slow but effective against non-growing Escherichia coli cells.	0
188	Marine antifouling behavior of the surfaces modified by dopamine and antibacterial peptide.	1
187	Current and Future Perspectives in the Diagnosis and Management of Helicobacter pylori Infection. **2022**, 11, 5086	1
186	WITHDRAWN: Role of lipopolysaccharide in antimicrobial and cell penetrating peptide membrane interactions probed by deuterium NMR of whole cells. **2022**, 184053	0
185	Cooperativity in Bacterial Membrane Association Controls the Synergistic Activities of Antimicrobial Peptides. **2022**, 126, 7365-7372	0
184	Therapeutic Potential of Antimicrobial Peptide PN5 against Multidrug-Resistant E. coli and Anti-Inflammatory Activity in a Septic Mouse Model.	0
183	Screening of immune-related genes against bacterial infection in Ostrinia furnacalis (Lepidoptera: Crambidae). 119, 388-397	0
182	Selective inhibition of resistant bacterial pathogens using a □-lactamase-activatable antimicrobial peptide with significantly reduced cytotoxicity. **2022**, 107847	0

181	Mansonone G and its derivatives exhibit membrane permeabilizing activities against bacteria. **2022**, 17, e0273614	1
180	Treating Multi-Drug-Resistant Bacterial Infections by Functionalized Nano-Bismuth Sulfide through the Synergy of Immunotherapy and Bacteria-Sensitive Phototherapy. **2022**, 16, 14860-14873	1
179	Simulation Study of the Effect of Antimicrobial Peptide Associations on the Mechanism of Action with Bacterial and Eukaryotic Membranes. **2022**, 12, 891	0
178	Assembly of transmembrane pores from mirror-image peptides. **2022**, 13,	0
177	Expression of cathelicidin, ERK, MyD88, and TLR-9 in the blood of women in the pre-pregnancy, pregnancy, and their infant cord blood. **2022**,	0
176	Characterization of New Defensin Antimicrobial Peptides and Their Expression in Bed Bugs in Response to Bacterial Ingestion and Injection. **2022**, 23, 11505	0
175	Antibacterial and Antifungal Properties of a Novel Antimicrobial Peptide GK-19 and Its Application in Skin and Soft Tissue Infections Induced by MRSA or Candida albicans. **2022**, 14, 1937	0
174	Role of lipopolysaccharide in antimicrobial and cell penetrating peptide membrane interactions probed by deuterium NMR of whole cells. **2022**, 100057	0
173	Effect of splenic transfer factor on the development of intestinal mucosal barrier in laying hens.	0
172	Organizations of melittin peptides after spontaneous penetration into cell membranes. **2022**,	0
171	Anticancer peptides mechanisms, simple and complex. **2022**, 110194	1
170	Elucidating the role of multivalency, shape, size and functional group density on antibacterial activity of diversified supramolecular nanostructures enabled by templated assembly.	0
169	Inhibition and eradication of bacterial biofilm using polymeric materials.	0
168	Recent Advances in Pathogenic Bacteria Detection with Antimicrobial Peptide as Recognition Element. **2022**, 37, 83-92	0
167	Chicken β-defensin-1 peptide as a candidate anticoccidial agent in broiler chickens. 1-18	0
166	Antimicrobial Peptides: Mechanisms of Action, Antimicrobial Effects and Clinical Applications. **2022**, 11, 1417	3
165	Effect of Supplementation with Organic Selenium or Turmeric and Rosemary Mixture on Beta-Defensin Content in Goat Milk. **2022**, 12, 2948	0
164	Allelic diversity uncovers protein domains contributing to the emergence of antimicrobial resistance.	0

163	Engineering Antibacterial Activities and Biocompatibility of Hyperbranched Lysine-based Random Copolymers.	0
