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2272	An introduction to the human-microbe symbiosis. 2004 , 1-50		1
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2267	Importance of anti- and pro-nociceptive mechanisms in human disease. 2004 , 53, 1553-5		39
2266	The molecular mechanisms used by Neisseria gonorrhoeae to initiate infection differ between men and women. 2004 , 17, 965-81, table of contents		224
2265	Differential regulation of beta-defensin gene expression during Cryptosporidium parvum infection. 2004 , 72, 2772-9		83
2264	An effective method for raising antisera against beta-defensins: double-copy protein expression of mBin1b in E. coli. 2004 , 36, 571-6		11
2263	Innate immunity of the gut: mucosal defense in health and disease. 2004 , 38, 463-73		62
2262	Theta-defensins: cyclic antimicrobial peptides produced by binary ligation of truncated alpha-defensins. 2004 , 5, 365-71		89
2261	Alerting dendritic cells to pathogens: the importance of Toll-like receptor signaling of stromal cells. 2004 , 101, 16083-4		10
2260	Paneth cell alpha-defensins from rhesus macaque small intestine. 2004 , 72, 1470-8		39
2259	Computational identification and characterization of novel genes from legumes. 2004 , 135, 1179-97		153
2258	Solution structure of spheniscin, a beta-defensin from the penguin stomach. 2004 , 279, 30433-9		33

2257	Of mice and not men: differences between mouse and human immunology. 2004 , 172, 2731-8	2281
2256	Functional analysis of the alpha-defensin disulfide array in mouse cryptdin-4. 2004 , 279, 44188-96	104
2255	Induction and antimicrobial activity of platelet basic protein derivatives in human monocytes. 2004 , 76, 1010-8	24
2254	Resistance to human beta-defensins is common among oral treponemes. 2004 , 19, 403-7	20
2253	Urinary tract infections: advances and new therapies. 2004 , 93, 690-1	2
2252	Review article: the aetiopathogenesis of inflammatory bowel disease--immunology and repair mechanisms. 2004 , 20 Suppl 4, 9-17	43
2251	Innate immunity in aging: impact on macrophage function. 2004 , 3, 161-7	324
2250	Minireview: functions of the renal tract epithelium in coordinating the innate immune response to infection. 2004 , 66, 1334-44	43
2249	DNA fusion gene vaccines against cancer: from the laboratory to the clinic. 2004 , 199, 156-80	70
2248	Transduction peptides: from technology to physiology. 2004 , 6, 189-96	444
2247	Increased diversity of intestinal antimicrobial peptides by covalent dimer formation. 2004 , 5, 836-43	97
2246	An innately interesting decade of research in immunology. 2004 , 10, 1307-20	111
2245	Role of teichoic acids in <i>Staphylococcus aureus</i> nasal colonization, a major risk factor in nosocomial infections. 2004 , 10, 243-5	435
2244	Interactions between commensal intestinal bacteria and the immune system. <i>Nature Reviews Immunology</i> , 2004 , 4, 478-85	36.5 1141
2243	Can innate immunity be enhanced to treat microbial infections?. 2004 , 2, 497-504	236
2242	First line of defense in early human life. 2004 , 28, 304-11	27
2241	A genome-wide screen identifies a single beta-defensin gene cluster in the chicken: implications for the origin and evolution of mammalian defensins. 2004 , 5, 56	225
2240	Polymorphic segmental duplications at 8p23.1 challenge the determination of individual defensin gene repertoires and the assembly of a contiguous human reference sequence. 2004 , 5, 92	45

2239	The scorpine family of defensins: gene structure, alternative polyadenylation and fold recognition. 2004 , 61, 1751-63	63
2238	Antimicrobial proteins act as "alarmins" in joint immune defense. 2004 , 50, 3401-3	54
2237	Activity of alpha- and theta-defensins against primary isolates of HIV-1. 2004 , 173, 515-20	168
2236	T cell apoptosis and inflammatory bowel disease. 2004 , 53, 1556-8	53
2235	Protease-activated receptor signaling increases epithelial antimicrobial peptide expression. 2004 , 173, 5165-70	92
2234	Cutting edge: 1,25-dihydroxyvitamin D3 is a direct inducer of antimicrobial peptide gene expression. 2004 , 173, 2909-12	1163
2233	Solution structure of cryptdin-4, a mouse paneth cell alpha-defensin. 2004 , 43, 15759-66	32
2232	Structure-activity relationships in defensin dimers: a novel link between beta-defensin tertiary structure and antimicrobial activity. 2004 , 279, 48671-9	72
2231	Les défensines jouent un rôle dans l'homéostasie des voies aériennes et participent à la défense anti-infectieuse. 2004 , 21, 19-21	
2230	Cationic antimicrobial peptides - an update. 2004 , 13, 97-106	39
2229	NF-kappaB- and AP-1-mediated induction of human beta defensin-2 in intestinal epithelial cells by Escherichia coli Nissle 1917: a novel effect of a probiotic bacterium. 2004 , 72, 5750-8	381
2228	Avian antimicrobial peptides: the defense role of beta-defensins. 2004 , 323, 721-7	137
2227	Equine beta-defensin-1: full-length cDNA sequence and tissue expression. 2004 , 99, 127-32	18
2226	A novel carrier molecule for high-level expression of peptide antibiotics in Escherichia coli. 2004 , 36, 11-8	84
2225	Bacterial evasion of innate host defenses--the Staphylococcus aureus lesson. 2004 , 294, 189-94	111
2224	Infectious non-self recognition in invertebrates: lessons from Drosophila and other insect models. 2004 , 41, 1063-75	59
2223	Allergénicité des protéines de défense végétale. 2004 , 44, 469-475	8
2222	Inactivation of a Pseudomonas aeruginosa quorum-sensing signal by human airway epithelia. 2004 , 101, 3587-90	241

2221	Defensins and other antimicrobial peptides at the ocular surface. 2004 , 2, 229-47	72
2220	[Immunomodulating capacity of tick saliva in the transmission of pathogenic agents]. 2004 , 34 Suppl 1, S22-3	2
2219	Food allergy and the gastrointestinal tract. 2004 , 20, 156-61	19
2218	The epidermal skin barrier: implications for the wound care practitioner, part I. 2004 , 17, 417-25	18
2217	CALL FOR PAPERS. 2004 , 17, 425	
2216	Innate immunity and mucosal bacterial interactions in the intestine. 2004 , 20, 82-8	51
2215	Retrocyclins: using past as prologue. 2004 , 5, 373-81	35
2214	Host-bacterial interactions in inflammatory bowel disease. 2004 , 107, 331-41	79
2213	Reactive oxygen species play no role in the candidacidal activity of the salivary antimicrobial peptide histatin 5. 2004 , 381, 447-52	60
2212	Rapid evolution and diversification of mammalian alpha-defensins as revealed by comparative analysis of rodent and primate genes. 2004 , 20, 1-11	125
2211	Chemokines in Immune Surveillance of the Intestine. 2005 , 55, 143-158	1
2210	Innate and Adaptive Immunity of the Eye. 2005 , 291-305	3
2209	Pathological Relevance of the Natural Immune System. 2005 , 331-350	
2208	Innate Immunity in the Lungs to Cryptococcal Infection. 2005 , 135-155	1
2207	Interaction of SP-A (surfactant protein A) with bacterial rough lipopolysaccharide (Re-LPS), and effects of SP-A on the binding of Re-LPS to CD14 and LPS-binding protein. 2005 , 391, 115-24	34
2206	Microbial compounds induce the expression of pro-inflammatory cytokines, chemokines and human beta-defensin-2 in vaginal epithelial cells. 2005 , 7, 1117-27	116
2205	Host defense effector molecules in mucosal secretions. 2005 , 45, 151-8	36
2204	Alarmins: chemotactic activators of immune responses. 2005 , 17, 359-65	622

2203	Pulmonary defense and the human cathelicidin hCAP-18/LL-37. 2005 , 31, 75-89	16
2202	The antimicrobial peptide rCRAMP is present in the central nervous system of the rat. 2005 , 93, 1132-40	27
2201	<i>Neisseria gonorrhoeae</i> downregulates expression of the human antimicrobial peptide LL-37. 2005 , 7, 1009-17	95
2200	The increase in mucin exocytosis and the upregulation of MUC genes encoding for membrane-bound mucins induced by the thiol-activated exotoxin listeriolysin O is a host cell defence response that inhibits the cell-entry of <i>Listeria monocytogenes</i> . 2005 , 7, 1035-48	22
2199	Regulation of mammalian defensin expression by Toll-like receptor-dependent and independent signalling pathways. 2005 , 7, 1387-97	109
2198	A defensin-like gene expressed in the black-legged tick, <i>Ixodes scapularis</i> . 2005 , 19, 339-44	57
2197	The alternative sigma factor sigma is required for resistance of <i>Salmonella enterica</i> serovar Typhimurium to anti-microbial peptides. 2005 , 56, 789-99	58
2196	Susceptibility to infection in patients with neutropenia: the role of the innate immune system. 2005 , 129, 713-22	36
2195	Tamm-Horsfall protein: a multilayered defence molecule against urinary tract infection. 2005 , 35, 227-35	68
2194	An important clue: fingerprints point to psoriasin in defense against <i>E. coli</i> . 2005 , 6, 12-3	8
2193	Back to the past: new drugs from ancient molecules?. 2005 , 6, 963-4	2
2192	A-Miz-ing BCL6. 2005 , 6, 964-6	5
2191	Mammalian defensins in the antimicrobial immune response. 2005 , 6, 551-7	934
2190	The nervous system and innate immunity: the neuropeptide connection. 2005 , 6, 558-64	357
2189	The Jak-STAT signaling pathway is required but not sufficient for the antiviral response of <i>Drosophila</i> . 2005 , 6, 946-53	466
2188	LPS, TLR4 and infectious disease diversity. 2005 , 3, 36-46	718
2187	Antimicrobial peptides: pore formers or metabolic inhibitors in bacteria?. 2005 , 3, 238-50	4060
2186	Identification, characterization, and evolution of a primate beta-defensin gene cluster. 2005 , 6, 203-10	42

2185	Plectasin is a peptide antibiotic with therapeutic potential from a saprophytic fungus. 2005 , 437, 975-80	477
2184	Structural aspects and biological properties of the cathelicidin PMAP-36. 2005 , 272, 4398-406	38
2183	Interactions among stratum corneum defensive functions. 2005 , 14, 719-26	143
2182	Stratum corneum defensive functions: an integrated view. 2005 , 125, 183-200	478
2181	Inflammation and cancer: is the link as simple as we think?. 2005 , 124, x-xiv	68
2180	Old meets new: the interaction between innate and adaptive immunity. 2005 , 125, 629-37	111
2179	Pulmonary DNA vaccination: concepts, possibilities and perspectives. 2005 , 107, 1-29	63
2178	Innate immunity and the lung: defense at the interface between host and environment. 2005 , 15, 195-202	36
2177	Molecular signature of clinical severity in recovering patients with severe acute respiratory syndrome coronavirus (SARS-CoV). 2005 , 6, 132	30
2176	Antimicrobial peptides: new candidates in the fight against bacterial infections. 2005 , 80, 717-35	244
2175	Evolution of caprine and ovine beta-defensin genes. 2005 , 57, 487-98	18
2174	Surveillance B lymphocytes and mucosal immunoregulation. 2005 , 26, 453-62	22
2173	Paneth cell alpha-defensins: peptide mediators of innate immunity in the small intestine. 2005 , 27, 133-46	51
2172	Intestinal mucosal responses to microbial infection. 2005 , 27, 181-96	37
2171	Innate defenses of the intestinal epithelial barrier. 2005 , 62, 1297-307	151
2170	Contribution of microbial-associated molecules in innate mucosal responses. 2005 , 62, 1349-58	27
2169	Function and therapeutic potential of host defence peptides. 2005 , 11, 677-87	147
2168	A comparative study of <i>Bacillus cereus</i> , <i>Bacillus thuringiensis</i> and <i>Bacillus anthracis</i> extracellular proteomes. 2005 , 5, 3696-711	104

2167	Snake Venom: Any Clue for Antibiotics and CAM?. 2005 , 2, 39-47	32
2166	Primate beta-defensins--structure, function and evolution. 2005 , 6, 7-21	45
2165	Defensins--non-antibiotic use for vaccine development. 2005 , 6, 53-60	29
2164	Antimicrobial peptide microbicides targeting HIV. 2005 , 12, 41-7	27
2163	Host defense peptides: roles and applications. 2005 , 6, 1-3	21
2162	Regulatory T cells and the innate immune system. 2005 , 77-91	
2161	Differential regulation of beta-defensin expression in human skin by microbial stimuli. 2005 , 174, 4870-9	204
2160	Interactions between neutrophil-derived antimicrobial peptides and airway epithelial cells. 2005 , 77, 444-50	40
2159	Microbicides for prevention of transmission of sexually transmitted diseases. 2005 , 11, 3731-46	35
2158	Events at the host-microbial interface of the gastrointestinal tract. II. Role of the intestinal epithelium in pathogen-induced inflammation. 2005 , 288, G854-9	35
2157	Human neutrophils kill Bacillus anthracis. 2005 , 1, e23	64
2156	Pathogenesis of Afa/Dr diffusely adhering Escherichia coli. 2005 , 18, 264-92	168
2155	Antimicrobial peptides in the oral environment: expression and function in health and disease. 2005 , 7, 119-33	253
2154	Multiple TLRs are expressed in human cholangiocytes and mediate host epithelial defense responses to Cryptosporidium parvum via activation of NF-kappaB. 2005 , 175, 7447-56	174
2153	Peptidoglycan recognition protein 2 (N-acetylmuramoyl-L-Ala amidase) is induced in keratinocytes by bacteria through the p38 kinase pathway. 2005 , 73, 7216-25	41
2152	Distinct defensin profiles in Neisseria gonorrhoeae and Chlamydia trachomatis urethritis reveal novel epithelial cell-neutrophil interactions. 2005 , 73, 4823-33	88
2151	Urinary tract infections: new insights into a common problem. 2005 , 81, 83-6	108
2150	Why is the Arg5-Glu13 salt bridge conserved in mammalian alpha-defensins?. 2005 , 280, 43039-47	42

2149	Facilitation of expression and purification of an antimicrobial peptide by fusion with baculoviral polyhedrin in <i>Escherichia coli</i> . 2005 , 71, 5038-43	54
2148	Bacterial interactions with cells of the intestinal mucosa: Toll-like receptors and NOD2. 2005 , 54, 1182-93	233
2147	Special Feature <i>Eye Research</i> . 2005 , 09, 1240-1249	
2146	The antimicrobial antiprotease elafin binds to lipopolysaccharide and modulates macrophage responses. 2005 , 32, 443-52	52
2145	pH-, Lactic acid-, and non-lactic acid-dependent activities of probiotic <i>Lactobacilli</i> against <i>Salmonella enterica</i> Serovar Typhimurium. 2005 , 71, 6008-13	193
2144	Cross-species analysis of the mammalian beta-defensin gene family: presence of syntenic gene clusters and preferential expression in the male reproductive tract. 2005 , 23, 5-17	170
2143	TGF- α regulates TLR expression and function on epidermal keratinocytes. 2005 , 174, 6137-43	132
2142	Human alpha-defensins neutralize anthrax lethal toxin and protect against its fatal consequences. 2005 , 102, 4830-5	120
2141	Mouse intestinal cryptidins exhibit circadian oscillation. 2005 , 19, 1920-2	33
2140	Genome-wide analysis on inbreeding effects on gene expression in <i>Drosophila melanogaster</i> . 2005 , 171, 157-67	80
2139	Resolvase-in vivo expression technology analysis of the <i>Salmonella enterica</i> serovar Typhimurium PhoP and PmrA regulons in BALB/c mice. 2005 , 187, 7407-16	72
2138	Salivary antimicrobial peptide expression and dental caries experience in children. 2005 , 49, 3883-8	142
2137	Application of the "codon-shuffling" method. Synthesis and selection of de novo proteins as antibacterials. 2005 , 280, 23605-14	12
2136	Induction of keratinocyte migration via transactivation of the epidermal growth factor receptor by the antimicrobial peptide LL-37. 2005 , 175, 4662-8	275
2135	Intestinal innate immunity to <i>Campylobacter jejuni</i> results in induction of bactericidal human beta-defensins 2 and 3. 2005 , 73, 7281-9	73
2134	A <i>Lactobacillus acidophilus</i> strain of human gastrointestinal microbiota origin elicits killing of enterovirulent <i>Salmonella enterica</i> Serovar Typhimurium by triggering lethal bacterial membrane damage. 2005 , 71, 6115-20	29
2133	Innate immunity in the human female reproductive tract: antiviral response of uterine epithelial cells to the TLR3 agonist poly(I:C). 2005 , 174, 992-1002	231
2132	Role of mucosal immunity in preventing genital herpes infection. 2005 , 18, 595-606	31

2131	Epithelial defence by gamma delta T cells. 2005 , 137, 73-81	54
2130	Defensin deficiency, intestinal microbes, and the clinical phenotypes of Crohn's disease. 2005 , 77, 460-5	117
2129	Immunogenetics of severe respiratory infections: models for the development of new therapeutic strategies. 2005 , 72, 449-57	7
2128	Innate Immunity in the Skin: How Keratinocytes Fight Against Pathogens. 2005 , 1, 29-42	55
2127	Towards characterization of the human urinary peptidome. 2005 , 8, 757-65	47
2126	Molecular cloning and characterization of three beta-defensins from canine testes. 2005 , 73, 2611-20	51
2125	Design and validation of anti-inflammatory peptides from human parotid secretory protein. 2005 , 84, 149-53	32
2124	Reconstruction of the conserved beta-bulge in mammalian defensins using D-amino acids. 2005 , 280, 32921-9	60
2123	Antibacterial activity and specificity of the six human {alpha}-defensins. 2005 , 49, 269-75	250
2122	Antibacterial activity of human neutrophil defensin HNP-1 analogs without cysteines. 2005 , 49, 4561-6	79
2121	Mouse paneth cell secretory responses to cell surface glycolipids of virulent and attenuated pathogenic bacteria. 2005 , 73, 2312-20	48
2120	Staphylococcus aureus infection of epidermal keratinocytes promotes expression of innate antimicrobial peptides. 2005 , 73, 5241-4	45
2119	Gastrointestinal food allergy: new insights into pathophysiology and clinical perspectives. 2005 , 128, 1089-113	191
2118	Neurogenic inflammation: a first line of defense for the ocular surface. 2005 , 3, S203-6	36
2117	Myeloperoxidase: friend and foe. 2005 , 77, 598-625	1566
2116	Antimicrobial peptides: effectors of innate immunity in the skin. 2005 , 21, 357-74	29
2115	Regulatory T Cells in Inflammation. 2005 ,	1
2114	Neutral glycolipids of the filamentous fungus Neurospora crassa: altered expression in plant defensin-resistant mutants. 2005 , 46, 759-68	20

2113	Susceptibility of <i>Streptococcus mutans</i> and <i>Actinobacillus actinomycetemcomitans</i> to bactericidal activity of human beta-defensin 3 in biological fluids. 2005 , 49, 1245-8	28
2112	Mechanisms of disease: defensins in gastrointestinal diseases. 2005 , 2, 406-15	114
2111	TLR signaling in the gut in health and disease. 2005 , 174, 4453-60	483
2110	Differential induction of human beta-defensin expression by periodontal commensals and pathogens in periodontal pocket epithelial cells. 2005 , 76, 1293-303	67
2109	How neutrophils kill microbes. 2005 , 23, 197-223	1233
2108	Detection of individual human neutrophil alpha-defensins (human neutrophil peptides 1, 2 and 3) in unfractionated gingival crevicular fluid--a MALDI-MS approach. 2005 , 42, 575-9	45
2107	Correlation between beta-defensin expression and induction profiles in gingival keratinocytes. 2005 , 42, 1073-84	110
2106	Innate immune defence in the human gastrointestinal tract. 2005 , 42, 903-12	73
2105	Nod1 signaling to extracellular mucosal bacteria in epithelial cells. 2005 , 1285, 68-77	2
2104	Recognition of antimicrobial peptides by a bacterial sensor kinase. 2005 , 122, 461-72	439
2103	Spermicidal activity of dermaseptins. 2005 , 72, 447-53	20
2102	Plant-pathogen interactions: will the understanding of common mechanisms lead to the unification of concepts?. 2005 , 328, 821-33	5
2101	Catfish hepcidin gene is expressed in a wide range of tissues and exhibits tissue-specific upregulation after bacterial infection. 2005 , 29, 939-50	150
2100	Human neutrophil alpha-defensin 4 inhibits HIV-1 infection in vitro. 2005 , 579, 162-6	74
2099	Effects of the terminal charges in human neutrophil alpha-defensin 2 on its bactericidal and membrane activity. 2005 , 26, 2377-83	19
2098	Distribution of human beta-defensin polymorphisms in various control and cystic fibrosis populations. 2005 , 85, 574-81	29
2097	Human defensin gene copy number polymorphisms: comprehensive analysis of independent variation in alpha- and beta-defensin regions at 8p22-p23. 2005 , 86, 423-30	162
2096	Respiratory epithelial cells require Toll-like receptor 4 for induction of human beta-defensin 2 by lipopolysaccharide. 2005 , 6, 116	73

2095	A review of antimicrobial peptides and their therapeutic potential as anti-infective drugs. 2005 , 30, 505-15	518
2094	Differential expression of rat beta-defensins. 2005 , 57, 41-3	19
2093	Innate immune responses to infection. 2005 , 116, 241-9; quiz 250	250
2092	Infection versus immunity: What's the balance?. 2005 , 116, 263-6	3
2091	Toward defining the human parotid gland salivary proteome and peptidome: identification and characterization using 2D SDS-PAGE, ultrafiltration, HPLC, and mass spectrometry. 2005 , 44, 2885-99	148
2090	Human cathelicidin (LL-37), a multifunctional peptide, is expressed by ocular surface epithelia and has potent antibacterial and antiviral activity. 2005 , 30, 385-94	191
2089	Antimicrobial Peptides and Human Disease. 2006 ,	7
2088	Chemokine Biology [Basic Research and Clinical Application. 2006 ,	2
2087	Peptide antimicrobial agents. 2006 , 19, 491-511	1759
2086	Effects of chicken intestinal antimicrobial peptides on humoral immunity of chickens and antibody titres after vaccination with infectious bursal disease virus vaccine in chicken. 2006 , 60, 427-35	9
2085	Maintenance of nitric oxide and redox homeostasis by the salmonella flavohemoglobin hmp. 2006 , 281, 28039-47	156
2084	Necrotising enterocolitis. 2006 , 368, 1271-83	697
2083	Epidemic influenza and vitamin D. 2006 , 134, 1129-40	679
2082	A molecular dynamics study of Lys-Trp-Lys: structure and dynamics in solution following photoexcitation. 2006 , 110, 10497-508	41
2081	Latarcins, antimicrobial and cytolytic peptides from the venom of the spider <i>Lachesana tarabaevi</i> (Zodariidae) that exemplify biomolecular diversity. 2006 , 281, 20983-20992	121
2080	Inmunidad innata gastrointestinal y enfermedad inflamatoria intestinal. 2006 , 5, 222-227	
2079	High level expression of human epithelial beta-defensins (hBD-1, 2 and 3) in papillomavirus induced lesions. 2006 , 3, 75	35
2078	Antimicrobial activity of potato aspartic proteases (StAPs) involves membrane permeabilization. 2006 , 152, 2039-2047	46

2077	Identification of three novel ostricacins: an update on the phylogenetic perspective of beta-defensins. 2006 , 27, 229-35	36
2076	Characterization of the human salivary proteome by capillary isoelectric focusing/nanoreversed-phase liquid chromatography coupled with ESI-tandem MS. 2006 , 5, 1469-78	126
2075	Paneth cell antimicrobial peptides: topographical distribution and quantification in human gastrointestinal tissues. 2006 , 580, 5344-50	123
2074	The human beta-defensin-3, an antibacterial peptide with multiple biological functions. 2006 , 1758, 1499-512	232
2073	Sequence analysis of a 212 kb defensin gene cluster on ECA 27q17. 2006 , 376, 192-8	14
2072	Human neutrophil peptides 1, 2 and 3 are biochemical markers for metastatic colorectal cancer. 2006 , 42, 3057-64	49
2071	Mass spectrometry-based relative quantification of human neutrophil peptides 1, 2, and 3 from biological samples. 2006 , 43, 1485-9	17
2070	Albumin and amino acids upregulate the expression of human beta-defensin 1. 2006 , 43, 1617-23	60
2069	Expression and purification of recombinant human alpha-defensins in Escherichia coli. 2006 , 49, 1-8	50
2068	Antibacterial activities of synthetic peptides corresponding to the carboxy-terminal region of human beta-defensins 1-3. 2006 , 27, 2607-13	55
2067	Defensin: a multifunctional molecule lives up to its versatile name. 2006 , 14, 428-31	24
2066	NODs in defence: from vulnerable antimicrobial peptides to chronic inflammation. 2006 , 14, 432-8	41
2065	Gastrointestinal mucosal immunology and mechanisms of inflammation. 2006 , 85-107	
2064	Dendritic Cell-Epithelial Cell Interactions in Response to Intestinal Bacteria. 759-771	
2063	Microbial molecular patterns and host defense. 99-130	
2062	Antimicrobial properties of alpha-MSH and related synthetic melanocortins. 2006 , 6, 1241-6	28
2061	Chemokines in gastrointestinal disorders. 2006 , 7, 47-64	22
2060	Structural and functional studies of defensin-inspired peptides. 2006 , 34, 251-256	6

2059	Structural and functional studies of defensin-inspired peptides. 2006 , 34, 251-6	12
2058	SLPI and elafin: one glove, many fingers. 2006 , 110, 21-35	216
2057	Tissue-transglutaminase contributes to neutrophil granulocyte differentiation and functions. 2006 , 108, 2045-54	59
2056	Granzyme B, a novel mediator of allergic inflammation: its induction and release in blood basophils and human asthma. 2006 , 108, 2290-9	128
2055	Bacterial sepsis and chemokines. 2006 , 7, 119-34	30
2054	The struggle for iron: gastrointestinal microbes modulate the host immune response during infection. 2006 ,	3
2053	The Bacterial Cell Wall. 2006 , 14, 309-317	4
2052	alpha-Defensins 1, 2, and 3 are expressed by granulocytes in lymphoid tissues of HIV-1-seropositive and -seronegative individuals. 2006 , 42, 529-36	9
2051	Innate defense against influenza A virus: activity of human neutrophil defensins and interactions of defensins with surfactant protein D. 2006 , 176, 6962-72	104
2050	Pathogenesis of urinary tract infection: an update. 2006 , 18, 148-52	60
2049	Oral antimicrobial peptides and biological control of caries. 2006 , 6 Suppl 1, S13	61
2048	Effects of polymicrobial communities on host immunity and response. 2006 , 265, 141-50	11
2047	Alpha-defensin increase in peripheral blood mononuclear cells from patients with hepatitis C virus chronic infection. 2006 , 13, 821-7	15
2046	Is there a role of food allergy in irritable bowel syndrome and functional dyspepsia? A systematic review. 2006 , 18, 595-607	100
2045	A putative novel role for plant defensins: a defensin from the zinc hyper-accumulating plant, <i>Arabidopsis halleri</i> , confers zinc tolerance. 2006 , 47, 329-42	151
2044	Effect of oestradiol on PAMP-mediated CCL20/MIP-3 alpha production by mouse uterine epithelial cells in culture. 2006 , 118, 185-94	28
2043	The antimicrobial peptide cathelicidin protects the urinary tract against invasive bacterial infection. 2006 , 12, 636-41	476
2042	Defensins in innate antiviral immunity. <i>Nature Reviews Immunology</i> , 2006 , 6, 447-56	36.5 384

2041	The co-evolution of host cationic antimicrobial peptides and microbial resistance. 2006 , 4, 529-36	753
2040	The urokinase plasminogen activator receptor is crucially involved in host defense during acute pyelonephritis. 2006 , 70, 1942-7	22
2039	QSAR analysis of antimicrobial and haemolytic effects of cyclic cationic antimicrobial peptides derived from protegrin-1. 2006 , 14, 6065-74	52
2038	Salmonella carrier-state in hens: study of host resistance by a gene expression approach. 2006 , 8, 1308-14	47
2037	Toll-like receptor 2-mediated expression of beta-defensin-2 in human corneal epithelial cells. 2006 , 8, 380-9	105
2036	Molecular mechanisms of bacterial resistance to antimicrobial peptides. 2006 , 306, 231-50	70
2035	A new look at Crohn's disease: breakdown of the mucosal antibacterial defense. 2006 , 1072, 321-31	48
2034	Mucosal immunization with a urease B DNA vaccine induces innate and cellular immune responses against <i>Helicobacter pylori</i> . 2006 , 11, 113-22	27
2033	Bioinformatic and expression analysis of novel porcine beta-defensins. 2006 , 17, 332-9	66
2032	Temporins, anti-infective peptides with expanding properties. 2006 , 63, 1060-9	122
2031	Human beta-defensins. 2006 , 63, 1294-313	383
2030	Novel antiviral activity of chemokines. 2006 , 350, 484-92	31
2029	Antimicrobial peptides in the interactions between insects and flagellate parasites. 2006 , 22, 262-8	63
2028	Screening of copy number polymorphisms in human beta-defensin genes using modified real-time quantitative PCR. 2006 , 308, 231-40	27
2027	Antimicrobial activity of Substance P and Neuropeptide Y against laboratory strains of bacteria and oral microorganisms. 2006 , 177, 215-8	42
2026	Modelling study of dimerization in mammalian defensins. 2006 , 7 Suppl 5, S17	24
2025	Human ceruminous gland: ultrastructure and histochemical analysis of antimicrobial and cytoskeletal components. 2006 , 288, 877-84	30
2024	Stable expression of soluble therapeutic peptides in eukaryotic cells by multimerisation: application to the HIV-1 fusion inhibitory peptide C46. 2006 , 1, 330-9	23

2023	Abacavir and Mycophenolic Acid, an Inhibitor of Inosine Monophosphate Dehydrogenase, Have Profound and Synergistic Anti-HIV Activity. 2006 , 21, 362	10
2022	Protection against <i>Pseudomonas aeruginosa</i> pneumonia and sepsis-induced lung injury by overexpression of beta-defensin-2 in rats. 2006 , 26, 365-71	39
2021	Uncovering host defences in the urinary tract: cathelicidin and beyond. 2007 , 22, 347-9	6
2020	Endogenous pulmonary antibiotics. 2006 , 51, 37-42	1
2019	Anticancer alpha-helical peptides and structure/function relationships underpinning their interactions with tumour cell membranes. 2006 , 7, 487-99	121
2018	Host defense peptides and lipopeptides: modes of action and potential candidates for the treatment of bacterial and fungal infections. 2006 , 7, 479-86	64
2017	Toll-like receptors and corneal innate immunity. 2006 , 6, 327-37	94
2016	The front line of enteric host defense against unwelcome intrusion of harmful microorganisms: mucins, antimicrobial peptides, and microbiota. 2006 , 19, 315-37	372
2015	Induction of the antimicrobial peptide CRAMP in the blood-brain barrier and meninges after meningococcal infection. 2006 , 74, 6982-91	75
2014	Structural and functional characterization of the conserved salt bridge in mammalian paneth cell alpha-defensins: solution structures of mouse CRYPTDIN-4 and (E15D)-CRYPTDIN-4. 2006 , 281, 28068-78	36
2013	Penicillin-binding protein 1a promotes resistance of group B streptococcus to antimicrobial peptides. 2006 , 74, 6179-87	39
2012	Human beta-defensin 2 induces a vigorous cytokine response in peripheral blood mononuclear cells. 2006 , 50, 1433-41	78
2011	Solution structure of a novel tryptophan-rich peptide with bidirectional antimicrobial activity. 2006 , 188, 328-34	53
2010	In vitro bactericidal activity of human beta-defensin 3 against multidrug-resistant nosocomial strains. 2006 , 50, 806-9	92
2009	Peptidoglycan recognition proteins are a new class of human bactericidal proteins. 2006 , 281, 5895-907	167
2008	Physicochemical properties that enhance discriminative antibacterial activity of short dermaseptin derivatives. 2006 , 50, 2666-72	27
2007	Signal transduction and nuclear responses in <i>Staphylococcus aureus</i> -induced expression of human beta-defensin 3 in skin keratinocytes. 2006 , 74, 6847-54	72
2006	Identification of RNase 8 as a novel human antimicrobial protein. 2006 , 50, 3194-6	48

2005	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
2004	Human alpha-defensins block papillomavirus infection. 2006 , 103, 1516-21	210
2003	Defensins HNP1 and HBD2 stimulation of wound-associated responses in human conjunctival fibroblasts. 2006 , 47, 3811-9	37
2002	Mechanisms of uropathogenic Escherichia coli persistence and eradication from the urinary tract. 2006 , 103, 14170-5	348
2001	Analyses of Five gallinacin genes and the Salmonella enterica serovar Enteritidis response in poultry. 2006 , 74, 3375-80	40
2000	Human alpha- and beta-defensins block multiple steps in herpes simplex virus infection. 2006 , 177, 8658-66	203
1999	Dynamic imaging of dendritic cell extension into the small bowel lumen in response to epithelial cell TLR engagement. 2006 , 203, 2841-52	565
1998	Mechanistic and functional studies of the interaction of a proline-rich antimicrobial peptide with mammalian cells. 2006 , 281, 383-91	46
1997	Host antimicrobial defence peptides in human disease. 2006 , 306, 67-90	43
1996	Identification and functional characterization of three chicken cathelicidins with potent antimicrobial activity. 2006 , 281, 2858-67	165
1995	Acyl-substituted dermaseptin S4 derivatives with improved bactericidal properties, including on oral microflora. 2006 , 50, 4153-60	25
1994	Naturally processed dermcidin-derived peptides do not permeabilize bacterial membranes and kill microorganisms irrespective of their charge. 2006 , 50, 2608-20	89
1993	Macrophages acquire neutrophil granules for antimicrobial activity against intracellular pathogens. 2006 , 177, 1864-71	175
1992	PU.1 and a TTTAAA element in the myeloid defensin-1 promoter create an operational TATA box that can impose cell specificity onto TFIID function. 2006 , 176, 6906-17	12
1991	Improved outcome in shigellosis associated with butyrate induction of an endogenous peptide antibiotic. 2006 , 103, 9178-83	218
1990	ADP-ribosyltransferase-specific modification of human neutrophil peptide-1. 2006 , 281, 17054-17060	46
1989	Nucleotide-binding oligomerization domain-1 and epidermal growth factor receptor: critical regulators of beta-defensins during Helicobacter pylori infection. 2006 , 281, 11637-48	134
1988	Beta-defensin overexpression induces progressive muscle degeneration in mice. 2007 , 292, C2141-9	19

1987	Human peptidoglycan recognition proteins require zinc to kill both gram-positive and gram-negative bacteria and are synergistic with antibacterial peptides. 2007 , 178, 3116-25	94
1986	Studies of the biological properties of human beta-defensin 1. 2007 , 282, 1819-29	56
1985	Chemoattraction of macrophages, T lymphocytes, and mast cells is evolutionarily conserved within the human alpha-defensin family. 2007 , 179, 3958-65	133
1984	A streptococcal penicillin-binding protein is critical for resisting innate airway defenses in the neonatal lung. 2007 , 179, 3196-202	22
1983	Breast milk alpha-defensins are associated with HIV type 1 RNA and CC chemokines in breast milk but not vertical HIV type 1 transmission. 2007 , 23, 198-203	28
1982	Defensin participation in innate and adaptive immunity. 2007 , 13, 3131-9	117
1981	Antimicrobial peptides in oral cancer. 2007 , 13, 3119-30	26
1980	A pocket guide to explorations of the defensin field. 2007 , 13, 3061-4	9
1979	Comparative genomic analysis of a mammalian beta-defensin gene cluster. 2007 , 30, 213-22	16
1978	An insight into the sialome of the oriental rat flea, <i>Xenopsylla cheopis</i> (Rots). 2007 , 8, 102	54
1977	The Impact of Coagulation and Fibrinolysis Cascades on the Development of Septic and Autoimmune Arthritis. 2007 , 3, 197-204	1
1976	NOD2 and defensins: translating innate to adaptive immunity in Crohn's disease. 2007 , 13, 135-9	17
1975	Antimicrobial peptides in burns and wounds. 2007 , 8, 506-20	25
1974	Human α -defensin-3 activates professional antigen-presenting cells via Toll-like receptors 1 and 2. 2007 , 104, 18631-5	280
1973	The role and potential therapeutical applications of antimicrobial proteins in infectious and inflammatory diseases. 2007 , 7, 75-82	26
1972	Antimicrobial components of the neonatal gut affected upon colonization. 2007 , 61, 530-6	43
1971	Anionic lipids enriched at the ExPortal of <i>Streptococcus pyogenes</i> . 2007 , 189, 801-6	46
1970	Toward understanding the cationicity of defensins. Arg and Lys versus their noncoded analogs. 2007 , 282, 19653-65	111

1969	Activation of protective responses in oral epithelial cells by <i>Fusobacterium nucleatum</i> and human beta-defensin-2. 2007 , 56, 976-987	41
1968	Chicken gallinacin gene cluster associated with <i>Salmonella</i> response in advanced intercross line. 2007 , 51, 561-7	49
1967	Human defensin alpha-1 causes <i>Trypanosoma cruzi</i> membrane pore formation and induces DNA fragmentation, which leads to trypanosome destruction. 2007 , 75, 4780-91	51
1966	<i>Burkholderia cenocepacia</i> requires a periplasmic HtrA protease for growth under thermal and osmotic stress and for survival in vivo. 2007 , 75, 1679-89	70
1965	The struggle for iron: gastrointestinal microbes modulate the host immune response during infection. 2007 , 81, 393-400	43
1964	Protease-activated receptor 2 mediates human beta-defensin 2 and CC chemokine ligand 20 mRNA expression in response to proteases secreted by <i>Porphyromonas gingivalis</i> . 2007 , 75, 4326-33	69
1963	Leukotriene B4 triggers the in vitro and in vivo release of potent antimicrobial agents. 2007 , 178, 8036-45	61
1962	Increasing the recruitment of neutrophils to the site of infection dramatically attenuates <i>Borrelia burgdorferi</i> infectivity. 2007 , 178, 5109-15	40
1961	Human immature monocyte-derived dendritic cells produce and secrete alpha-defensins 1-3. 2007 , 82, 1143-6	43
1960	The antimicrobial peptide LL-37 inhibits HIV-1 replication. 2007 , 5, 410-5	169
1959	CXCL16 is a novel mediator of the innate immunity of epidermal keratinocytes. 2007 , 19, 1095-102	48
1958	Avian antimicrobial proteins: structure, distribution and activity. 2007 , 63, 421-438	35
1957	Vitamin D3 and the immune system: maintaining the balance in health and disease. 2007 , 20, 106-18	44
1956	SufA--a novel subtilisin-like serine proteinase of <i>Fingoldia magna</i> . 2007 , 153, 4208-4218	33
1955	.	
1954	A novel horse alpha-defensin: gene transcription, recombinant expression and characterization of the structure and function. 2007 , 407, 267-76	16
1953	Trapping and apoptosis of novel subsets of memory T lymphocytes expressing CCR6 in the spleen of HIV-infected patients. 2007 , 109, 3649-57	21
1952	Alpha-defensins block the early steps of HIV-1 infection: interference with the binding of gp120 to CD4. 2007 , 109, 2928-35	89