162	Hydrophobicity Determines the Bacterial Killing Rate of -Helical Antimicrobial Peptides and Influences the Bacterial Resistance Development.	2
161	Soluble mediators in the function of the epidermal-immune-neuro unit in the skin. 13,	2
160	Peptides Isolated from Amphibian Skin Secretions with Emphasis on Antimicrobial Peptides. **2022**, 14, 722	1
159	Antimicrobial Activity of Apidermin 2 from the Honeybee Apis mellifera. **2022**, 13, 958	0
158	Antimicrobial Peptides Based on Bacterial S1 Protein Sequences as a Potential Alternative to Antibiotics. **2022**, 18, 84-89	0
157	Doderlin: Isolation and Characterization of a Broad-Spectrum Antimicrobial Peptide from Lactobacillus acidophilus. **2022**, 103995	0
156	The Role of Antimicrobial Peptides (AMPs) in Aquaculture Farming. **2022**, 215-234	0
155	In silicocharacterization of cysteine-stabilized -defensins from neglected unicellular microeukaryotes.	0
154	Hydrophobicity of Cholic Acid-Derived Amphiphiles Dictates the Antimicrobial Specificity.	0
153	The antimicrobial peptide Magainin-2 interacts with BamA impairing folding of E. coli membrane proteins. 10,	0
152	Recent Progress in the Discovery and Design of Antimicrobial Peptides Using Traditional Machine Learning and Deep Learning. **2022**, 11, 1451	0
151	Antimicrobial peptide hepcidin contributes to restoration of the intestinal flora after Aeromonas hydrophila infection in Acrossocheilus fasciatus. **2023**, 263, 109486	0
150	Comparaci de la eficiencia de transformaci entre diferentes cepas de E. coli. **2019**, 13, 112-120	0
149	Self-Assembled Nanomaterials. **2022**, 95-113	0
148	Membrane-Binding Biomolecules Influence the Rate of Vesicle Exchange between Bacteria.	0
147	Machine learning-guided directed evolution for the development of small-molecule antibiotics originating from antimicrobial peptides.	0
146	Marine Antimicrobial Peptides-Based Strategies for Tackling Bacterial Biofilm and Biofouling Challenges. **2022**, 27, 7546	0

145	Expanding the genomic encyclopedia of Actinobacteria with 824 isolate reference genomes. **2022**, 100213	0
144	Design of Antimicrobial Peptides with Cell-Selective Activity and Membrane-Acting Mechanism against Drug-Resistant Bacteria. **2022**, 11, 1619	1
143	A Membrane Curvature Modulated Lipopeptide to Broadly Combat Multidrug-Resistant Bacterial Pneumonia with Low Resistance Risk.	0
142	Deciphering Structure-Function Relationship Unveils Salt-Resistant Mode of Action of a Potent MRSA-Inhibiting Antimicrobial Peptide, RR14.	0
141	Targeting Vancomycin-Resistant Enterococci (VRE) Infections and Van Operon-Mediated Drug Resistance Using Dimeric Cholic Acid Peptide Conjugates.	0
140	Milk-Derived Antimicrobial Peptides: Overview, Applications, and Future Perspectives.	2
139	Target-AMP: Computational prediction of antimicrobial peptides by coupling sequential information with evolutionary profile. **2022**, 106311	1
138	Combined transcriptomic and metabolomic analysis of Salmonella in the presence or absence of PhoP PhoQ system under low Mg2+ conditions. **2022**, 18,	0
137	Purification and characterization of bacteriocin produced by a strain of Lacticaseibacillus rhamnosus ZFM216. 13,	0
136	Rationally Designed Minimal Bioactive Domains of AS-48 Bacteriocin Homologs Possess Potent Antileishmanial Properties.	0
135	Molecular Insights into the Mode of Action of Antibacterial Peptides Derived from Chicken Plasma Hydrolysates. **2022**, 11, 3564	0