1951	Defensins and cathelicidins in gastrointestinal infections. 2007 , 23, 32-8	89
1950	Rab27a is a key component of the secretory machinery of azurophilic granules in granulocytes. 2007 , 402, 229-39	66
1949	The relationship of meteorological conditions to the epidemic activity of respiratory syncytial virus. 2007 , 135, 1077-90	157
1948	The intestinal epithelial barrier: how to distinguish between the microbial flora and pathogens. 2007 , 19, 106-15	125
1947	Paneth cells, defensins, and the commensal microbiota: a hypothesis on intimate interplay at the intestinal mucosa. 2007 , 19, 70-83	299
1946	Glucose regulation of beta-defensin-1 mRNA in human renal cells. 2007 , 353, 318-23	29
1945	Intein-mediated expression is an effective approach in the study of beta-defensins. 2007 , 357, 840-6	34
1944	Potato aspartic proteases (StAPs) exert cytotoxic activity on bovine and human spermatozoa. 2007 , 88, 1248-55	5
1943	Impact of pro segments on the folding and function of human neutrophil alpha-defensins. 2007 , 368, 537-49	28
1942	The anti-inflammatory activities of <i>Staphylococcus aureus</i> . 2007 , 28, 408-18	66
1941	Discovery of multiple beta-defensin like homologues in teleost fish. 2007 , 44, 638-47	151
1940	Gene characterisation, isoforms and recombinant expression of carcinin, an antibacterial protein from the shore crab, <i>Carcinus maenas</i> . 2007 , 44, 943-9	51
1939	Differential effect of insulin treatment on decreased levels of beta-defensins and Toll-like receptors in diabetic rats. 2007 , 44, 796-802	31
1938	Circadian oscillation of innate immunity components in mouse small intestine. 2007 , 44, 1954-60	80
1937	Various human epithelial cells express functional Toll-like receptors, NOD1 and NOD2 to produce anti-microbial peptides, but not proinflammatory cytokines. 2007 , 44, 3100-11	247
1936	Human neutrophil peptide-1 inhibits both the classical and the lectin pathway of complement activation. 2007 , 44, 3608-14	36
1935	Therapeutic implications of the TLR and VDR partnership. 2007 , 13, 117-24	84
1934	Structure-dependent functional properties of human defensin 5. 2007 , 581, 515-20	60

1933 Epithelial Cells: Immunological Aspects. **2007**,

1932 Antimicrobial activity and protease stability of peptides containing fluorinated amino acids. **2007**, 129, 15615-22 199

1931 Host-microbe interaction: mechanisms of defensin deficiency in Crohn's disease. **2007**, 5, 1049-57 10

1930 Leukotriene B4-mediated release of antimicrobial peptides against cytomegalovirus is BLT1 dependent. **2007**, 20, 407-20 33

1929 A-defensin mutation causes black coat color in domestic dogs. **2007**, 318, 1418-23 266

1928 De novo design of selective antibiotic peptides by incorporation of unnatural amino acids. **2007**, 50, 3026-36 54

1927 Cathelicidins and functional analogues as antiseptis molecules. **2007**, 11, 993-1004 85

1926 Comparison of electrokinetics-based multidimensional separations coupled with electrospray ionization-tandem mass spectrometry for characterization of human salivary proteins. **2007**, 79, 5785-92 60

1925 Defensins knowledgebase: a manually curated database and information source focused on the defensins family of antimicrobial peptides. **2007**, 35, D265-8 103

1924 Human beta-defensin-2: a natural antimicrobial peptide present in amniotic fluid participates in the host response to microbial invasion of the amniotic cavity. **2007**, 20, 15-22 66

1923 Identification of specific protein markers in microdissected hepatocellular carcinoma. **2007**, 6, 306-15 47

1922 More than their sum in your parts: the mechanisms that underpin the mutually advantageous relationship between HIV and sexually transmitted infections. **2007**, 4, 237-246 24

1921 Characterization of an antibacterial peptide from indian cobra (*Naja naja*) venom. **2007**, 13, 8

1920 The immunological response and strategies for intervention. **2007**, 310-324 5

1919 . **2007**, 3

1918 Solution structure of a novel D-naphthylalanine substituted peptide with potential antibacterial and antifungal activities. **2007**, 88, 738-45 15

1917 Peptidomics of Short Linear Cytolytic Peptides from Spider Venom. 55-70

1916 Genetics of the innate immune response in inflammatory bowel disease. **2007**, 13, 338-55 56

1915	beta-Defensins chemoattract macrophages and mast cells but not lymphocytes and dendritic cells: CCR6 is not involved. 2007 , 37, 2474-86	113
1914	An integrated analysis of the effects of Esculentin 1-21 on <i>Saccharomyces cerevisiae</i> . 2007 , 1774, 688-700	20
1913	In vitro discriminative antipseudomonal properties resulting from acyl substitution of N-terminal sequence of dermaseptin s4 derivatives. 2007 , 14, 75-85	25
1912	<i>Mycobacterium bovis</i> -mediated induction of human beta-defensin-2 in epithelial cells is controlled by intracellular calcium and p38MAPK. 2007 , 54, 469-74	20
1911	Proteomic analysis reveals successive aberrations in protein expression from healthy mucosa to invasive head and neck cancer. 2007 , 26, 54-64	99
1910	Peptidoglycan recognition proteins: pleiotropic sensors and effectors of antimicrobial defences. 2007 , 5, 264-77	285
1909	Genomic variations within DEFB1 are associated with the susceptibility to and the fatal outcome of severe sepsis in Chinese Han population. 2007 , 8, 439-43	42
1908	Immune regulatory functions of human beta-defensin-2 in odontoblast-like cells. 2007 , 40, 300-7	40
1907	The stage of native biofilm formation determines the gene expression of human beta-defensin-2, psoriasin, ribonuclease 7 and inflammatory mediators: a novel approach for stimulation of keratinocytes with in situ formed biofilms. 2008 , 23, 21-8	33
1906	A major role for intestinal epithelial nucleotide oligomerization domain 1 (NOD1) in eliciting host bactericidal immune responses to <i>Campylobacter jejuni</i> . 2007 , 9, 2404-16	88
1905	Plasma levels of alpha-defensins 1-3 are an indicator of neutrophil activation in pregnant and post-partum women. 2007 , 33, 645-50	5
1904	Role of the <i>Escherichia coli</i> SbmA in the antimicrobial activity of proline-rich peptides. 2007 , 66, 151-63	166
1903	Human variability in innate immunity. 2007 , 45, 14-34	57
1902	Antimicrobial polypeptides are key anti-HIV-1 effector molecules of cervicovaginal host defense. 2008 , 59, 27-34	82
1901	Analysis and prediction of antibacterial peptides. 2007 , 8, 263	181
1900	Inter-population variability of DEFA3 gene absence: correlation with haplotype structure and population variability. 2007 , 8, 14	20
1899	Dual antiviral activity of human alpha-defensin-1 against viral haemorrhagic septicaemia rhabdovirus (VHSV): inactivation of virus particles and induction of a type I interferon-related response. 2007 , 76, 111-23	49
1898	Natural antimicrobial production by the amnion. 2007 , 196, 255.e1-6	46

1897 Bedeutung des angeborenen Immunsystems für Harnwegsinfektionen. **2007**, 155, 210-214

1896 The skin barrier as an innate immune element. **2007**, 29, 3-14 274

1895 Antimicrobial peptides: natural effectors of the innate immune system. **2007**, 29, 27-43 177

1894 Antimicrobial peptide modulation in a differentiated reconstructed gingival epithelium. **2007**, 328, 85-95 6

1893 Immunocytochemical localization of lysozyme and beta-defensin in the apocrine glands of the equine scrotum. **2007**, 299, 393-7 14

1892 Innate immunity: a cutaneous perspective. **2007**, 33, 15-26 23

1891 The role of human innate immune factors in nasal colonization by *Staphylococcus aureus*. **2007**, 9, 1471-7 54

1890 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

1889 [Future treatment options for chronic wounds]. **2008**, 79, 555-9 5

1888 PCR-based gene synthesis, molecular cloning, high level expression, purification, and characterization of novel antimicrobial peptide, brevinin-2R, in *Escherichia coli*. **2008**, 149, 109-18 26

1887 Outsmarting the host: bacteria modulating the immune response. **2008**, 41, 188-202 23

1886 Lysozyme M deficiency leads to an increased susceptibility to *Streptococcus pneumoniae*-induced otitis media. **2008**, 8, 134 42

1885 The immunology of sepsis. **2008**, 214, 211-23 183

1884 High-resolution mapping of the 8p23.1 beta-defensin cluster reveals strictly concordant copy number variation of all genes. **2008**, 29, 1247-54 50

1883 Differential signaling mechanisms of HNP-induced IL-8 production in human lung epithelial cells and monocytes. **2008**, 214, 820-7 26

1882 Viper metalloproteinase (*Agkistrodon halys pallas*) with antimicrobial activity against multi-drug resistant human pathogens. **2008**, 216, 54-68 19

1881 In vitro spermicidal activity of peptides from amphibian skin: dermaseptin S4 and derivatives. **2008**, 16, 266-75 13

1880 Eosinophils and allergic diseases of the gastrointestinal tract. **2008**, 22, 455-79 16

1879	Host antimicrobial proteins as endogenous immunomodulators. 2008 , 119, 4-11	42
1878	Campylobacter jejuni-mediated disease pathogenesis: an update. 2008 , 102, 123-9	107
1877	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
1876	New ligands for melanocortin receptors. 2008 , 32 Suppl 7, S19-27	22
1875	Psoriasis is associated with increased beta-defensin genomic copy number. 2008 , 40, 23-5	519
1874	Epithelial-cell recognition of commensal bacteria and maintenance of immune homeostasis in the gut. <i>Nature Reviews Immunology</i> , 2008 , 8, 411-20	36.5 785
1873	Hypothesis--ultraviolet-B irradiance and vitamin D reduce the risk of viral infections and thus their sequelae, including autoimmune diseases and some cancers. 2008 , 84, 356-65	63
1872	Interaction between seroreactivity to microbial antigens and genetics in Crohn's disease: is there a role for defensins?. 2008 , 71, 552-9	17
1871	Microbicidal protein psoriasin is a multifunctional modulator of neutrophil activation. 2008 , 124, 357-67	77
1870	The dietary histone deacetylase inhibitor sulforaphane induces human beta-defensin-2 in intestinal epithelial cells. 2008 , 125, 241-51	57
1869	Enhanced expression of murine beta-defensins (MBD-1, -2, -3, and -4) in upper and lower airway mucosa of influenza virus infected mice. 2008 , 380, 136-43	52
1868	In vitro activity of dermaseptin S4 derivatives against genital infections pathogens. 2008 , 50, 353-8	9
1867	Directional and balancing selection in human beta-defensins. 2008 , 8, 113	50
1866	Human beta-defensin-1 and -2 and matrix metalloproteinase-25 and -26 expression in chronic and aggressive periodontitis and in peri-implantitis. 2008 , 53, 175-86	59
1865	Necrotizing enterocolitis: recent scientific advances in pathophysiology and prevention. 2008 , 32, 70-82	217
1864	Constitutive expression of the antibacterial CXC chemokine GCP-2/CXCL6 by epithelial cells of the male reproductive tract. 2008 , 79, 37-43	29
1863	A novel beta-defensin structure: a potential strategy of big defensin for overcoming resistance by Gram-positive bacteria. 2008 , 47, 10611-9	30
1862	Interactions between commensal bacteria and the gut-associated immune system of the chicken. 2008 , 9, 101-10	154

1861	Toward full-sequence de novo protein design with flexible templates for human beta-defensin-2. 2008 , 94, 584-99	42
1860	Copy number variation of beta-defensins and relevance to disease. 2008 , 123, 148-55	57
1859	Formation of supported bacterial lipid membrane mimics. 2008 , 3, FA41	66
1858	Defensins versus bacteria: not just antibiotics anymore. 2008 , 134, 2174-7	6
1857	Innate microbial sensors and their relevance to allergy. 2008 , 122, 846-58; quiz 858-60	13
1856	Association of beta-defensin 1 single nucleotide polymorphisms with Crohn's disease. 2008 , 43, 299-307	53
1855	Innate immunity to influenza virus: implications for future therapy. 2008 , 4, 497-514	26
1854	Fusion Expression of Antimicrobial Peptide GK1 in Escherichia coli. 2008 , 24, 21-26	7
1853	Necrotizing enterocolitis. 2008 , 35, 251-72, x	46
1852	Molecular determinants for the interaction of human neutrophil alpha defensin 1 with its propeptide. 2008 , 381, 1281-91	15
1851	Antimicrobial activity of truncated alpha-defensin (human neutrophil peptide (HNP)-1) analogues without disulphide bridges. 2008 , 45, 190-3	39
1850	Expression and antiviral activity of a beta-defensin-like peptide identified in the rainbow trout (<i>Oncorhynchus mykiss</i>) EST sequences. 2008 , 45, 757-65	96
1849	Expression of human beta-defensin 1 is regulated via c-Myc and the biological clock. 2008 , 45, 3163-7	41
1848	Innate immune recognition at the epithelial barrier drives adaptive immunity: APCs take the back seat. 2008 , 29, 41-9	75
1847	Innate immune response to viral infection of the lungs. 2008 , 9, 243-50	45
1846	Antimicrobial peptides, skin infections, and atopic dermatitis. 2008 , 27, 144-50	80
1845	Interaction of antibacterial peptides spanning the carboxy-terminal region of human beta-defensins 1-3 with phospholipids at the air-water interface and inner membrane of E. coli. 2008 , 29, 7-14	13
1844	Avian defensins. 2008 , 124, 1-18	155

1843	Immune response to fungal infections. 2008 , 125, 47-70	141
1842	The role of microbiota in infectious disease. 2008 , 16, 107-14	367
1841	Antimicrobial peptides and bacteriocins: alternatives to traditional antibiotics. 2008 , 9, 227-35	170
1840	Glucose and insulin are needed for optimal defensin expression in human cell lines. 2008 , 367, 452-6	35
1839	Mechanism of adenovirus neutralization by Human alpha-defensins. 2008 , 3, 11-9	144
1838	Arasin 1, a proline-arginine-rich antimicrobial peptide isolated from the spider crab, <i>Hyas araneus</i> . 2008 , 32, 275-85	98
1837	X-tox: an atypical defensin derived family of immune-related proteins specific to Lepidoptera. 2008 , 32, 575-84	22
1836	Crustins: enigmatic WAP domain-containing antibacterial proteins from crustaceans. 2008 , 32, 758-72	178
1835	Bacterial DNA indicated as an important inducer of fish cathelicidins. 2008 , 45, 2352-8	31
1834	Defensins and the dynamic genome: what we can learn from structural variation at human chromosome band 8p23.1. 2008 , 18, 1686-97	68
1833	Bronchiolitis: lingering questions about its definition and the potential role of vitamin D. 2008 , 122, 177-9	25
1832	Lipopolysaccharide, a key molecule involved in the synergism between temporins in inhibiting bacterial growth and in endotoxin neutralization. 2008 , 283, 22907-17	80
1831	Synthesis, structure, and activities of an oral mucosal alpha-defensin from rhesus macaque. 2008 , 283, 35869-77	5
1830	Virulent <i>Shigella flexneri</i> subverts the host innate immune response through manipulation of antimicrobial peptide gene expression. 2008 , 205, 1121-32	118
1829	Cathelicidin administration protects mice from <i>Bacillus anthracis</i> spore challenge. 2008 , 181, 4989-5000	31
1828	The capsule sensitizes <i>Streptococcus pneumoniae</i> to alpha-defensins human neutrophil proteins 1 to 3. 2008 , 76, 3710-6	29
1827	Role of tissue kallikrein-related peptidases in cervical mucus remodeling and host defense. 2008 , 389, 1513-22	44
1826	Midpregnancy vaginal fluid defensins, bacterial vaginosis, and risk of preterm delivery. 2008 , 112, 524-31	26

1825	Genetic variants of the copy number polymorphic beta-defensin locus are associated with sporadic prostate cancer. 2008 , 29, 83-92	22
1824	Staphylococcus aureus evasion of innate antimicrobial defense. 2008 , 3, 437-51	63
1823	Neisseria gonorrhoeae-induced human defensins 5 and 6 increase HIV infectivity: role in enhanced transmission. 2008 , 180, 6176-85	75
1822	Vitamin D and human health: lessons from vitamin D receptor null mice. 2008 , 29, 726-76	1172
1821	Antibacterial chemokines--actors in both innate and adaptive immunity. 2008 , 15, 101-117	22
1820	The conserved salt bridge in human alpha-defensin 5 is required for its precursor processing and proteolytic stability. 2008 , 283, 21509-18	48
1819	Origin of low mammalian cell toxicity in a class of highly active antimicrobial amphipathic helical peptides. 2008 , 283, 18636-45	64
1818	Eosinophil-derived neurotoxin acts as an alarmin to activate the TLR2-MyD88 signal pathway in dendritic cells and enhances Th2 immune responses. 2008 , 205, 79-90	275
1817	Expression of antimicrobial peptides in cecal tonsils of chickens treated with probiotics and infected with Salmonella enterica serovar typhimurium. 2008 , 15, 1689-93	66
1816	Antimicrobial peptides in lung transplant recipients with bronchiolitis obliterans syndrome. 2008 , 32, 670-7	29
1815	Histidine-rich glycoprotein protects from systemic Candida infection. 2008 , 4, e1000116	51
1814	Host defense peptides and the new line of defence against multiresistant infections. 2008 , 15, 238-43	34
1813	Toll-like receptors and cytokines as surrogate biomarkers for evaluating vaginal immune response following microbicide administration. 2008 , 2008, 534532	7
1812	Evaluation of the effect of human beta-defensins on neutrophil apoptosis. 2008 , 20, 543-53	63
1811	Human neutrophil peptides: a novel potential mediator of inflammatory cardiovascular diseases. 2008 , 295, H1817-24	59
1810	Murine beta-defensin 2 promotes TLR-4/MyD88-mediated and NF-kappaB-dependent atypical death of APCs via activation of TNFR2. 2008 , 83, 998-1008	53
1809	Innate and adaptive immunity in the human female reproductive tract: influence of the menstrual cycle and menopause on the mucosal immune system in the uterus. 2008 , 493-523	1
1808	Isolation, synthesis, and antimicrobial activities of naturally occurring theta-defensin isoforms from baboon leukocytes. 2008 , 76, 5883-91	73