134	Antibacterial activity and immunomodulatory role of a proline-rich antimicrobial peptide SpPR-AMP1 against Vibrio campbellii infection in shrimp Litopenaeus vannamei. **2023**, 132, 108479	1
133	Protein-mimetic peptoid nanoarchitectures for pathogen recognition and neutralization.	0
132	Proteoid biodynamers for safe mRNA transfection via pH-responsive nanorods enabling endosomal escape. **2023**, 353, 915-929	0
131	Fluorine-containing amphiphilic quaternary ammonium salts for the suppression of Banana fusarium wilt. **2023**, 182, 105488	0
130	Advancements, challenges and future perspectives on peptide-based drugs: Focus on antimicrobial peptides. **2023**, 181, 106363	1
129	Hyaluronan-cecropin B interactions studied by ultrasound velocimetry and isothermal titration calorimetry. **2023**, 227, 786-794	0
128	Anticryptococcal activity and mechanistic investigation of histidine-rich short peptides. **2023**, 1276, 134813	0

127	Silver Halide-Based Nanomaterials in Biomedical Applications and Biosensing Diagnostics. **2022**, 17,	0
126	Aging and Mesenchymal Stem Cells: Basic Concepts, Challenges and Strategies. **2022**, 11, 1678	0
125	Antimicrobial Nanostructured Assemblies with Extremely Low Toxicity and Potent Activity to Eradicate Staphylococcus Aureus Biofilms. 2204039	0
124	Bioactive Peptides against Human Apicomplexan Parasites. **2022**, 11, 1658	0
123	Intramembrane Nanoaggregates of Antimicrobial Peptides Play a Vital Role in Bacterial Killing. 2204428	0
122	Glycosylation of the antimicrobial peptide LL-III: Effects on membrane perturbation, protease stability, and biological activity.	0
121	Designing double-site lipidated peptide amphiphiles as potent antimicrobial biomaterials to combat multidrug-resistant bacteria. 13,	1
120	Sustainable bio-based antimicrobials derived from fatty acids: Synthesis, safety, and efficacy. 1-13	0
119	Nanoformulation of Peptides for Pharmaceutical Applications: In Vitro and In Vivo Perspectives. **2022**, 12, 12777	0
118	Purification and Characterization of Novel Anti-MRSA Peptides Produced by Brevibacillus sp. SPR-20. **2022**, 27, 8452	0
117	Noncovalent Bile Acid Oligomers as Facial Amphiphilic Antimicrobials.	0
116	A conjugate of chlorin e6 and cationic amphipathic peptoid: a dual antimicrobial and anticancer photodynamic therapy agent.	0
115	Antimicrobial peptide magainin 2-induced rupture of single giant unilamellar vesicles comprising E. coli polar lipids. **2022**, 184112	0
114	Artificial peptides to induce membrane denaturation and disruption and modulate membrane composition and fusion.	0
113	A Series of Dipeptide Derivatives Containing (S)-5-Oxo-pyrrolidine-2-carboxilic Acid Conjugates: Design, Solid-Phase Peptide Synthesis, in vitro Biological Evolution, and Molecular Docking Studies. **2022**, 7,	0
112	Facially Amphiphilic Skeleton-Derived Antibacterial Cationic Dendrimers.	0
111	Investigation of d-Amino Acid-Based Surfactants and Nanocomposites with Gold and Silica Nanoparticles as against Multidrug-Resistant Bacteria Agents. **2022**, 7, 46146-46155	0
110	Mutation-driven evolution of antibacterial function in an ancestral antifungal scaffold: Significance for peptide engineering. 13,	0

109	Peptide hydrogel based sponge patch for wound infection treatment. 10,	0
108	Temperature-dependent re-alignment of the short multifunctional peptide BP100 in membranes revealed by solid-state NMR and molecular dynamics simulations.	0