1807	Wall teichoic acid deficiency in <i>Staphylococcus aureus</i> confers selective resistance to mammalian group IIA phospholipase A(2) and human beta-defensin 3. 2008 , 76, 2169-76	54
1806	Tumors sound the alarmin(s). 2008 , 68, 6482-5	72
1805	In vitro activation of the rhesus macaque myeloid alpha-defensin precursor proRMAD-4 by neutrophil serine proteinases. 2008 , 283, 32361-8	18
1804	Measuring arsenic exposure, metabolism, and biological effects: the role of urine proteomics. 2008 , 106, 1-4	12
1803	The human CXC chemokine granulocyte chemotactic protein 2 (GCP-2)/CXCL6 possesses membrane-disrupting properties and is antibacterial. 2008 , 52, 2599-607	53
1802	Plasma alpha-defensin is associated with cardiovascular morbidity and mortality in type 1 diabetic patients. 2008 , 93, 1470-5	32
1801	Lamellar bodies of human epidermis: proteomics characterization by high throughput mass spectrometry and possible involvement of CLIP-170 in their trafficking/secretion. 2008 , 7, 2151-75	65
1800	Human alpha- and beta-defensins bind to immobilized adhesins from <i>Porphyromonas gingivalis</i> . 2008 , 76, 5714-20	21
1799	Estradiol selectively regulates innate immune function by polarized human uterine epithelial cells in culture. 2008 , 1, 317-25	91
1798	Endogenous tissue-type plasminogen activator is protective during ascending urinary tract infection. 2009 , 24, 801-8	6
1797	The pathogenic role of intestinal flora in IBD and colon cancer. 2008 , 9, 395-403	38
1796	Soluble MD-2 is an acute-phase protein and an opsonin for Gram-negative bacteria. 2008 , 111, 2122-31	42
1795	Host defense peptides in wound healing. 2008 , 14, 528-37	119
1794	alpha-Defensin levels in whole saliva of totally edentulous subjects. 2008 , 21, 845-9	17
1793	Role of glial cells in the functional expression of LL-37/rat cathelin-related antimicrobial peptide in meningitis. 2008 , 67, 1041-54	56
1792	Molecular pathogenesis of inflammatory bowel disease: relevance for novel therapies. 2008 , 5, 609-626	2
1791	Antimicrobial peptide precursor structures suggest effective production strategies. 2008 , 2, 58-63	23
1790	Skin Structure and Function. 2008 , 16, 113-117	12

1789	Immune response to extracellular bacteria. 2008 , 377-388	1
1788	Snake cathelicidin from <i>Bungarus fasciatus</i> is a potent peptide antibiotics. 2008 , 3, e3217	164
1787	Molecular characterization and related aspects of the innate immune response in ticks. 2008 , 13, 7046-63	61
1786	Cellular and molecular mechanisms of resistance to oral <i>Candida albicans</i> infections. 2008 , 13, 5345-58	29
1785	Host defence peptides: antimicrobial and immunomodulatory activity and potential applications for tackling antibiotic-resistant infections. 2009 , 2, 7078	36
1784	Molecular Basis of Pulmonary Disease. 2009 , 305-364	2
1783	Production of bioactive human alpha-defensin 5 in <i>Pichia pastoris</i> . 2009 , 55, 395-401	18
1782	<i>Clostridium difficile</i> associated infection, diarrhea and colitis. 2009 , 15, 1554-80	212
1781	Comparison of multiplex ligation-dependent probe amplification and real-time PCR accuracy for gene copy number quantification using the beta-defensin locus. 2009 , 47, 1023-8	21
1780	Through the looking glass, mechanistic insights from enantiomeric human defensins. 2009 , 284, 29180-92	84
1779	Alpha-defensins in enteric innate immunity: functional Paneth cell alpha-defensins in mouse colonic lumen. 2009 , 284, 27848-27856	86
1778	Elevation of human alpha-defensins and S100 calcium-binding proteins A8 and A9 in tear fluid of patients with pterygium. 2009 , 50, 2077-86	57
1777	Allelic recombination between distinct genomic locations generates copy number diversity in human beta-defensins. 2009 , 106, 853-8	53
1776	Degradation of human alpha- and beta-defensins by culture supernatants of <i>Porphyromonas gingivalis</i> strain 381. 2009 , 1, 118-22	51
1775	Interactions of alpha-, beta-, and theta-defensins with influenza A virus and surfactant protein D. 2009 , 182, 7878-87	114
1774	Anionic amino acids near the pro-alpha-defensin N terminus mediate inhibition of bactericidal activity in mouse pro-cryptdin-4. 2009 , 284, 6826-31	23
1773	CCR6 regulation of the actin cytoskeleton orchestrates human beta defensin-2- and CCL20-mediated restitution of colonic epithelial cells. 2009 , 284, 10034-45	59
1772	Activated V gamma 9V delta 2 T cells trigger granulocyte functions via MCP-2 release. 2009 , 182, 522-9	31

1771	Defensins in systemic lupus erythematosus. 2009 , 1173, 365-9	18
1770	Tricarboxylic acid cycle-dependent attenuation of <i>Staphylococcus aureus</i> in vivo virulence by selective inhibition of amino acid transport. 2009 , 77, 4256-64	53
1769	Blufensin1 negatively impacts basal defense in response to barley powdery mildew. 2009 , 149, 271-85	53
1768	Intratumoral expression of mature human neutrophil peptide-1 mediates antitumor immunity in mice. 2009 , 15, 6901-11	43
1767	NOD2/CARD15 on bone marrow CD34+ hematopoietic cells mediates induction of cytokines and cell differentiation. 2009 , 85, 939-46	31
1766	HIV type 1 fails to trigger innate immune factor synthesis in differentiated oral epithelium. 2009 , 25, 1013-21	7
1765	Barrier functions of human skin: a holistic view. 2009 , 22, 178-89	57
1764	Multifunctional antimicrobial proteins and peptides: natural activators of immune systems. 2009 , 15, 2393-413	66
1763	In vivo release of alpha-defensins in plasma, neutrophils and CD8 T-lymphocytes of patients with HIV infection. 2009 , 7, 650-5	10
1762	Defensins in viral infections. 2009 , 1, 413-20	73
1761	Human neutrophil peptides and phagocytic deficiency in bronchiectatic lungs. 2009 , 180, 159-66	38
1760	The Intestinal Immune Barrier. 2009 , 10, e180-e190	12
1759	Regulation of HBD2 gene expression by lentinan in human pulmonary epithelial cells. 2009 , 20, 221-230	1
1758	Human defensins activate monocyte-derived dendritic cells, promote the production of proinflammatory cytokines, and up-regulate the surface expression of CD91. 2009 , 86, 941-8	74
1757	Stimulation of specific cytokines in human conjunctival epithelial cells by defensins HNP1, HBD2, and HBD3. 2009 , 50, 644-53	13
1756	Contributions of two UDP-glucose dehydrogenases to viability and polymyxin B resistance of <i>Burkholderia cenocepacia</i> . 2009 , 155, 2029-2039	28
1755	Dermcidin-derived peptides show a different mode of action than the cathelicidin LL-37 against <i>Staphylococcus aureus</i> . 2009 , 53, 2499-509	52
1754	Phenotypic and genotypic characteristics of persistent methicillin-resistant <i>Staphylococcus aureus</i> bacteremia in vitro and in an experimental endocarditis model. 2009 , 199, 201-8	86

1753	Potent and broad-spectrum antimicrobial activity of CXCL14 suggests an immediate role in skin infections. 2009 , 182, 507-14	68
1752	Antifungal peptides secreted by filamentous fungi as promising new agents in human therapy. 2009 , 4, 261-3	2
1751	How intestinal epithelial cells tolerise dendritic cells and its relevance to inflammatory bowel disease. 2009 , 58, 1291-9	39
1750	Antimicrobial host defense peptides in an arteriviral infection: differential peptide expression and virus inactivation. 2009 , 22, 235-42	19
1749	Primary immune deficiencies affecting lymphocyte differentiation: lessons from the spectrum of resulting infections. 2009 , 21, 1003-11	18
1748	Expression and regulation of antimicrobial peptide rCRAMP after bacterial infection in primary rat meningeal cells. 2009 , 217, 55-64	20
1747	Potential of immunomodulatory host defense peptides as novel anti-infectives. 2009 , 27, 582-90	164
1746	Accurate determination of copy number variations (CNVs): application to the alpha- and beta-defensin CNVs. 2009 , 344, 35-44	13
1745	Streptococcus pneumoniae nasopharyngeal colonization induces type I interferons and interferon-induced gene expression. 2009 , 10, 404	38
1744	Manual annotation and analysis of the defensin gene cluster in the C57BL/6J mouse reference genome. 2009 , 10, 606	35
1743	The repertoire of equine intestinal alpha-defensins. 2009 , 10, 631	19
1742	Transcriptional profiling avian beta-defensins in chicken oviduct epithelial cells before and after infection with Salmonella enterica serovar Enteritidis. 2009 , 9, 153	53
1741	Insights into adenovirus host cell interactions from structural studies. 2009 , 384, 380-8	79
1740	Selective arginines are important for the antibacterial activity and host cell interaction of human alpha-defensin 5. 2009 , 583, 2507-12	53
1739	Defensin-immunology in inflammatory bowel disease. 2009 , 33 Suppl 3, S137-44	23
1738	How nature morphs peptide scaffolds into antibiotics. 2009 , 10, 34-53	106
1737	Salivary antimicrobial peptides (LL-37 and alpha-defensins HNP1-3), antimicrobial and IgA responses to prolonged exercise. 2009 , 106, 277-84	43
1736	The antimicrobial peptide HBD-2 and the Toll-like receptors-2 and -4 are induced in synovial membranes in case of septic arthritis. 2009 , 454, 685-94	26

1735	Synthetic nonamer peptides derived from insect defensin mediate the killing of African trypanosomes in axenic culture. 2009 , 105, 217-25	7
1734	Vitamin D and Innate Immunity. 2009 , 7, 176-184	1
1733	Identification and characterization of a novel antibacterial peptide, avian beta-defensin 2 from ducks. 2009 , 47, 610-8	25
1732	Comparative Activities of Cattle and Swine Platelet Microbicidal Proteins. 2009 , 1, 148	7
1731	Factors that deregulate the protective immune response in tuberculosis. 2009 , 57, 355-67	34
1730	Helicobacter pylori induces the release of alpha-defensin by human granulocytes. 2009 , 58, 241-7	9
1729	Concentrations of alpha- and beta-defensins in plasma of patients with inflammatory bowel disease. 2009 , 58, 192-7	32
1728	Expression of endogenous antimicrobial peptides in normal canine skin. 2009 , 20, 19-26	26
1727	Signalling mechanisms for Toll-like receptor-activated neutrophil exocytosis: key roles for interleukin-1-receptor-associated kinase-4 and phosphatidylinositol 3-kinase but not Toll/IL-1 receptor (TIR) domain-containing adaptor inducing IFN-beta (TRIF). 2009 , 127, 386-97	32
1726	High alpha-defensin levels in patients with systemic lupus erythematosus. 2009 , 127, 116-22	51
1725	Enhanced expression of the antimicrobial peptide LL-37 in lesional skin of adults with atopic eczema. 2009 , 161, 40-7	54
1724	Differences in virulence and immune response induced in a murine model by isolates of Mycobacterium ulcerans from different geographic areas. 2009 , 157, 271-81	19
1723	Production of an Arabidopsis halleri foliar defensin in Escherichia coli. 2009 , 106, 1640-8	12
1722	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
1721	Defensin is suppressed by tick salivary gland extract during the in vitro interaction of resident skin cells with Borrelia burgdorferi. 2009 , 129, 2515-7	28
1720	Impaired mobilization of hematopoietic stem/progenitor cells in C5-deficient mice supports the pivotal involvement of innate immunity in this process and reveals novel promobilization effects of granulocytes. 2009 , 23, 2052-62	115
1719	Toll-like receptors and cancer. 2009 , 9, 57-63	664
1718	Antimicrobial peptides of the oral cavity. 2009 , 51, 152-80	116

1717	Dermatology in the Darwin anniversary. Part 2: Evolution of the skin-associated immune system. 2009 , 7, 862-9	11
1716	Dermatologie im Darwin-Jahr. Teil 2: Die Evolution des hautassoziierten Immunsystems. 2009 , 7, 862-870	3
1715	Multifunctional host defense peptides: antimicrobial peptides, the small yet big players in innate and adaptive immunity. 2009 , 276, 6497-508	135
1714	Toll-like receptor-4 (TLR4) mediates human beta-defensin-2 (HBD-2) induction in response to <i>Chlamydia pneumoniae</i> in mononuclear cells. 2009 , 57, 116-24	27
1713	Loss of human beta-defensin 1, 2, and 3 expression in oral squamous cell carcinoma. 2009 , 24, 353-60	58
1712	Relevance of the genetic polymorphism of NOD1 in <i>Chlamydia pneumoniae</i> seropositive stroke patients. 2009 , 16, 1224-9	14
1711	Predicting alternative candidates as binding sites to DEFB1 668 (-44) SNP: a long way from statistical association with multifactorial diseases. 2009 , 9, 1129-31	4
1710	SNP 668C (-44) alters a NF-kappaB1 putative binding site in non-coding strand of human beta-defensin 1 (DEFB1) and is associated with lepromatous leprosy. 2009 , 9, 617-25	40
1709	Bacterial population and innate immunity-related genes in rat gastrointestinal tract are altered by vitamin A-deficient diet. 2009 , 20, 70-7	51
1708	Human defensins as cancer biomarkers and antitumour molecules. 2009 , 72, 918-27	103
1707	Hemoglobin Transcript Abundance in a cDNA Library from Bone Marrow of Crested Ducks (<i>Lophonetta specularioides</i>) in the Peruvian High Andes. 2009 , 126, 666-672	5
1706	Comprehensive defensin assay for saliva. 2009 , 81, 557-66	17
1705	Effects of pig antibacterial peptides on growth performance and intestine mucosal immune of broiler chickens. 2009 , 88, 291-7	43
1704	Effects of swine gut antimicrobial peptides on the intestinal mucosal immunity in specific-pathogen-free chickens. 2009 , 88, 967-74	36
1703	Interaction of contraceptive antimicrobial peptide nisin with target cell membranes: implications for use as vaginal microbicide. 2009 , 80, 299-307	13
1702	Porcine host defense peptides: expanding repertoire and functions. 2009 , 33, 334-43	115
1701	Antimicrobial activity-specific to Gram-negative bacteria and immune modulation-mediated NF-kappaB and Sp1 of a medaka beta-defensin. 2009 , 33, 624-37	60
1700	Characterization of two isoforms of Japanese spiny lobster <i>Panulirus japonicus</i> defensin cDNA. 2009 , 33, 434-8	18

1699	A double WAP domain (DWD)-containing protein with proteinase inhibitory activity in Chinese white shrimp, <i>Fenneropenaeus chinensis</i> . 2009 , 154, 203-10	40
1698	Antimicrobial peptide mimics for improved therapeutic properties. 2009 , 1788, 1582-92	208
1697	Expression of human beta-defensin-2 gene induced by CpG-DNA in human B cells. 2009 , 389, 443-8	14
1696	Molecular cloning and characterization of lingual antimicrobial peptide cDNA of <i>Bubalus bubalis</i> . 2009 , 86, 91-7	1
1695	Antimicrobial properties of the equine alpha-defensin DEFA1 against bacterial horse pathogens. 2009 , 130, 102-6	7
1694	Antimicrobial human beta-defensin-2 stimulates migration, proliferation and tube formation of human umbilical vein endothelial cells. 2009 , 30, 267-72	88
1693	Using reduced amino acid composition to predict defensin family and subfamily: Integrating similarity measure and structural alphabet. 2009 , 30, 1788-93	37
1692	Defensins gene expression in tissues of the crossbred and Tibetan pigs. 2009 , 123, 161-168	18
1691	[Vitamin D as immunity element against infection]. 2009 , 133, 344-8	1
1690	Discovery of <i>Anas platyrhynchos</i> avian beta-defensin 2 (Apl_AvBD2) with antibacterial and chemotactic functions. 2009 , 46, 2029-38	36
1689	Design and activity of a 'dual-targeted' antimicrobial peptide. 2009 , 33, 532-7	49
1688	Chapter 5 Lyme Disease Spirochete-Host Interactions. 2009 , 243-296	3
1687	The role of antimicrobial peptides at the ocular surface. 2009 , 41, 60-75	100
1686	Acquisition, evolution and maintenance of the normal gut microbiota. 2009 , 27 Suppl 1, 90-8	36
1685	Systems biology evaluation of immune responses induced by human host defence peptide LL-37 in mononuclear cells. 2009 , 5, 483-96	75
1684	<i>Spodoptera frugiperda</i> X-tox protein, an immune related defensin rosary, has lost the function of ancestral defensins. 2009 , 4, e6795	16
1683	Alarmins and antimicrobial immunity. 2009 , 47 Suppl 1, S146-53	14
1682	A novel beta-defensin structure: big defensin changes its N-terminal structure to associate with the target membrane. 2009 , 48, 7629-35	14

1681	Respiratory viruses in bronchiolitis and their link to recurrent wheezing and asthma. 2009 , 29, 741-55	21
1680	Differential expression pattern of genes encoding for anti-microbial peptides in the fetal membranes of patients with spontaneous preterm labor and intact membranes and those with preterm prelabor rupture of the membranes. 2009 , 22, 1103-15	33
1679	Board-invited review: porcine mucosal immunity of the gastrointestinal tract. 2009 , 87, 1493-501	52
1678	Potential role of human beta-defensin 1 in Helicobacter pylori-induced gastritis. 2009 , 44, 289-95	21
1677	Toll-like receptor 2 is critical for induction of Reg3 beta expression and intestinal clearance of Yersinia pseudotuberculosis. 2009 , 58, 771-6	78
1676	Existence of functional lingual antimicrobial peptide in bovine milk. 2009 , 92, 2691-5	42
1675	Intramammary challenge of lipopolysaccharide stimulates secretion of lingual antimicrobial peptide into milk of dairy cows. 2009 , 92, 6046-51	42
1674	Host defence peptides: antimicrobial and immunomodulatory activity and potential applications for tackling antibiotic-resistant infections. 2009 , 2, e1	76
1673	Application of natural antimicrobials for food preservation. 2009 , 57, 5987-6000	482
1672	Antimicrobial peptides as model molecules for the development of novel antiviral agents in aquaculture. 2009 , 9, 1159-64	37
1671	Adaptive Immune Responses during Salmonella Infection. 2009 , 3,	4
1670	Solution Structure and Model Membrane Interactions of P-113, a Clinically Active Antimicrobial Peptide Derived from Human Saliva. 2009 , 56, 961-966	4
1669	Efficient production of human beta-defensin 2 (HBD2) in Escherichia coli. 2009 , 16, 668-76	15
1668	The roles of antimicrobial peptides in innate host defense. 2009 , 15, 2377-92	382
1667	Antimicrobial peptides present in mammalian skin and gut are multifunctional defence molecules. 2010 , 16, 1024-39	32
1666	Plant antimicrobial peptides: an overview of SuperSAGE transcriptional profile and a functional review. 2010 , 11, 220-30	20
1665	Host Defense Peptides: Bridging Antimicrobial and Immunomodulatory Activities*. 2010 , 175-216	1
1664	Antimicrobial lipids: novel innate defense molecules are elevated in sinus secretions of patients with chronic rhinosinusitis. 2010 , 24, 99-104	29

1663	Inhibition of HSV-1 replication by laser diode-irradiation: possible mechanism of action. 2010 , 23, 1167-76	26
1662	The Application of Cationic Antimicrobial Peptides in Cancer Treatment: Laboratory Investigations and Clinical Potential. 2010 , 309-332	3
1661	Increased genomic copy number of DEFA1/DEFA3 is associated with susceptibility to severe sepsis in Chinese Han population. 2010 , 112, 1428-34	37
1660	Functional relationship between cationic amino acid transporters and beta-defensins: implications for dry skin diseases and the dry eye. 2010 , 192, 65-9	10
1659	Functional properties of feline foot pads as studied by lectin histochemical and immunohistochemical methods. 2010 , 112, 169-77	7
1658	When two is better than one: macrophages and neutrophils work in concert in innate immunity as complementary and cooperative partners of a myeloid phagocyte system. 2010 , 87, 93-106	206
1657	Kallikrein-related peptidases: bridges between immune functions and extracellular matrix degradation. 2010 , 391, 321-31	48
1656	Antimicrobial peptides in the brain. 2010 , 58, 365-77	17
1655	3D (13)C-(13)C-(13)C correlation NMR for de novo distance determination of solid proteins and application to a human alpha-defensin. 2010 , 202, 203-10	24
1654	Mutative expression in <i>Candida albicans</i> infection and cytokine signaling network in gene knockout mice. 2010 , 29, 913-6	2
1653	Human beta-defensin-2 increases cholinergic response in colon epithelium. 2010 , 460, 177-86	4
1652	Effects of human defensin-4 on <i>Trypanosoma cruzi</i> trypomastigotes in vitro. 2010 , 149, 731-3	3
1651	Construction and expression of rabbit neutrophil peptide-1 gene in <i>Escherichia coli</i> . 2010 , 60, 329-334	4
1650	Parasitocidal activity of human alpha-defensin-5 against <i>Toxoplasma gondii</i> . 2010 , 46, 560-5	25
1649	Preoperative concurrent paclitaxel-radiation in locally advanced breast cancer: pathologic response correlates with five-year overall survival. 2010 , 124, 723-32	57
1648	Squamous carcinoma cells influence monocyte phenotype and suppress lipopolysaccharide-induced TNF-alpha in monocytes. 2010 , 33, 207-23	9
1647	Different messenger RNA expression for the antimicrobial peptides beta-defensins between Meishan and crossbred pigs. 2010 , 37, 1633-9	17
1646	AntiBP2: improved version of antibacterial peptide prediction. 2010 , 11 Suppl 1, S19	132

1645	Haplotyping and copy number estimation of the highly polymorphic human beta-defensin locus on 8p23 by 454 amplicon sequencing. 2010 , 11, 252	17
1644	Gallin; an antimicrobial peptide member of a new avian defensin family, the ovodefensins, has been subject to recent gene duplication. 2010 , 11, 12	61
1643	Antimicrobial peptides: general overview and clinical implications in human health and disease. 2010 , 135, 1-11	392
1642	Functional interaction of human neutrophil peptide-1 with the cell wall precursor lipid II. 2010 , 584, 1543-8	156
1641	Rational design of tryptophan-rich antimicrobial peptides with enhanced antimicrobial activities and specificities. 2010 , 11, 2273-82	24
1640	Defensin carriers for better mucosal immunity in the digestive system. 2010 , 393, 263-7	3
1639	Antimicrobial peptides derived from goose egg white lysozyme. 2010 , 151, 84-91	25
1638	The sound of silence: human beta-defensin-1 gene untranslated SNPs change the predicted mRNA secondary structure in a length-dependent manner. 2010 , 129, 53-5	15
1637	Crystallization and preliminary X-ray analysis of cecropin B from Bombyx mori. 2010 , 66, 851-3	2
1636	Differential and coordinated expression of defensins and cytokines by gingival epithelial cells and dendritic cells in response to oral bacteria. 2010 , 11, 37	37
1635	Novel antimicrobial peptides identified from an endoparasitic wasp cDNA library. 2010 , 16, 58-64	20
1634	Improved antimicrobial activity of h-lysozyme (107-115) by rational Ala substitution. 2010 , 16, 424-9	7
1633	Defensins in the oral cavity: distribution and biological role. 2010 , 39, 1-9	41
1632	Rab27a and Rab27b regulate neutrophil azurophilic granule exocytosis and NADPH oxidase activity by independent mechanisms. 2010 , 11, 533-47	80
1631	Sex hormone regulation of innate immunity in the female reproductive tract: the role of epithelial cells in balancing reproductive potential with protection against sexually transmitted pathogens. 2010 , 63, 544-65	171
1630	HIV infection in the female genital tract: discrete influence of the local mucosal microenvironment. 2010 , 63, 566-75	38
1629	Interleukin-27 as a negative regulator of human neutrophil function. 2010 , 72, 284-92	25
1628	Antimicrobial peptides and their use in medicine. 2010 , 46, 803-814	32

1627	Antimicrobial and other oligopeptides of grapes. 2010 , 75, 214-23	2
1626	A synthetic DNA transplant. 2010 , 28, 687-9	7
1625	Antibiotic leads challenge conventional wisdom. 2010 , 28, 689	
1624	In vitro tests of natural allelic variation of innate immune genes (avian α -defensins) reveal functional differences in microbial inhibition. 2010 , 23, 2726-30	22
1623	Chromogranin A detection in saliva of type 2 diabetes patients. 2010 , 10, 2-8	14
1622	Corneal Epithelium: Response to Infection. 2010 , 442-448	2
1621	. 2010 ,	6
1620	Specificity in killing pathogens is mediated by distinct repertoires of human neutrophil peptides. 2010 , 2, 508-21	24
1619	Neutrophil alpha-defensins cause lung injury by disrupting the capillary-epithelial barrier. 2010 , 181, 935-46	63
1618	Trp-26 imparts functional versatility to human alpha-defensin HNP1. 2010 , 285, 16275-85	50
1617	Haemophilus ducreyi SapA contributes to cathelicidin resistance and virulence in humans. 2010 , 78, 1176-84	33
1616	Antimicrobial peptides human beta-defensins and cathelicidin LL-37 induce the secretion of a pruritogenic cytokine IL-31 by human mast cells. 2010 , 184, 3526-34	196
1615	Measurement methods and accuracy in copy number variation: failure to replicate associations of beta-defensin copy number with Crohn's disease. 2010 , 19, 4930-8	78
1614	Comparative genomics and evolution of the alpha-defensin multigene family in primates. 2010 , 27, 2333-43	25
1613	Cigarette smoke enhances β -defensin 2 expression in rat airways via nuclear factor- κ B activation. 2010 , 36, 638-45	30
1612	Antimicrobial anxiety: the impact of stress on antimicrobial immunity. 2010 , 88, 263-77	24
1611	Purification and characterization of avian beta-defensin 11, an antimicrobial peptide of the hen egg. 2010 , 54, 4401-9	51
1610	Epimorphic regeneration approach to tissue replacement in adult mammals. 2010 , 107, 3351-5	131

1609	Thiazolyl peptide antibiotic biosynthesis: a cascade of post-translational modifications on ribosomal nascent proteins. 2010 , 285, 27525-31	84
1608	The putative role of human peritoneal adipocytes in the fight against bacteria: synthesis of the antimicrobial active peptide DEFA1-3. 2010 , 115, e96-100	8
1607	Antimicrobial peptides in gastrointestinal inflammation. 2010 , 2010, 910283	32
1606	Spotlight on Human LL-37, an Immunomodulatory Peptide with Promising Cell-Penetrating Properties. 2010 , 3, 3435-3460	25
1605	Toll-like receptor 2 ligand-induced protection against bacterial endophthalmitis. 2010 , 201, 255-63	56
1604	Synthetic cationic peptide IDR-1002 provides protection against bacterial infections through chemokine induction and enhanced leukocyte recruitment. 2010 , 184, 2539-50	160
1603	Different effects of transcriptional regulators MarA, SoxS and Rob on susceptibility of Escherichia coli to cationic antimicrobial peptides (CAMPs): Rob-dependent CAMP induction of the marRAB operon. 2010 , 156, 570-578	34
1602	Differential epithelial cell response upon stimulation with the Aggregatibacter actinomycetemcomitans strains VT 1169, VT 1560 DAM? and ATCC 4318. 2010 , 5, 710-5	3
1601	Feeding the BT cationic peptides to chickens at hatch reduces cecal colonization by Salmonella enterica serovar Enteritidis and primes innate immune cell functional activity. 2010 , 7, 23-30	13
1600	Association of higher DEFB4 genomic copy number with Crohn's disease. 2010 , 105, 354-9	75
1599	A molecular dynamics study of human defensins HBD-1 and HNP-3 in water. 2010 , 27, 541-50	29
1598	Characterization of host responses against a recombinant fowlpox virus-vectored vaccine expressing the hemagglutinin antigen of an avian influenza virus. 2010 , 17, 454-63	24
1597	Midkine and pleiotrophin have bactericidal properties: preserved antibacterial activity in a family of heparin-binding growth factors during evolution. 2010 , 285, 16105-15	35
1596	C-terminal peptides of tissue factor pathway inhibitor are novel host defense molecules. 2010 , 285, 28387-98	51
1595	Innate immune recognition in infectious and noninfectious diseases of the lung. 2010 , 181, 1294-309	188
1594	Defensin-barbed innate immunity: clinical associations in the pediatric population. 2010 , 125, 1237-47	32
1593	Global reemergence of tuberculosis: are host defense peptides an option to ameliorate disease burden?. 2010 , 16, 1-7	2
1592	Both copy number and sequence variations affect expression of human DEFB4. 2010 , 11, 458-66	38

1591	Gene expression patterns of dengue virus-infected children from nicaragua reveal a distinct signature of increased metabolism. 2010 , 4, e710	46
1590	Immunological perspectives of leishmaniasis. 2010 , 2, 135-46	108
1589	The Functional Genomics of Inbreeding Depression: A New Approach to an Old Problem. 2010 , 60, 267-277	32
1588	Insight into the mechanisms of adenovirus capsid disassembly from studies of defensin neutralization. 2010 , 6, e1000959	94
1587	Proteolysis of human thrombin generates novel host defense peptides. 2010 , 6, e1000857	112
1586	Swine intestine antimicrobial peptides inhibit infectious bronchitis virus infectivity in chick embryos. 2010 , 89, 464-9	10
1585	Toxicology of the Skin. 2010 ,	23
1584	Identification of markers of taxane sensitivity using proteomic and genomic analyses of breast tumors from patients receiving neoadjuvant paclitaxel and radiation. 2010 , 16, 681-90	143
1583	Klebsiella pneumoniae capsule polysaccharide impedes the expression of beta-defensins by airway epithelial cells. 2010 , 78, 1135-46	80
1582	Evaluation of the effect of β defensin human neutrophil peptides on neutrophil apoptosis. 2010 , 26, 925-34	18
1581	Staphylococcus colonization of the skin and antimicrobial peptides. 2010 , 5, 183-195	146
1580	Novel synthetic, salt-resistant analogs of human beta-defensins 1 and 3 endowed with enhanced antimicrobial activity. 2010 , 54, 2312-22	89
1579	Polymorphisms of beta defensins are associated with the risk of severe acute pancreatitis. 2010 , 10, 483-90	15
1578	Immune responses against Marek's disease virus. 2010 , 11, 123-34	23
1577	Intestinal bacteria and the regulation of immune cell homeostasis. 2010 , 28, 623-67	403
1576	Secreted virulence factor comparison between methicillin-resistant and methicillin-sensitive Staphylococcus aureus, and its relevance to atopic dermatitis. 2010 , 125, 39-49	139
1575	Evolution of a cluster of innate immune genes (beta-defensins) along the ancestral lines of chicken and zebra finch. 2010 , 6, 3	46
1574	Interaction of human β defensin 2 (HBD2) with glycosaminoglycans. 2010 , 49, 10486-95	40

1573	Expanding the dipeptidyl peptidase 4-regulated peptidome via an optimized peptidomics platform. 2010 , 132, 3819-30	53
1572	Effect of proinflammatory cytokines on the expression and regulation of human beta-defensin 2 in human dental pulp cells. 2010 , 36, 64-9	29
1571	Resonance assignment and three-dimensional structure determination of a human alpha-defensin, HNP-1, by solid-state NMR. 2010 , 397, 408-22	37
1570	Defensin from disk abalone <i>Haliotis discus discus</i> : molecular cloning, sequence characterization and immune response against bacterial infection. 2010 , 28, 261-6	45
1569	Structural determinants of host defense peptides for antimicrobial activity and target cell selectivity. 2010 , 92, 1236-41	201
1568	Expression profiles of viral responsive genes in oral and oropharyngeal cancers. 2010 , 46, 1153-8	8
1567	Battle and balance at mucosal surfaces--the story of <i>Shigella</i> and antimicrobial peptides. 2010 , 396, 116-9	26
1566	cDNA sequence and expression analysis of an antimicrobial peptide, theromacin, in the triangle-shell pearl mussel <i>Hyriopsis cumingii</i> . 2010 , 157, 119-26	29
1565	Inhibition of bactericidal activity is maintained in a mouse alpha-defensin precursor with proregion truncations. 2010 , 31, 9-15	4
1564	Antiviral activity by fish antimicrobial peptides of epinecidin-1 and hepcidin 1-5 against nervous necrosis virus in medaka. 2010 , 31, 1026-33	74
1563	S-thanatin enhances the efficacy of tigecycline in an experimental rat model of polymicrobial peritonitis. 2010 , 31, 1231-6	5
1562	Evaluation of the epinecidin-1 peptide as an active ingredient in cleaning solutions against pathogens. 2010 , 31, 1449-58	17
1561	Chicken intestine defensins activated murine peripheral blood mononuclear cells through the TLR4-NF-kappaB pathway. 2010 , 133, 59-65	22
1560	Expression of beta-defensins in the canine respiratory tract and antimicrobial activity against <i>Bordetella bronchiseptica</i> . 2010 , 135, 12-19	22
1559	Biological versatility of crotamine--a cationic peptide from the venom of a South American rattlesnake. 2010 , 19, 1515-25	26
1558	<i>Malassezia</i> Yeasts in Seborrheic and Atopic Eczemas. 2010 , 201-228	9
1557	Role of innate host defenses in susceptibility to early-onset neonatal sepsis. 2010 , 37, 307-37	107
1556	Novel lipid mediators and resolution mechanisms in acute inflammation: to resolve or not?. 2010 , 177, 1576-91	320

1555 Innate immunity. **2010**, 5, 131-136

1554 Pathogenic Yeasts. **2010**,

5

1553 Human defensins and LL-37 in mucosal immunity. **2010**, 87, 79-92

171

1552 Marsupial Genetics and Genomics. **2010**,

5

1551 Malassezia and the Skin. **2010**,

34

1550 Malassezia Species and Immunity: HostPathogen Interactions. **2010**, 139-173

3

1549 The membrane-bound structure and topology of a human α -defensin indicate a dimer pore mechanism for membrane disruption. **2010**, 49, 9770-82

66

1548 Limiting an antimicrobial peptide to the lipid-water interface enhances its bacterial membrane selectivity: a case study of MSI-367. **2010**, 49, 10595-605

57

1547 Characterization of human neutrophil peptides (α -Defensins) in the tears of dry eye patients. **2010**, 2, 1934

8

1546 Cationic antimicrobial peptides: a physical basis for their selective membrane-disrupting activity. **2010**, 6, 1933

13

1545 The corneal expression of antimicrobial peptides during experimental fungal keratitis. **2010**, 35, 872-9

17

1544 Targeted antimicrobial moieties (WO2010080819): patent evaluation. **2011**, 21, 593-600

1543 Antimicrobial peptides in periodontal innate defense. **2012**, 15, 84-98

61

1542 Neutrophil elastase inhibitors. **2011**, 21, 339-54

65

1541 Mediators of systemic inflammatory response syndrome and the role of recombinant activated protein C in sepsis syndrome. **2011**, 25, 835-50

9

1540 An isolated cryptic peptide influences osteogenesis and bone remodeling in an adult mammalian model of digit amputation. **2011**, 17, 3033-44

64

1539 Criterion for amino acid composition of defensins and antimicrobial peptides based on geometry of membrane destabilization. **2011**, 133, 6720-7

158

1538 Protein Interactions with Biomaterials. **2011**, 63-73

9

1537	Use of antimicrobial peptides against microbial biofilms: advantages and limits. 2011 , 18, 256-79	156
1536	IMMUNOLOGY AND RHEUMATIC DISEASES. 2011 , 16-52	
1535	Rhesus macaque α -defensin isoforms: expression, antimicrobial activities, and demonstration of a prominent role in neutrophil granule microbicidal activities. 2011 , 89, 283-90	40
1534	Shigella are versatile mucosal pathogens that circumvent the host innate immune system. 2011 , 23, 448-55	64
1533	Mechanisms linking pathogens-associated inflammation and cancer. 2011 , 305, 250-62	81
1532	Structural basis for the enhanced activity of cyclic antimicrobial peptides: the case of BPC194. 2011 , 1808, 2197-205	43
1531	Cationic amphipathic peptides accumulate sialylated proteins and lipids in the plasma membrane of eukaryotic host cells. 2011 , 1808, 2581-90	13
1530	Synthesis and activity of thioether-containing analogues of the complement inhibitor compstatin. 2011 , 6, 753-60	64
1529	Innate response of human endothelial cells infected with mycobacteria. 2011 , 216, 925-35	23
1528	Vitamin D metabolism and innate immunity. 2011 , 347, 97-105	100
1527	Antibacterial effects of vitamin D. 2011 , 7, 337-45	259
1526	Bactericidal activity of porcine neutrophil secretions. 2011 , 139, 113-8	18
1525	Differential localization of lingual antimicrobial peptide in the digestive tract mucosal epithelium of calves. 2011 , 142, 87-94	9
1524	Primary human epithelial cell culture system for studying interactions between female upper genital tract and sexually transmitted viruses, HSV-2 and HIV-1. 2011 , 55, 114-21	19
1523	Function of mucilaginous secretions in the antibacterial immunity system of Eisenia fetida. 2011 , 54, S57-S62	5
1522	S-thanatin in vitro prevents colistin resistance and improves its efficacy in an animal model of Pseudomonas aeruginosa sepsis. 2011 , 32, 697-701	6
1521	Gingipains produced by Porphyromonas gingivalis ATCC49417 degrade human α -defensin 3 and affect peptide's antibacterial activity in vitro. 2011 , 32, 1073-7	44
1520	Isolation and characterization of Neosartorya fischeri antifungal protein (NFAP). 2011 , 32, 1724-31	43