107	Peptide Structure: Electrophysiological Analysis, Nuclear Magnetic Resonance Analysis, and Molecular Dynamics Simulation of Direct Penetration of Cell-Penetrating Peptides through Bilayer Lipid Membranes. **2023**, 109-140	0
106	ADMET profiling and molecular docking of potential antimicrobial peptides previously isolated from African catfish, Clarias gariepinus. 9,	0
105	Bactericidal Properties of Proline-Rich Aedes aegypti Trypsin Modulating Oostatic Factor (AeaTMOF). **2023**, 13, 19	0
104	Surface-attached Polymer Networks Made from Cationic Poly(diitaconates): Synthesis, Surface Characterization, and Bioactivity. 2200323	0
103	Pseudomonas aeruginosa: Infections, Animal Modeling, and Therapeutics. **2023**, 12, 199	2
102	Synthetic Biology Latest Trends in Antimicrobial Resistance and Biofilm.	0
101	How do Antimicrobial Peptides Disrupt the Lipopolysaccharide Membrane Leaflet of Gram-Negative Bacteria?. **2023**,	0
100	Enhancing antibacterial and anticorrosion properties of 304 stainless steel surfaces: a multi-modification approach based on DA/PEI/SiO2/AMPs.	0
99	Combined Use of Antimicrobial Peptides with Antiseptics against Multidrug-Resistant Bacteria: Pros and Cons. **2023**, 15, 291	1
98	Antimicrobial Spectrum of Activity and Mechanism of Action of Linear Alpha-Helical Peptides Inspired by Shrimp Anti-Lipopolysaccharide Factors. **2023**, 13, 150	2
97	Coastal Sediments of La Paz Bay BCS: Bacteria Reserve with Biotechnological Potential. **2023**, 221-246	0
96	Evaluation of the Synthetic Multifunctional Peptide Hp-MAP3 Derivative of Temporin-PTa. **2023**, 15, 42	0
95	Airway microbiome-immune crosstalk in chronic obstructive pulmonary disease. 13,	0
94	Yeast Expressed Hybrid Peptide CLP Abridged Pro-Inflammatory Cytokine Levels by Endotoxin Neutralization. **2023**, 11, 131	0
93	A review of potential antibacterial activities of nisin against Listeria monocytogenes: the combined use of nisin shows more advantages than single use. **2023**, 164, 112363	2
92	A Novel Antimicrobial Peptide Sp-LECin with Broad-Spectrum Antimicrobial Activity and Anti-Pseudomonas aeruginosa Infection in Zebrafish. **2023**, 24, 267	2

91	Structure-Based Rational Design of Small α-Helical Peptides with Broad-Spectrum Activity against Multidrug-Resistant Pathogens. **2023**, 66, 855-874	0
90	Re-Examining Interaction between Antimicrobial Peptide Aurein 1.2 and Model Cell Membranes via SFG. **2023**, 39, 690-699	0
89	Insights into the Antibacterial Properties of Complement Peptides C3a, C4a, and C5a across Vertebrates. **2022**, 209, 2330-2340	0
88	Specific Focus on Antifungal Peptides against Azole Resistant Aspergillus fumigatus: Current Status, Challenges, and Future Perspectives. **2023**, 9, 42	0
87	Discovery of Amphiphilic Xanthohumol Derivatives as Membrane-Targeting Antimicrobials against Methicillin-Resistant Staphylococcus aureus. **2023**, 66, 962-975	0
86	Helicobacter pylori Infection: Current Status and Future Prospects on Diagnostic, Therapeutic and Control Challenges. **2023**, 12, 191	0
85	Changes in the expression of antimicrobial peptide genes in poultry under the influence of glyphosate and probiotic. **2023**, 28-34	0
84	Surrogate Based Genetic Algorithm Method for Efficient Identification of Low-Energy Peptide Structures.	0
83	Discovery of structural and functional transition sites for membrane-penetrating activity of sheep myeloid antimicrobial peptide-18. **2023**, 13,	0
82	Lateral membrane organization as target of an antimicrobial peptidomimetic compound.	0
81	Antimicrobial peptides from marine animals: Sources, structures, mechanisms and the potential for drug development. 9,	1
80	Recent advances and challenges in peptide drug development. **2023**, 297-310	0
79	Evaluation of oilseed proteins as precursors of antimicrobial peptides using bioinformatics method.	0
78	Flourishing Antibacterial Strategies for Osteomyelitis Therapy. 2206154	0
77	Antimicrobial Peptides, An Alternative Antimicrobial Agent Against Multi-drug-Resistant Microbes: Source, Application, and Potential. **2023**, 235-259	0
76	A novel designed membrane-active peptide for the control of foodborne Salmonella enterica serovar Typhimurium. **2023**, 13,	0
75	Efficient Synergistic Antibacterial Activity of α-MSH Using Chitosan-Based Versatile Nanoconjugates. **2023**, 8, 12865-12877	0
74	Identification of waprin and its microbicidal activity: A novel protein component of honeybee (Apis mellifera) venom. **2023**, 266, 109561	0

73	Bridging Thermodynamics, Antimicrobial Activity, and pH Sensitivity of Cationic Membranolytic Heptapeptides□A Computational and Experimental Study.	0
72	Introduction of a □-leucine residue instead of leucine9 and glycine10 residues in Temporin L for improved cell selectivity, stability and activity against planktonic and biofilm of methicillin resistant S. aureus. **2023**, 134, 106440	0
71	Nanotheranostics to target antibiotic-resistant bacteria: Strategies and applications. **2023**, 11, 100138	1
70	Molecular identification of a novel antimicrobial peptide in giant Triton snail Charonia tritonis: mRNA profiles for tissues and its potential antibacterial activity. **2023**, 136, 108734	0
69	Mechanistic insight of lysozyme transport through the outer bacteria membrane with dendronized silver nanoparticles for peptidoglycan degradation. **2023**, 237, 124239	0
68	Probing the interactions between amyloidogenic proteins and bio-membranes. **2023**, 296, 106984	0
67	A novel ESKAPE-sensitive peptide with enhanced stability and its application in controlling multiple bacterial contaminations in chilled fresh pork. **2023**, 413, 135647	0
66	Bioactive peptides derived from fermented foods: Preparation and biological activities. **2023**, 101, 105422	2
65	Poly-L-Lysine to Fight Antibiotic Resistances of Pseudomonas aeruginosa. **2023**, 24, 2851	0
64	Disease state associated with chronic toe lesions in hellbenders may alter anti-chytrid skin defenses. **2023**, 13,	0
63	Assessment of copy number variants in three Brazilian locally adapted cattle breeds using whole-genome re-sequencing data.	0
62	Thinking on the Construction of Antimicrobial Peptide Databases: Powerful Tools for the Molecular Design and Screening. **2023**, 24, 3134	0
61	Applications of antimicrobial peptides (AMPs) as an alternative to antibiotic use in aquaculture: a mini-review. **2023**,	0
60	Rational design of HJH antimicrobial peptides to improve antimicrobial activity. **2023**, 83, 129176	0
59	Preferential disruption of E. coli biofilm via ratiometric detection and targeting of extracellular matrix using graphene-oxide-conjugated red-emitting fluorescent copper nanoclusters. **2023**, 10, 1077-1095	0
58	Rational design of stapled antimicrobial peptides.	0
57	Understanding the Roles of Host Defense Peptides in Immune Modulation: From Antimicrobial Action to Potential as Adjuvants. **2023**, 33, 288-298	0
56	Synthesis of adenine-based cationic and anionic amphiphiles.	0

55	Antimicrobial Brushes on Titanium via Grafting to Using Phosphonic Acid/Pyridinium Containing Block Copolymers. 2200665	0