1519	Natural roles of antimicrobial peptides in microbes, plants and animals. 2011 , 162, 363-74	188
1518	Cytokine responses to <i>E. coli</i> -induced epididymitis in the rat: blockade by vasectomy. 2011 , 77, 1507.e9-14	15
1517	Antibiotic activities of host defense peptides: more to it than lipid bilayer perturbation. 2011 , 28, 1350-8	154
1516	Locus-specific protocol for nine different innate immune genes (antimicrobial peptides: β -defensins) across passerine bird species reveals within-species coding variation and a case of trans-species polymorphisms. 2011 , 11, 686-92	32
1515	From simple to complex: investigating the effects of lipid composition and phase on the membrane interactions of biomolecules using in situ atomic force microscopy. 2011 , 3, 632-44	31
1514	Human β -defensin 3 (DEFB103) and its influence on <i>Staphylococcus aureus</i> nasal carriage. 2011 , 15, e388-94	14
1513	Granulocyte-derived cationic Peptide enhances homing and engraftment of bone marrow stem cells after transplantation. 2011 , 27, 133-40	1
1512	. 2011 ,	5
1511	The Role of Vitamin D in Innate Immunity. 2011 , 1811-1823	4
1510	Histochemical properties of sialic acids and antimicrobial substances in canine anal glands. 2011 , 55, e29	4
1509	Dynamics and plasticity of chromosome ends: consequences in human pathologies. 2011 ,	
1508	Paratransgenic control of vector borne diseases. 2011 , 7, 1334-44	68
1507	Effects of Dietary Vitamin D3 Supplementation on AvBD-1 and chCATH-1 Genes Expression in Chicken. 2011 , 48, 254-258	8
1506	Exploring the pharmacological potential of promiscuous host-defense peptides: from natural screenings to biotechnological applications. 2011 , 2, 232	42
1505	RSV Induced Changes in miRNA Expression in Lung. 2011 ,	
1504	Increased expression of beta-defensin 1 (DEFB1) in chronic obstructive pulmonary disease. 2011 , 6, e21898	53
1503	The innate immune system in delayed cutaneous allergic reactions to medications. 2011 , 11, 292-8	15
1502	Defensins: Key Molecules in Ocular Surface Protection. 2011 , 7, 295-307	

1501	Regulation of Ocular Immune Responses by Corneal Epithelium. 2011 , 7, 280-294	2
1500	Antibacterial peptides and gastrointestinal diseases. 2011 , 17, 1583-6	7
1499	Gut Epithelial Lining Makes the First Move. 2011 , 7, 264-270	
1498	Expression of cecropin B in <i>Pichia pastoris</i> and its bioactivity in vitro. 2011 , 2, 655-660	14
1497	Barriers to mucosal transmission of immunodeficiency viruses. 2011 , 118, 839-46	62
1496	Immunohistochemical and histoplanimetric study on the spatial relationship between the settlement of indigenous bacteria and the secretion of bactericidal peptides in rat alimentary tract. 2011 , 73, 1043-50	11
1495	Immunohistochemical study on the secretory host defense system of bactericidal peptides in rat digestive organs. 2011 , 73, 217-25	14
1494	Wound healing of intestinal epithelial cells. 2011 , 17, 2161-71	172
1493	Changes in Skin Immunity with Age and Disease. 2011 , 215-258	1
1492	Antimicrobial peptides in healthy skin and atopic dermatitis. 2011 , 60, 17-24	20
1491	Expression of α -defensin 1-3 in T cells from severe cutaneous drug-induced hypersensitivity reactions. 2011 , 66, 360-7	29
1490	Expression of human α -defensin-2 in the prostate. 2011 , 107, 144-9	9
1489	Beyond phytohaemagglutinin: assessing vertebrate immune function across ecological contexts. 2011 , 80, 710-30	195
1488	Nuclear factor kappa B plays a pivotal role in polyinosinic-polycytidylic acid-induced expression of human α -defensin 2 in intestinal epithelial cells. 2011 , 165, 85-93	13
1487	Gene cloning, expression and characterization of avian cathelicidin orthologs, Cc-CATHs, from <i>Coturnix coturnix</i> . 2011 , 278, 1573-84	27
1486	Antimicrobial peptides important in innate immunity. 2011 , 278, 3942-51	170
1485	Antimicrobial β -peptides and β -peptoids. 2011 , 77, 107-16	97
1484	Innate antiviral immunity of periodontal tissue. 2011 , 56, 143-53	8

1483	HIV-1 infection in the female reproductive tract: role of interactions between HIV-1 and genital epithelial cells. 2011 , 65, 253-60	44
1482	In vitro antibacterial and hemolytic activities of crotamine, a small basic myotoxin from rattlesnake <i>Crotalus durissus</i> . 2011 , 64, 327-31	46
1481	How has neutrophil research improved our understanding of periodontal pathogenesis?. 2011 , 38 Suppl 11, 49-59	124
1480	Lingual antimicrobial peptide and IL-8 expression are oppositely regulated by the antagonistic effects of NF- κ B p65 and C/EBP β in mammary epithelial cells. 2011 , 48, 895-908	31
1479	Three novel <i>Anas platyrhynchos</i> avian α -defensins, upregulated by duck hepatitis virus, with antibacterial and antiviral activities. 2011 , 49, 84-96	32
1478	Innate and adaptive immunity at mucosal surfaces of the female reproductive tract: stratification and integration of immune protection against the transmission of sexually transmitted infections. 2011 , 88, 185-94	159
1477	Innate immune mediator profiles and their regulation in a novel polarized immortalized epithelial cell model derived from human endocervix. 2011 , 92, 8-20	36
1476	The promoter of a plant defensin gene directs specific expression in nematode-induced syncytia in <i>Arabidopsis</i> roots. 2011 , 49, 1100-7	16
1475	Antimicrobial peptides and proteins of the horse--insights into a well-armed organism. 2011 , 42, 98	44
1474	Increased α -defensin-1 expression in Korean patients with Behcet's disease. 2011 , 78, 593-7	5
1473	Human α -defensin-2 induction in nasal mucosa after administration of bacterial lysates. 2011 , 42, 189-94	22
1472	Ultra-high resolution crystal structure of a dimeric defensin SPE10. 2011 , 585, 300-6	23
1471	Phagosome dynamics during phagocytosis by neutrophils. 2011 , 90, 271-84	176
1470	Antimicrobial Peptides. 2011 , 195-225	1
1469	Paneth cells, antimicrobial peptides and maintenance of intestinal homeostasis. 2011 , 9, 356-68	690
1468	Anatomy and Physiology of the Small and Large Intestines. 2011 , 324-336.e2	10
1467	Pathogenic and mutualistic plant-bacteria interactions: ever increasing similarities. 2011 , 6, 911-917	5
1466	Human defensin 5 disulfide array mutants: disulfide bond deletion attenuates antibacterial activity against <i>Staphylococcus aureus</i> . 2011 , 50, 8005-17	51

1465	Alpha-defensin DEFA1A3 gene copy number elevation in Danish Crohn's disease patients. 2011 , 56, 3517-24	19
1464	Changes in salivary antimicrobial peptides, immunoglobulin A and cortisol after prolonged strenuous exercise. 2011 , 111, 2005-14	36
1463	Defensins in innate immunity. 2011 , 343, 175-88	183
1462	Peptides as toxins/defensins. 2011 , 40, 1-4	10
1461	Tertiary structure-related activity of tick defensin (persulcatusin) in the taiga tick, <i>Ixodes persulcatus</i> . 2011 , 53, 71-7	12
1460	Demonstration and partial characterization of a bacterial growth enhancer in sera. 2011 , 62, 90-5	
1459	The epididymis-specific antimicrobial peptide α -defensin 15 is required for sperm motility and male fertility in the rat (<i>Rattus norvegicus</i>). 2011 , 68, 697-708	59
1458	Host-defense peptides: from biology to therapeutic strategies. 2011 , 68, 2157-9	48
1457	Bacterial resistance mechanisms against host defense peptides. 2011 , 68, 2243-54	102
1456	Membrane interaction and antibacterial properties of two mildly cationic peptide diastereomers, bombinins H2 and H4, isolated from <i>Bombina</i> skin. 2011 , 40, 577-88	32
1455	The role of oct-1 in the regulation of tracheal antimicrobial peptide (TAP) and lingual antimicrobial peptide (LAP) expression in bovine mammary epithelial cells. 2011 , 63, 715-25	9
1454	Reproductive tissue-specific expression profiling and genetic variation across a 19 gene bovine α -defensin cluster. 2011 , 63, 641-51	27
1453	Innate immunity and the role of defensins in otitis media. 2011 , 11, 499-507	19
1452	Human defensins 5 and 6 enhance HIV-1 infectivity through promoting HIV attachment. 2011 , 8, 45	52
1451	Bacterial membrane activity of α -peptide/ α -peptoid chimeras: influence of amino acid composition and chain length on the activity against different bacterial strains. 2011 , 11, 144	30
1450	Structure and dynamics of cationic membrane peptides and proteins: insights from solid-state NMR. 2011 , 20, 641-55	79
1449	A worldwide analysis of beta-defensin copy number variation suggests recent selection of a high-expressing DEFB103 gene copy in East Asia. 2011 , 32, 743-50	62
1448	Analytical platform for verification and quantitation of target peptides in human serum: application to cathelicidin. 2011 , 415, 39-45	9

1447	Antimicrobial functionalized genetically engineered spider silk. 2011 , 32, 4255-66	76
1446	Cathelicidins—therapeutic antimicrobial and antitumor host defense peptides for oral diseases. 2011 , 47, 67-81	9
1445	Novel antifungal defensins from <i>Nigella sativa</i> L. seeds. 2011 , 49, 131-7	56
1444	Paneth cell hyperplasia and metaplasia in necrotizing enterocolitis. 2011 , 69, 217-23	31
1443	Small-angle X-ray scattering studies of peptide-lipid interactions using the mouse paneth cell β -defensin cryptdin-4. 2011 , 492, 127-49	3
1442	Vitamin D in solid organ transplantation with special emphasis on kidney transplantation. 2011 , 86, 429-68	2
1441	Recruitment of progenitor cells by an extracellular matrix cryptic peptide in a mouse model of digit amputation. 2011 , 17, 2435-43	145
1440	Systemic upregulation of neutrophil β -defensins and serine proteases in neutrophilic asthma. 2011 , 66, 942-7	58
1439	The airway epithelium: soldier in the fight against respiratory viruses. 2011 , 24, 210-29	408
1438	Humanized theta-defensins (retrocyclins) enhance macrophage performance and protect mice from experimental anthrax infections. 2011 , 55, 4238-50	39
1437	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
1436	The Relaxing Effect of β -Defensin 1 on the Adrenergic Responses of Rat Bladder. 2011 , 15, 143-7	2
1435	Role of defensins in corneal epithelial barrier function against <i>Pseudomonas aeruginosa</i> traversal. 2011 , 79, 595-605	57
1434	Strain-specific polymorphisms in Paneth cell β -defensins of C57BL/6 mice and evidence of vestigial myeloid β -defensin pseudogenes. 2011 , 79, 459-73	54
1433	Protection of <i>Sinorhizobium</i> against host cysteine-rich antimicrobial peptides is critical for symbiosis. 2011 , 9, e1001169	128
1432	Deletion of <i>mtrC</i> in <i>Haemophilus ducreyi</i> increases sensitivity to human antimicrobial peptides and activates the CpxRA regulon. 2011 , 79, 2324-34	32
1431	Bactericidal activity of mouse β -defensin cryptdin-4 predominantly affects noncommensal bacteria. 2011 , 3, 315-26	67
1430	Mucosal human defensins 5 and 6 antagonize the anti-HIV activity of candidate polyanion microbicides. 2011 , 3, 208-12	18

1429	The C-terminal sequence of several human serine proteases encodes host defense functions. 2011 , 3, 471-82	34
1428	Structure-activity studies and therapeutic potential of host defense peptides of human thrombin. 2011 , 55, 2880-90	53
1427	Fusobacterium nucleatum and human beta-defensins modulate the release of antimicrobial chemokine CCL20/macrophage inflammatory protein 3. 2011 , 79, 4578-87	21
1426	Human β -defensin 3 promotes NF- κ B-mediated CCR7 expression and anti-apoptotic signals in squamous cell carcinoma of the head and neck. 2011 , 32, 168-74	35
1425	Inducible expression of human β -defensin 2 by Chlamydomonas pneumoniae in brain capillary endothelial cells. 2011 , 17, 463-9	5
1424	Bioactive coating of titanium surfaces with recombinant human β -defensin-2 (rHu β 2) may prevent bacterial colonization in orthopaedic surgery. 2011 , 93, 840-6	18
1423	Epithelial cell secretions from the human female reproductive tract inhibit sexually transmitted pathogens and Candida albicans but not Lactobacillus. 2011 , 4, 335-42	55
1422	New mechanism of oral immunity to mucosal candidiasis in hyper-IgE syndrome. 2011 , 4, 448-55	98
1421	Mouse and human intestinal immunity: same ballpark, different players; different rules, same score. 2011 , 4, 148-57	112
1420	Intestinal antimicrobial peptides during homeostasis, infection, and disease. 2012 , 3, 310	124
1419	Antimicrobial activities of chemokines: not just a side-effect?. 2012 , 3, 213	55
1418	Why Do We have to Move Fluid to be Able to Breathe?. 2012 , 3, 146	31
1417	Human Defensins: Potential Tools for Clinical Applications. 2012 , 4, 691-709	26
1416	Neutrophils and macrophages: the main partners of phagocyte cell systems. 2012 , 3, 174	81
1415	Role of Uropathogenic Escherichia coli Virulence Factors in Development of Urinary Tract Infection and Kidney Damage. 2012 , 2012, 681473	178
1414	A species-specific cluster of defensin-like genes encodes diffusible pollen tube attractants in Arabidopsis. 2012 , 10, e1001449	191
1413	Role of cysteine residues and disulfide bonds in the activity of a legume root nodule-specific, cysteine-rich peptide. 2012 , 287, 10791-8	61
1412	β -defensin genomic copy number is associated with HIV load and immune reconstitution in sub-saharan Africans. 2012 , 206, 1012-9	31

1411	The epithelium-produced growth factor midkine has fungicidal properties. 2012 , 67, 1927-36	9
1410	Basic science for the clinician 59: polymorphonuclear cells: mechanisms in human defense and in the pathogenesis of autoimmune disease. 2012 , 18, 443-9	1
1409	CpsY influences <i>Streptococcus iniae</i> cell wall adaptations important for neutrophil intracellular survival. 2012 , 80, 1707-15	16
1408	Invariant gly residue is important for α -defensin folding, dimerization, and function: a case study of the human neutrophil α -defensin HNP1. 2012 , 287, 18900-12	23
1407	The potential for antimicrobial peptides to improve fish health in aquaculture. 2012 , 457-479	2
1406	The bactericidal activity of the C-type lectin RegIII β against Gram-negative bacteria involves binding to lipid A. 2012 , 287, 34844-55	64
1405	Snake venom phospholipases A(2): a novel tool against bacterial diseases. 2012 , 19, 6150-62	14
1404	Discovering new in silico tools for antimicrobial peptide prediction. 2012 , 13, 1148-57	21
1403	Role of defensins and cathelicidin LL37 in auto-immune and auto-inflammatory diseases. 2012 , 13, 1882-97	39
1402	Rubber elasticity for incomplete polymer networks. 2012 , 137, 224903	34
1401	[Human beta-defensin 1: from defence to offence]. 2012 , 50, 1171-5	2
1400	α -Defensins and outcome in patients with chronic heart failure. 2012 , 14, 387-94	17
1399	The Developing Intestine as an Immune Organ. 2012 , 67-89	
1398	Human cathelicidin LL-37 prevents bacterial biofilm formation. 2012 , 4, 1587-99	27
1397	Eurocin, a new fungal defensin: structure, lipid binding, and its mode of action. 2012 , 287, 42361-72	60
1396	Sometimes it takes two to tango: contributions of dimerization to functions of human α -defensin HNP1 peptide. 2012 , 287, 8944-53	39
1395	Pulmonary surfactant protein A protects lung epithelium from cytotoxicity of human α -defensin 3. 2012 , 287, 15034-43	8
1394	Epithelial cell-intrinsic Notch signaling plays an essential role in the maintenance of gut immune homeostasis. 2012 , 188, 2427-36	51

1393	DAMPD: a manually curated antimicrobial peptide database. 2012 , 40, D1108-12	80
1392	Arginine in α -defensins: differential effects on bactericidal activity correspond to geometry of membrane curvature generation and peptide-lipid phase behavior. 2012 , 287, 21866-72	45
1391	A genome-wide association study in Han Chinese identifies multiple susceptibility loci for IgA nephropathy. 2011 , 44, 178-82	195
1390	Antimicrobial chemokines. 2012 , 3, 276	40
1389	Modulation of neutrophil apoptosis by antimicrobial peptides. 2012 , 2012, 345791	27
1388	Vitamin D and the Innate Immune Response. 2012 , 59-84	
1387	Functional determinants of human enteric α -defensin HD5: crucial role for hydrophobicity at dimer interface. 2012 , 287, 21615-27	57
1386	Activity, expression and genetic variation of canine α -defensin 103: a multifunctional antimicrobial peptide in the skin of domestic dogs. 2012 , 4, 248-59	33
1385	New treatments for emerging cystic fibrosis pathogens other than Pseudomonas. 2012 , 18, 696-725	41
1384	Expression in Pichia Pastoris and biological activity of Avian α -defensin 6 and its mutant peptide without cysteines. 2012 , 19, 1064-70	3
1383	Resolving biofilm infections: current therapy and drug discovery strategies. 2012 , 13, 1375-85	18
1382	Cysteine-rich mini-proteins in human biology. 2012 , 12, 1514-33	31
1381	Antimicrobial responses of primary gingival cells to Porphyromonas gingivalis. 2012 , 39, 913-22	27
1380	Antimicrobial peptides: clinical relevance and therapeutic implications. 2012 , 36, 308-14	102
1379	Next generation of antimicrobial peptides as molecular targeted medicines. 2012 , 114, 365-70	52
1378	Molecular dynamics simulations of a new branched antimicrobial peptide: a comparison of force fields. 2012 , 137, 215101	22
1377	Microbial products alter the expression of membrane-associated mucin and antimicrobial peptides in a three-dimensional human endocervical epithelial cell model. 2012 , 87, 132	41
1376	The α -defensin salt-bridge induces backbone stability to facilitate folding and confer proteolytic resistance. 2012 , 43, 1471-83	23

1375	Effects of vitamin D on immune disorders with special regard to asthma, COPD and autoimmune diseases: a short review. 2012 , 6, 683-704	33
1374	Histochemical distribution of sialic acids and antimicrobial substances in porcine carpal glands. 2012 , 304, 599-607	2
1373	Sialic acids and antimicrobial substances in the apocrine glands of porcine perianal skin. 2012 , 304, 609-17	1
1372	Digested and fermented green kiwifruit increases human α -defensin 1 and 2 production in vitro. 2012 , 67, 208-14	20
1371	Expression pattern, promoter activity and bactericidal property of α -defensin from the mandarin fish <i>Siniperca chuatsi</i> . 2012 , 33, 522-31	36
1370	Defensin like peptide from <i>Panulirus argus</i> relates structurally with beta defensin from vertebrates. 2012 , 33, 872-9	13
1369	Serum levels of the hepcidin-20 isoform in a large general population: the Val Borbera study. 2012 , 76 Spec No., 28-35	27
1368	Multifaceted mechanisms of HIV-1 entry inhibition by human α -defensin. 2012 , 287, 28821-38	64
1367	A novel organotypic dento-epithelial culture model: effect of <i>Fusobacterium nucleatum</i> biofilm on B-defensin-2, -3, and LL-37 expression. 2012 , 83, 242-7	32
1366	Transcriptional profiling of antimicrobial peptides avian α -defensins in the chicken ovary during sexual maturation and in response to <i>Salmonella enteritidis</i> infection. 2012 , 92, 60-5	25
1365	Parasitocidal activity of <i>Haemaphysalis longicornis</i> longicin P4 peptide against <i>Toxoplasma gondii</i> . 2012 , 34, 242-50	19
1364	Two novel antimicrobial peptides purified from the symbiotic bacteria <i>Xenorhabdus budapestensis</i> NMC-10. 2012 , 35, 253-60	19
1363	Effect of antimicrobial peptides on ATPase activity and proton pumping in plasma membrane vesicles obtained from mycobacteria. 2012 , 36, 121-8	27
1362	Role of lipids in the interaction of antimicrobial peptides with membranes. 2012 , 51, 149-77	443
1361	Characterization of the innate immune response in goats after intrauterine infusion of <i>E. coli</i> using histopathological, cytologic and molecular analyses. 2012 , 78, 593-604	27
1360	Differential immunolocalization between lingual antimicrobial peptide and lactoferrin in mammary gland of dairy cows. 2012 , 145, 499-504	34
1359	Regional and age dependent changes in gene expression of Toll-like receptors and key antimicrobial defence molecules throughout the gastrointestinal tract of dairy calves. 2012 , 146, 18-26	64
1358	Genetics of psoriasis: evidence for epistatic interaction between skin barrier abnormalities and immune deviation. 2012 , 132, 2320-2331	70

- 1357 Cholinergic regulation of keratinocyte innate immunity and permeability barrier integrity: new perspectives in epidermal immunity and disease. **2012**, 132, 28-42 35
- 1356 Molecular characterization and immune analysis of a defensin from freshwater pearl mussel, *Hyriopsis schlegelii*. **2012**, 334-337, 45-50 15
- 1355 Salivary concentration of the antimicrobial peptide LL-37 in children. **2012**, 57, 865-9 46
- 1354 Inactivation of the budded virus of *Autographa californica* M nucleopolyhedrovirus by gloverin. **2012**, 110, 92-101 38
- 1353 Dietary l-arginine supplementation enhances porcine β -defensins gene expression in some tissues of weaned pigs. **2012**, 148, 103-108 15
- 1352 B cell-intrinsic MyD88 signaling prevents the lethal dissemination of commensal bacteria during colonic damage. **2012**, 36, 228-38 89
- 1351 Membrane and lipopolysaccharide interactions of C-terminal peptides from S1 peptidases. **2012**, 1818, 2244-51 36
- 1350 A defensin-like peptide from *Phaseolus vulgaris* cv. 'King Pole Bean'. **2012**, 135, 408-14 20
- 1349 Bioinformatic and molecular characterization of beta-defensins-like peptides isolated from the green lizard *Anolis carolinensis*. **2012**, 36, 222-9 42
- 1348 The first chordate big defensin: identification, expression and bioactivity. **2012**, 32, 572-7 24
- 1347 Antiviral effects of β -defensin derived from orange-spotted grouper (*Epinephelus coioides*). **2012**, 32, 828-38 64
- 1346 Antimicrobial host defensins - specific antibiotic activities and innate defense modulation. **2012**, 3, 249 37
- 1345 Genome-level identification, gene expression, and comparative analysis of porcine β -defensin genes. **2012**, 13, 98 32
- 1344 Identification of defensin-encoding genes of *Picea glauca*: characterization of PgD5, a conserved spruce defensin with strong antifungal activity. **2012**, 12, 180 16
- 1343 Human β -defensin (DEFA) gene expression helps to characterise benign and malignant salivary gland tumours. **2012**, 12, 465 13
- 1342 Modulation of ovine SBD-1 expression by 17 β -estradiol in ovine oviduct epithelial cells. **2012**, 8, 143 17
- 1341 Association studies of the copy-number variable β -defensin cluster on 8p23.1 in adenocarcinoma and chronic pancreatitis. **2012**, 5, 629 12
- 1340 Immunomodulatory effects of *Bacillus subtilis* (natto) B4 spores on murine macrophages. **2012**, 56, 817-24 21

1339	Antimicrobial peptides: old molecules with new ideas. 2012 , 132, 887-95	244
1338	Differential gene expression profiles of α -defensins in the crop, intestine, and spleen using a necrotic enteritis model in 2 commercial broiler chicken lines. 2012 , 91, 1081-8	87
1337	A comprehensive summary of LL-37, the factotum human cathelicidin peptide. 2012 , 280, 22-35	372
1336	Stress in Plantation Crops: Adaptation and Management. 2012 , 45-137	3
1335	Identification of structural traits that increase the antimicrobial activity of a chimeric peptide of human α -defensins 2 and 3. 2012 , 427, 207-11	10
1334	A beta-defensin 1-like antimicrobial peptide from the tree shrew, <i>Tupaia belangeri</i> . 2012 , 509, 258-62	2
1333	Antimicrobial peptide control of pathogenic microorganisms of the oral cavity: a review of the literature. 2012 , 36, 315-21	69
1332	Antimicrobial activity of human α -defensin 4 analogs: insights into the role of disulfide linkages in modulating activity. 2012 , 38, 255-65	14
1331	Enhanced expression of human α -defensin 2 in peripheral lungs of patients with chronic obstructive pulmonary disease. 2012 , 38, 350-6	18
1330	Probiotic mechanisms of action. 2012 , 61, 160-74	576
1329	Direct identification of bacteria in urine samples by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry and relevance of defensins as interfering factors. 2012 , 61, 339-344	62
1328	Proteomic discovery of diverse immunity molecules in mammalian spermatozoa. 2012 , 58, 218-28	40
1327	Antimicrobial Peptides: Multifunctional Drugs for Different Applications. 2012 , 4, 539-560	80
1326	Contact-free inactivation of <i>Candida albicans</i> biofilms by cold atmospheric air plasma. 2012 , 78, 4242-7	81
1325	Regulation of antimicrobial peptide gene expression by nutrients and by-products of microbial metabolism. 2012 , 51, 899-907	41
1324	Molecular basis for nanoscopic membrane curvature generation from quantum mechanical models and synthetic transporter sequences. 2012 , 134, 19207-16	58
1323	NMR solution structure and condition-dependent oligomerization of the antimicrobial peptide human defensin 5. 2012 , 51, 9624-37	40
1322	Application of unnatural amino acids to the de novo design of selective antibiotic peptides. 2012 , 794, 135-67	10

1321	Parallel sheet secondary structure is stabilized and terminated by interstrand disulfide cross-linking. 2012 , 134, 75-8	42
1320	High fidelity processing and activation of the human defensin HNP1 precursor by neutrophil elastase and proteinase 3. 2012 , 7, e32469	22
1319	Risks associated with high-dose <i>Lactobacillus rhamnosus</i> in an <i>Escherichia coli</i> model of piglet diarrhoea: intestinal microbiota and immune imbalances. 2012 , 7, e40666	87
1318	Early immunologic events at the tick-host interface. 2012 , 7, e47301	39
1317	Rhesus macaque theta defensins suppress inflammatory cytokines and enhance survival in mouse models of bacteremic sepsis. 2012 , 7, e51337	57
1316	The effect of microbial-nutrient interaction on the immune system of young chicks after early probiotic and organic acid administration. 2012 , 90, 2246-54	40
1315	The expanding family of bone marrow homing factors for hematopoietic stem cells: stromal derived factor 1 is not the only player in the game. 2012 , 2012, 758512	25
1314	Comparison of salivary antimicrobial peptides and upper respiratory tract infections in elite marathon runners and sedentary subjects. 2012 , 1, 175-181	4
1313	Correlation of DEFA1 gene copy number variation with intestinal involvement in Behcet's disease. 2012 , 27, 107-9	9
1312	Natural Antimicrobial Peptides from Eukaryotic Organisms. 2012 ,	3
1311	Histochemical localization of sialic acids and antimicrobial substances in eccrine glands of porcine snout skin. 2012 , 56, e6	6
1310	Antimicrobial peptides and nitric oxide production by neutrophils from periodontitis subjects. 2012 , 45, 1017-24	8
1309	Enteric alpha defensins in norm and pathology. 2012 , 11, 1	31
1308	Discovery and characterization of <i>Coturnix chinensis</i> avian defensin 10, with broad antibacterial activity. 2012 , 18, 224-32	18
1307	Defensins in Viral Infection. 2012 , 137-171	5
1306	Antimicrobial activities of recombinant mouse defensin 3 and its synergy with antibiotics. 2012 , 23, 1723-8	9
1305	Lasso peptides: structure, function, biosynthesis, and engineering. 2012 , 29, 996-1006	163
1304	Dimerization of plant defensin NaD1 enhances its antifungal activity. 2012 , 287, 19961-72	58

1303	MxA expression induced by α -defensin in healthy human periodontal tissue. 2012 , 42, 946-56	6
1302	Antifungal Peptides: Exploiting Non-Lytic Mechanisms and Cell Penetration Properties. 2012 , 337-357	2
1301	Lipid composition is a determinant for human defensin HNP1 selectivity. 2012 , 98, 313-21	10
1300	RTD-1mimic containing BNA scaffold exhibits broad-spectrum antibacterial activities. 2012 , 134, 4041-4	22
1299	The antibacterial peptide ABP-CM4: the current state of its production and applications. 2012 , 42, 2393-402	15
1298	Histochemical demonstration of sialic acids and antimicrobial substances in the porcine anal glands. 2012 , 114, 327-33	5
1297	Histochemical analyses of glycoconjugates and antimicrobial substances in goat labial glands. 2012 , 114, 454-62	4
1296	Immunohistochemical aspects of anti-microbial properties in goat submandibular glands. 2012 , 41, 54-9	4
1295	Eosinophils from patients with type 1 diabetes mellitus express high level of myeloid α -defensins and myeloperoxidase. 2012 , 273, 158-63	13
1294	Bioactive Peptides: Synthesis, Properties, and Applications in the Packaging and Preservation of Food. 2012 , 11, 187-204	106
1293	Genetic polymorphisms of human α -defensins in patients with ischemic stroke. 2012 , 126, 109-15	11
1292	Antimicrobial peptides: agents of border protection for companion animals. 2012 , 23, 177-e36	19
1291	The role of innate immunity in the host defense against intestinal bacterial pathogens. 2012 , 14, 15-23	11
1290	Differential gene expression of antimicrobial peptides α -defensins in the gastrointestinal tract of <i>Salmonella</i> serovar Pullorum infected broiler chickens. 2012 , 36, 57-62	27
1289	Production of bioactive sheep α -defensin-1 in <i>Pichia pastoris</i> . 2012 , 39, 11-7	13
1288	Histochemical analyses of anti-microbial substances in canine perianal skin with special reference to glandular structures. 2013 , 42, 105-13	2
1287	Oral human α -defensin 2 in HIV-infected subjects with long-term use of antiretroviral therapy. 2013 , 42, 53-60	15
1286	Zn(2+) and L-isoleucine induce the expressions of porcine α -defensins in IPEC-J2 cells. 2013 , 40, 1547-52	23

1285	Human α -defensin 3 induces STAT1 phosphorylation, tyrosine phosphatase activity, and cytokine synthesis in T cells. 2013 , 94, 459-71	13
1284	Plant Defensin type 1 (PDF1): protein promiscuity and expression variation within the Arabidopsis genus shed light on zinc tolerance acquisition in Arabidopsis halleri. 2013 , 200, 820-833	35
1283	Granulocytes of reptilian sauropsids contain beta-defensin-like peptides: a comparative ultrastructural survey. 2013 , 274, 877-86	12
1282	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
1281	Host Defence (Antimicrobial) Peptides and Proteins. 2013 ,	
1280	Constella(EU)-Linzess(USA): the last milestone in the long journey of the peptide linaclotide and its implications for the future of peptide drugs. 2013 , 5, 291-300	10
1279	Cationic host defence peptides: potential as antiviral therapeutics. 2013 , 27, 479-93	89
1278	Avian host defense peptides. 2013 , 41, 352-69	124
1277	Reduction of human defensin 5 affords a high-affinity zinc-chelating peptide. 2013 , 8, 1907-11	31
1276	Identification and characterization of lysine-rich proteins and starch biosynthesis genes in the opaque2 mutant by transcriptional and proteomic analysis. 2013 , 13, 60	56
1275	Bronchiolitis Obliterans Syndrome in Lung Transplantation. 2013 ,	3
1274	Metalloproteinases and their natural inhibitors in inflammation and immunity. <i>Nature Reviews Immunology</i> , 2013 , 13, 649-65	36.5 363
1273	Construction and characterization of a recombinant human beta defensin 2 fusion protein targeting the epidermal growth factor receptor: in vitro study. 2013 , 97, 3913-23	11
1272	Antimicrobial Peptides and Innate Immunity. 2013 ,	8
1271	Temporal changes in the expression of avian α -defensins in the chicken vagina during sexual maturation and Salmonella infection. 2013 , 37, 115-22	8
1270	Influenza virus A M2 protein generates negative Gaussian membrane curvature necessary for budding and scission. 2013 , 135, 13710-9	80
1269	Involvement of Ran in the regulation of phagocytosis against virus infection in S2 cells. 2013 , 41, 491-7	9
1268	Peptide interactions with bacterial lipopolysaccharides. 2013 , 18, 381-392	35

1267	Commercialization of antifungal peptides. 2013 , 26, 156-165	27
1266	Expression and regulation of beta-defensin 11 in the oviduct in response to estrogen and in ovarian tumors of chickens. 2013 , 366, 1-8	31
1265	Flexibility is a mechanical determinant of antimicrobial activity for amphipathic cationic α -helical antimicrobial peptides. 2013 , 1828, 2479-86	35
1264	Antimicrobial peptides and induced membrane curvature: geometry, coordination chemistry, and molecular engineering. 2013 , 17, 151-163	125
1263	Molecular Genetics of Inflammatory Bowel Disease. 2013 ,	
1262	A 2H solid-state NMR study of lipid clustering by cationic antimicrobial and cell-penetrating peptides in model bacterial membranes. 2013 , 105, 2333-42	26
1261	Immune surveillance mechanisms of the skin against the stealth infection strategy of <i>Pseudomonas aeruginosa</i> -review. 2013 , 36, 433-48	16
1260	Identification and characterization of defensin genes from the endoparasitoid wasp <i>Cotesia vestalis</i> (Hymenoptera: Braconidae). 2013 , 59, 1095-103	9
1259	Antiviral mechanisms of human defensins. 2013 , 425, 4965-80	188
1258	Effects of dietary supplementation with an antimicrobial peptide-P5 on growth performance, nutrient retention, excreta and intestinal microflora and intestinal morphology of broilers. 2013 , 185, 78-84	30
1257	Augmentation of 5-lipoxygenase activity and expression during dengue serotype-2 infection. 2013 , 10, 322	7
1256	The effects of preservation procedures on antibacterial property of amniotic membrane. 2013 , 67, 293-8	45
1255	Structural and functional characterization of peptides derived from the carboxy-terminal region of a defensin from the tick <i>Ornithodoros savignyi</i> . 2013 , 19, 325-32	10
1254	Platelets as cellular effectors of inflammation in vascular diseases. 2013 , 112, 1506-19	214
1253	Effects of <i>Bacillus subtilis</i> B10 spores on viability and biological functions of murine macrophages. 2013 , 84, 247-52	10
1252	Genetics of pigmentation in dogs and cats. 2013 , 1, 125-56	46
1251	Broad RNA interference-mediated antiviral immunity and virus-specific inducible responses in <i>Drosophila</i> . 2013 , 190, 650-8	179
1250	Cytochemistry of sialoglycoconjugates, lysozyme, and α -defensin in eccrine glands of porcine snout skin as studied by electron microscopy. 2013 , 76, 12-9	

1249	Expression of human beta defensins (HBDs) 1, 2 and 3 in gingival crevicular fluid of patients affected by localized aggressive periodontitis. 2013 , 25, 75-82	15
1248	Pro-inflammatory and pro-apoptotic properties of Human Defensin 5. 2013 , 436, 557-62	28
1247	Identification of three novel avian beta-defensins from goose and their significance in the pathogenesis of Salmonella. 2013 , 56, 521-9	13
1246	Quantitative analysis of differentially expressed saliva proteins in human immunodeficiency virus type 1 (HIV-1) infected individuals. 2013 , 774, 61-6	12
1245	Relationship between concentration of lingual antimicrobial peptide and somatic cell count in milk of dairy cows. 2013 , 153, 298-301	14
1244	A monoclonal antibody-based sandwich enzyme-linked immunosorbent assay for detection of secreted β defensin. 2013 , 443, 124-31	16
1243	The effects of β defensin 1 on electrical field stimulation-induced contraction of rat bladders. 2013 , 715, 420-3	
1242	Antibacterial effect and hydrophobicity of yak β casein hydrolysate and its fractions. 2013 , 31, 111-116	16
1241	Molecular simulations suggest how a branched antimicrobial peptide perturbs a bacterial membrane and enhances permeability. 2013 , 1828, 1112-21	42
1240	Molecular cloning and expression analysis of two β defensin genes in the blunt snout bream (<i>Megalobrama amblycephala</i>). 2013 , 166, 91-8	22
1239	Selective induction of antimicrobial peptides from keratinocytes by staphylococcal bacteria. 2013 , 56, 35-9	28
1238	Biomolecular engineering of a human beta defensin model for increased salt resistance. 2013 , 95, 128-137	16
1237	Importance of lipopolysaccharide aggregate disruption for the anti-endotoxic effects of heparin cofactor II peptides. 2013 , 1828, 2709-19	28
1236	Divalent cations modulate membrane binding and pore formation of a potent antibiotic peptide analog of alamethicin. 2013 , 53, 180-6	29
1235	Innate immune defense system of the skin. 2013 , 24, 32-8.e8-9	47
1234	Cationic Antimicrobial Peptides. 2013 , 39-81	7
1233	Comparative simulation studies of native and single-site mutant human beta-defensin-1 peptides. 2013 , 31, 174-94	4
1232	Extracellular DNA within a nontypeable <i>Haemophilus influenzae</i> -induced biofilm binds human beta defensin-3 and reduces its antimicrobial activity. 2013 , 5, 24-38	61