54	Association between Microorganisms and Microplastics: How Does It Change the Host Pathogen Interaction and Subsequent Immune Response?. **2023**, 24, 4065	0
53	Hierarchical Superstructure of Plant Polyphenol and Arginine Surfactant for Long-Lasting and Target-Selective Antimicrobial Application. 2210936	0
52	Occurrence of Human Defensins and S100 Proteins in Head and Neck Basal Cell Carcinoma (BCC) Entities: hBD3 and S100A4 as Potential Biomarkers to Evaluate Successful Surgical Therapy. **2023**, 4, 1	0
51	Application of Antimicrobial Peptides in the Design and Production of Anticancer Agents. **2023**, 29,	0
50	Novel Arginine- and Proline-Rich Candidacidal Peptides Obtained through a Bioinformatic Approach. **2023**, 12, 472	0
49	High-efficiency production of the antimicrobial peptide pediocin PA-1 in metabolically engineered Corynebacterium glutamicum using a microaerobic process at acidic pH and elevated levels of bivalent calcium ions. **2023**, 22,	0
48	A Simple Radioassay to Detect Nanoscale Membrane Disruption. **2023**, 6, 23	0
47	Mycobacterium abscessus Infections in Cystic Fibrosis Individuals: A Review on Therapeutic Options. **2023**, 24, 4635	0
46	Temporin-GHb-Derived Peptides Exhibit Potent Antibacterial and Antibiofilm Activities against Staphylococcus aureus In Vitro and Protect Mice from Acute Infectious Pneumonia. **2023**, 9, 840-855	0
45	Antibacterial Peptides: Potential Therapeutic Agent. **2023**, 61-92	0
44	Imaging Amyloid- Membrane Interactions: Ion-Channel Pores and Lipid-Bilayer Permeability in Alzheimer's Disease.	0
43	Imaging Amyloid- Membrane Interactions: Ion-Channel Pores and Lipid-Bilayer Permeability in Alzheimer's Disease.	0
42	The impact of N-glycosylation on the properties of the antimicrobial peptide LL-III. **2023**, 13,	0
41	Electrochemiluminescence Imaging of Liposome Permeabilization by an Antimicrobial Peptide: Melittin.	0
40	Protein Oligomer Engineering: A New Frontier for Studying Protein Structure, Function, and Toxicity.	0
39	Protein Oligomer Engineering: A New Frontier for Studying Protein Structure, Function, and Toxicity.	0
38	Inorganic hollow mesoporous spheres-based delivery for antimicrobial agents. **2023**, 17,	0

37	Removal and identification of external protein corona members from RBC-derived extracellular vesicles by surface manipulating antimicrobial peptides. **2023**, 2,	0
36	Real time PCR quantification of goat - defensin mRNA expressed by different tissues of Osmanabadi goat. **2023**, 93,	0
35	Antimicrobial peptides as promising antibiotic adjuvants to combat drug-resistant pathogens. 1-18	0
34	Antimicrobial Peptides Designed against the Loop of Class A Lactamases to Potentiate the Efficacy of Lactam Antibiotics. **2023**, 12, 553	0
33	Bacteria-Specific Feature Selection for Enhanced Antimicrobial Peptide Activity Predictions Using Machine-Learning Methods. **2023**, 63, 1723-1733	1
32	Anticancer and Targeting Activity of Phytopharmaceutical Structural Analogs of a Natural Peptide from Trichoderma longibrachiatum and Related Peptide-Decorated Gold Nanoparticles. **2023**, 24, 5537	0
31	Glycosylation and Lipidation Strategies: Approaches for Improving Antimicrobial Peptide Efficacy. **2023**, 16, 439	0
30	Arginine-Rich Peptidomimetic Ampicillin/Gentamicin Conjugate To Tackle Nosocomial Biofilms: A Promising Strategy To Repurpose First-Line Antibiotics. **2023**, 9, 916-927	0
29	Natural therapy: an alternative strategy to treat bovine mastitis. **2023**, 155-178	0
28	A review on the research progress on non-pharmacological therapy of Helicobacter pylori. 14,	0
27	Exploring the antibacterial potential of venoms from Argentinian animals. **2023**, 205,	0
26	Comparison of characteristics between peptides in fish meat and fermented products. **2023**, 1148, 012010	0
25	Infected Diabetic Wound Regeneration Using Peptide-Modified Chiral Dressing to Target Revascularization. **2023**, 17, 6275-6291	0
24	Dual-Mechanism Glycolipidpeptide with High Antimicrobial Activity, Immunomodulatory Activity, and Potential Application for Combined Antibacterial Therapy. **2023**, 17, 6292-6316	0
23	Design and Synthesis of Novel Antimicrobial Agents. **2023**, 12, 628	0
22	In silico characterization of cysteine-stabilized defensins from neglected unicellular microeukaryotes. **2023**, 23,	0
21	Allelic diversity uncovers protein domains contributing to the emergence of antimicrobial resistance. **2023**, 19, e1010490	0
20	Antimicrobial Peptides (AMPs): Potential Therapeutic Strategy against Trypanosomiases?. **2023**, 13, 599	0

19	The Use of Antibiotics in Dairy Farming. **2023**, 138-166	0
18	Hylin-a1: A Host Defense Peptide with Antibacterial Potential against Staphylococcus aureus Multi-Resistant Strains. **2023**, 16, 509	0
17	Enhanced therapeutic window for antimicrobial Pept-ins by investigating their structure-activity relationship. **2023**, 18, e0283674	0
16	Advance on Engineering of Bacteriophages by Synthetic Biology. Volume 16, 1941-1953	0
15	Therapeutic Efficacy of Anodonta cygnea and Crayfish Procambarus clarkii Hemolymph Extracts on Sepsis-Induced Acute Liver Injury in Neonate Rats. **2023**, 19, 185-196	0
14	Ginger rhizome priming with lipopeptide-producing endophytic Bacillus species to control ginger soft-rot disease caused by Pythium myriotylum. **2023**, 45,	0
13	Identification of novel peptide inhibitors for oncogenic KRAS G12D as therapeutic options using mutagenesis-based remodeling and MD simulations. 1-13	0
12	Designing New Magic Bullets to Penetrate the Mycobacterial Shield: An Arduous Quest for Promising Therapeutic Candidates.	0
11	Narrowing down chain length effects on the antibacterial action of guanylated oligomers.	0
10	Synthesis and Antibiotic Activity of Chitosan-Based Comb-like Co-Polypeptides. **2023**, 21, 243	0
9	Expression, purification and investigation of antibacterial activity of a novel hybrid peptide LL37/hBD-129 by applied comprehensive computational and experimental approaches. **2023**, 205,	0
8	Antimicrobial peptides: Structure, mechanism, and modification. **2023**, 115377	0
7	Nanostructured peptides as potential antimicrobial agent. **2023**, 133-148	0
6	Host defense peptide mimicking antimicrobial amino acid polymers and beyond: design, synthesis and biomedical applications. **2023**, 101679	0
5	Antimicrobial Peptides and Small Molecules Targeting the Cell Membrane of Staphylococcus aureus.	0
4	Emerging role of bacterial outer membrane vesicle in gastrointestinal tract. **2023**, 15,	0
3	Cell selectivity and antibiofilm and anti-inflammatory activities and antibacterial mechanism of symmetric-end antimicrobial peptide centered on D-Pro-Pro. **2023**, 666, 21-28	0
2	Discovery and analysis of a novel antimicrobial peptide B1AW from the skin secretion of Amolops wuyiensis and improving the membrane-binding affinity through the construction of the lysine-introduced analogue. **2023**, 21, 2960-2972	0

1	A dual functional polypeptide with antibacterial and anti-inflammatory properties for the treatment of periodontitis. **2023**, 242, 124920	0