1231	Toll-like receptors in human papillomavirus infection. 2013 , 61, 203-15	37
1230	Expression, purification and characterization of cecropin antibacterial peptide from <i>Bombyx mori</i> in <i>Saccharomyces cerevisiae</i> . 2013 , 90, 47-54	29
1229	Innate immunity as orchestrator of bone marrow homing for hematopoietic stem/progenitor cells. 2013 , 735, 219-32	19
1228	Antimicrobial Peptides Produced by Microorganisms. 2013 , 53-95	4
1227	Dermaseptin S4 derivative K4K20S4: a potential candidate for development of a new microbicide contraceptive agent--an in vitro study. 2013 , 18, 79-87	6
1226	Interactions of antimicrobial peptide chrysopsin-3 with <i>Bacillus anthracis</i> in sporulated, germinated, and vegetative states. 2013 , 117, 6364-72	12
1225	The innate defense regulator peptides IDR-HH2, IDR-1002, and IDR-1018 modulate human neutrophil functions. 2013 , 94, 159-70	58
1224	Peptides as the next generation of anti-infectives. 2013 , 5, 315-37	47
1223	Toll-like receptor signaling activation by <i>Entamoeba histolytica</i> induces beta defensin 2 in human colonic epithelial cells: its possible role as an element of the innate immune response. 2013 , 7, e2083	15
1222	A novel beta-defensin antimicrobial peptide in Atlantic cod with stimulatory effect on phagocytic activity. 2013 , 8, e62302	42
1221	Biomolecular identification of beta-defensin-like peptides from the skin of the soft-shelled turtle <i>Apalone spinifera</i> . 2013 , 320, 210-7	13
1220	Inflammatory bowel disease: an impaired barrier disease. 2013 , 398, 1-12	85
1219	WITHDRAWN: Overview of <i>Drosophila</i> immunity: A historical perspective. 2013 ,	
1218	Antimicrobial peptides from plants: stabilization of the core of a tomato defensin by intramolecular disulfide bond. 2013 , 19, 240-5	12
1217	Phylogenetic analysis of β -defensin-like genes of <i>Bothrops</i> , <i>Crotalus</i> and <i>Lachesis</i> snakes. 2013 , 69, 65-74	12
1216	Tissue distribution, expression, and antimicrobial activity of <i>Anas platyrhynchos</i> avian β -defensin 6. 2013 , 92, 97-104	3
1215	Oral intake of phenylbutyrate with or without vitamin D3 upregulates the cathelicidin LL-37 in human macrophages: a dose finding study for treatment of tuberculosis. 2013 , 13, 23	55
1214	Evolutionary origin of β -defensins. 2013 , 39, 79-84	71

1213	Insight into the antimicrobial activities of coprisin isolated from the dung beetle, <i>Copris tripartitus</i> , revealed by structure-activity relationships. 2013 , 1828, 271-83	40
1212	Innate immune cells in inflammation and cancer. 2013 , 1, 77-84	83
1211	Variation in human α -defensin genes: new insights from a multi-population study. 2013 , 40, 261-9	14
1210	Complement Therapeutics. 2013 ,	4
1209	A critical evaluation of random copolymer mimesis of homogeneous antimicrobial peptides. 2013 , 46, 1908-1915	64
1208	Effects of yoga exercise on salivary beta-defensin 2. 2013 , 113, 2621-7	19
1207	Mouse estrous cycle regulation of vaginal versus uterine cytokines, chemokines, β -defensins and TLRs. 2013 , 19, 121-31	30
1206	Regulation of vesicular trafficking and leukocyte function by Rab27 GTPases and their effectors. 2013 , 94, 613-22	29
1205	Barrier function of airway tract epithelium. 2013 , 1, e24997	171
1204	Chimeric beta-defensin analogs, including the novel 3NI analog, display salt-resistant antimicrobial activity and lack toxicity in human epithelial cell lines. 2013 , 57, 1701-8	30
1203	Cellular response to <i>Trypanosoma cruzi</i> infection induces secretion of defensin β 1, which damages the flagellum, neutralizes trypanosome motility, and inhibits infection. 2013 , 81, 4139-48	17
1202	Daptomycin-resistant <i>Enterococcus faecalis</i> diverts the antibiotic molecule from the division septum and remodels cell membrane phospholipids. 2013 , 4,	113
1201	D-alanine modification of a protease-susceptible outer membrane component by the <i>Bordetella pertussis</i> dra locus promotes resistance to antimicrobial peptides and polymorphonuclear leukocyte-mediated killing. 2013 , 195, 5102-11	15
1200	Innate immune functions of β -defensins in the small intestine. 2013 , 31, 299-304	35
1199	The potential of the skin as a readout system to test artificial turf systems: clinical and immunohistological effects of a sliding on natural grass and artificial turf. 2013 , 34, 783-8	8
1198	Viral and bacterial interactions in the upper respiratory tract. 2013 , 9, e1003057	370
1197	Turning defense into offense: defensin mimetics as novel antibiotics targeting lipid II. 2013 , 9, e1003732	41
1196	Cathelicidin-like helminth defence molecules (HDMs): absence of cytotoxic, anti-microbial and anti-protozoan activities imply a specific adaptation to immune modulation. 2013 , 7, e2307	31

1195	Immunolocalization and Correlation Frequencies of Lingual Antimicrobial Peptide and Lactoferrin in Bovine Alveolar Epithelium and Bovine Mammary Gland. 2013 , 781-784, 699-708	
1194	Defending sperm function. 2013 , 9, e1003889	4
1193	The novel human α -defensin 114 regulates lipopolysaccharide (LPS)-mediated inflammation and protects sperm from motility loss. 2013 , 288, 12270-82	47
1192	Effect of narrow-band ultraviolet B on the expression of human α -defensin 2 in psoriatic patients, using immunohistochemistry. 2013 , 33, 42-49	
1191	Human α -defensin 2 is a novel opener of Ca ²⁺ -activated potassium channels and induces vasodilation and hypotension in monkeys. 2013 , 62, 415-25	21
1190	A peptide inhibitor of cytomegalovirus infection from human hemofiltrate. 2013 , 57, 4751-60	26
1189	Mucosal Immunity in the Human Reproductive Tract. 2013 , 71-110	2
1188	Modulation of porcine α -defensins 1 and 2 upon individual and combined Fusarium toxin exposure in a swine jejunal epithelial cell line. 2013 , 79, 2225-32	28
1187	Bis-(3'-5')-cyclic dimeric GMP regulates antimicrobial peptide resistance in <i>Pseudomonas aeruginosa</i> . 2013 , 57, 2066-75	73
1186	<i>Candida albicans</i> mucin Msb2 is a broad-range protectant against antimicrobial peptides. 2013 , 57, 3917-22	45
1185	The role of vitamin D receptor in innate and adaptive immunity: a study in hereditary vitamin D-resistant rickets patients. 2013 , 98, 1685-93	59
1184	A peptide derived from phage display library exhibits antibacterial activity against <i>E. coli</i> and <i>Pseudomonas aeruginosa</i> . 2013 , 8, e56081	31
1183	Structure of the polypeptide crotamine from the Brazilian rattlesnake <i>Crotalus durissus terrificus</i> . 2013 , 69, 1958-64	21
1182	Crystal structure and functional mechanism of a human antimicrobial membrane channel. 2013 , 110, 4586-91	91
1181	MrkD1P from <i>Klebsiella pneumoniae</i> strain IA565 allows for coexistence with <i>Pseudomonas aeruginosa</i> and protection from protease-mediated biofilm detachment. 2013 , 81, 4112-20	13
1180	Characterization of Antimicrobial Peptides toward the Development of Novel Antibiotics. 2013 , 6, 1055-81	160
1179	Central role of the gut epithelial barrier in the pathogenesis of chronic intestinal inflammation: lessons learned from animal models and human genetics. 2013 , 4, 280	269
1178	An apolipoprotein E mimetic peptide with activities against multidrug-resistant bacteria and immunomodulatory effects. 2013 , 19, 745-50	13

1177	Host defense peptides: general overview and an update on their activity against Chlamydia spp. 2013 , 11, 1215-24	9
1176	Rattusin, an intestinal α -defensin-related peptide in rats with a unique cysteine spacing pattern and salt-insensitive antibacterial activities. 2013 , 57, 1823-31	15
1175	Modulation of chicken intestinal immune gene expression by small cationic peptides as feed additives during the first week posthatch. 2013 , 20, 1440-8	27
1174	Probiotics: properties, examples, and specific applications. 2013 , 3, a010074	151
1173	Fundamental role for HIF-1 α in constitutive expression of human α -defensin-1. 2013 , 6, 1110-8	86
1172	Copy number variation of the antimicrobial-gene, defensin beta 4, is associated with susceptibility to cervical cancer. 2013 , 58, 250-3	18
1171	Focal targeting by human α -defensin 2 disrupts localized virulence factor assembly sites in Enterococcus faecalis. 2013 , 110, 20230-5	50
1170	THE TICK-VIRUS INTERFACE. 2013 , 603-616	0
1169	- Molecular Immunoassay Systems for Probiotics via Pattern Recognition Receptors. 2013 , 65-99	3
1168	Human α -defensin 3 peptide is increased and redistributed in Crohn's ileitis. 2013 , 19, 942-53	19
1167	Anti-HIV activity of human defensin 5 in primary CD4+ T cells under serum-deprived conditions is a consequence of defensin-mediated cytotoxicity. 2013 , 8, e76038	13
1166	The first salamander defensin antimicrobial peptide. 2013 , 8, e83044	29
1165	Biological scaffolds for regenerative medicine. 133-150	
1164	Defensins: More than Nature's Anti-bug Spray?. 2013 , s8,	
1163	New insights from the oyster Crassostrea rhizophorae on bivalve circulating hemocytes. 2013 , 8, e57384	58
1162	Recrudescence mechanisms and gene expression profile of the reproductive tracts from chickens during the molting period. 2013 , 8, e76784	30
1161	[Epithelial cell in intestinal homeostasis and inflammatory bowel diseases]. 2013 , 29, 1145-50	1
1160	Expression and antimicrobial function of beta-defensin 1 in the lower urinary tract. 2013 , 8, e77714	30

1159	A genome-wide association study for somatic cell score using the Illumina high-density bovine beadchip identifies several novel QTL potentially related to mastitis susceptibility. 2013 , 4, 229	44
1158	Innate immunity derived factors as external modulators of the CXCL12-CXCR4 axis and their role in stem cell homing and mobilization. 2013 , 3, 3-10	24
1157	Tumor-infiltrating immune cells promoting tumor invasion and metastasis: existing theories. 2013 , 4, 84-95	108
1156	Host defenses to extracellular bacteria. 2013 , 313-323	
1155	Synthetic Antimicrobial Peptides Exhibit Two Different Binding Mechanisms to the Lipopolysaccharides Isolated from <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> . 2014 , 2014, 809283	9
1154	Protein content analysis and antimicrobial activity of the crude venom of <i>Montivipera bornmuelleri</i> ; a viper from Lebanon. 2014 , 14, 49-55	13
1153	The role of high mobility group box 1 in innate immunity. 2014 , 55, 1165-76	72
1152	Killing of staphylococci by α -defensins involves membrane impairment and activation of autolytic enzymes. 2014 , 3, 617-31	29
1151	The Role of Cationic Polypeptides in Modulating HIV-1 Infection of the Cervicovaginal Mucosa. 2014 , 3, 677-93	2
1150	The impact of antifungals on toll-like receptors. 2014 , 5, 99	14
1149	Salivary concentration of the antimicrobial peptide LL-37 in patients with oral lichen planus. 2014 , 6, 26156	8
1148	Intestinal barrier in inflammatory bowel disease. 2014 , 20, 1165-79	195
1147	Effector Cells and Downstream Mediators in Severe Cutaneous Adverse Reactions. 2014 , 10, 24-32	2
1146	Resistance to Antimicrobial Peptides in <i>Vibrios</i> . 2014 , 3, 540-63	17
1145	. 2014 ,	1
1144	Innate Immunity. 2014 , 2-19	
1143	Distinct signaling pathways leading to the induction of human α -defensin 2 by stimulating an electrolytically-generated acid functional water and double strand RNA in oral epithelial cells. 2014 , 34, 97-103	7
1142	Salmonella methylglyoxal detoxification by STM3117-encoded lactoylglutathione lyase affects virulence in coordination with Salmonella pathogenicity island 2 and phagosomal acidification. 2014 , 160, 1999-2017	12

1141	Evidence of convergent evolution in humans and macaques supports an adaptive role for copy number variation of the β -defensin-2 gene. 2014 , 6, 3025-38	17
1140	Hepatitis C-associated mixed cryoglobulinemic vasculitis induces differential gene expression in peripheral mononuclear cells. 2014 , 5, 248	5
1139	Ontogeny of intestinal epithelial innate immune responses. 2014 , 5, 474	16
1138	Challenges and future prospects of antibiotic therapy: from peptides to phages utilization. 2014 , 5, 105	79
1137	Evolutionary tinkering of the expression of PDF1s suggests their joint effect on zinc tolerance and the response to pathogen attack. 2014 , 5, 70	16
1136	Avian antimicrobial host defense peptides: from biology to therapeutic applications. 2014 , 7, 220-47	78
1135	Delineation of interfaces on human alpha-defensins critical for human adenovirus and human papillomavirus inhibition. 2014 , 10, e1004360	32
1134	Epithelial antimicrobial peptides: guardian of the oral cavity. 2014 , 2014, 370297	52
1133	Defensins and viral infection: dispelling common misconceptions. 2014 , 10, e1004186	17
1132	Coat as a dagger: the use of capsid proteins to perforate membranes during non-enveloped DNA viruses trafficking. 2014 , 6, 2899-937	9
1131	Antimicrobial Bioactive Polymer Coatings. 2014 , 449-461	1
1130	Antimicrobial peptides: their role as infection-selective tracers for molecular imaging. 2014 , 2014, 867381	104
1129	Symbiotic plant peptides eliminate <i>Candida albicans</i> both in vitro and in an epithelial infection model and inhibit the proliferation of immortalized human cells. 2014 , 2014, 320796	22
1128	Human β -defensin-3 inhibits migration of colon cancer cells via downregulation of metastasis-associated 1 family, member 2 expression. 2014 , 45, 1059-64	20
1127	Alternative for improving gut microbiota: use of Jerusalem artichoke and probiotics in diet of weaned piglets. 2014 , 17, 61-9	7
1126	Secreted mucosal antimicrobials in the female reproductive tract that are important to consider for HIV prevention. 2014 , 71, 575-88	16
1125	The role of Rab27a in the regulation of neutrophil function. 2014 , 16, 1301-10	25
1124	The production of recombinant cationic β -helical antimicrobial peptides in plant cells induces the formation of protein bodies derived from the endoplasmic reticulum. 2014 , 12, 81-92	20

1123	Defending the fort: a role for defensin-2 in limiting <i>Rickettsia montanensis</i> infection of <i>Dermacentor variabilis</i> . 2014 , 23, 457-65	7
1122	Innate and adaptive immune responses in male and female reproductive tracts in homeostasis and following HIV infection. 2014 , 11, 410-27	47
1121	Altered β -defensin 5 expression in cervical squamocolumnar junction: implication in the formation of a viral/tumour-permissive microenvironment. 2014 , 234, 464-77	26
1120	Regulation of mucosal immunity in the female reproductive tract: the role of sex hormones in immune protection against sexually transmitted pathogens. 2014 , 72, 236-58	72
1119	Tacrolimus does not alter the production of several cytokines and antimicrobial peptide in <i>Malassezia furfur</i> -infected-keratinocytes. 2014 , 57, 176-83	12
1118	Antimicrobial protein produced by <i>Pseudomonas aeruginosa</i> JU-Ch 1, with a broad spectrum of antimicrobial activity. 2014 , 3, 332-337	6
1117	Bovine β -defensin gene family: opportunities to improve animal health?. 2014 , 46, 17-28	54
1116	The basics and advances of immunomodulators and antigen presentation: a key to development of potent memory response against pathogens. 2014 , 14, 1383-97	
1115	The microbiota and helminths: sharing the same niche in the human host. 2014 , 141, 1255-71	68
1114	Expression, purification, and in vitro comparative characterization of avian beta-defensin-2, -6, and -12. 2014 , 58, 541-9	8
1113	Genomics of Papaya Disease Resistance. 2014 , 277-307	2
1112	Neutrophil-Mediated Phagocytosis of <i>Staphylococcus aureus</i> . 2014 , 5, 467	101
1111	Encyclopedia of Medical Immunology. 2014 , 824-833	
1110	Antimicrobial peptides from fish. 2014 , 7, 265-310	190
1109	Beta-Defensin 124 Is Required for Efficient Innate Immune Responses in Prostate Epithelial RWPE-1 Cells. 2014 , 55, 417-25	2
1108	Preterm birth, intrauterine infection, and fetal inflammation. 2014 , 5, 574	111
1107	Defensins and sepsis. 2014 , 2014, 180109	10
1106	Boosting innate immunity: development and validation of a cell-based screening assay to identify LL-37 inducers. 2014 , 20, 364-76	20

1105	A novel subclass of bovine β -defensins links reproduction and immunology. 2014 , 26, 769-77	17
1104	Overview of Drosophila immunity: a historical perspective. 2014 , 42, 3-15	63
1103	Midkine in host defence. 2014 , 171, 859-69	9
1102	Defensin-based anti-infective strategies. 2014 , 304, 93-9	46
1101	Biological activity of antibacterial peptides matches synergism between electrostatic and non electrostatic forces. 2014 , 114, 363-71	11
1100	The innate immune response during urinary tract infection and pyelonephritis. 2014 , 29, 1139-49	99
1099	Genetics and Genomics of Papaya. 2014 ,	3
1098	Functional intersection of Human Defensin 5 with the TNF receptor pathway. 2014 , 588, 1906-12	10
1097	Recombinant expression, purification and characterization of antimicrobial peptide ORBK in Escherichia coli. 2014 , 95, 182-7	14
1096	Evolution of primate α - and β -defensins revealed by analysis of genomes. 2014 , 41, 3859-66	20
1095	An optimized Fmoc synthesis of human defensin 5. 2014 , 46, 395-400	13
1094	Antimicrobial peptides and proteins in mycobacterial therapy: current status and future prospects. 2014 , 94, 363-73	69
1093	Eco-immunology. 2014 ,	3
1092	From frog integument to human skin: dermatological perspectives from frog skin biology. 2014 , 89, 618-55	33
1091	Synthetically modified L-histidine-rich peptidomimetics exhibit potent activity against Cryptococcus neoformans. 2014 , 24, 3150-4	6
1090	Synthesis and antimicrobial activity of cysteine-free coprisin nonapeptides. 2014 , 443, 483-8	8
1089	DAMPs activating innate and adaptive immune responses in COPD. 2014 , 7, 215-26	98
1088	Immunology of the Female Genital Tract. 2014 ,	4

1087	Multifaceted roles of disulfide bonds. Peptides as therapeutics. 2014 , 114, 901-26	365
1086	An innovative biologic recycling process of leukoreduction filters to produce active human antimicrobial peptides. 2014 , 54, 1332-9	6
1085	Targeting hypoxia signalling for the treatment of ischaemic and inflammatory diseases. 2014 , 13, 852-69	216
1084	Host defense (Antimicrobial) peptide, human α -defensin-3, improves the function of the epithelial tight-junction barrier in human keratinocytes. 2014 , 134, 2163-2173	70
1083	Ribosomally synthesized peptides from natural sources. 2014 , 67, 277-89	19
1082	Immunotoxicology in Nonclinical Studies. 2014 , 393-404	
1081	Molecular cloning, characterization and tissue distribution of two ostrich α -defensins: AvBD2 and AvBD7. 2014 , 552, 1-7	8
1080	Mechanisms of abnormal lamellar body secretion and the dysfunctional skin barrier in patients with atopic dermatitis. 2014 , 134, 781-791.e1	132
1079	Effective control of Salmonella infections by employing combinations of recombinant antimicrobial human α -defensins hBD-1 and hBD-2. 2014 , 58, 6896-903	31
1078	Hydrophobic determinants of α -defensin bactericidal activity. 2014 , 82, 2195-202	11
1077	Association of plasma 25-hydroxyvitamin d concentrations and pathogenic oral bacteria in postmenopausal females. 2014 , 85, 944-55	6
1076	Skin barrier dysfunction and low antimicrobial peptide expression in cutaneous T-cell lymphoma. 2014 , 20, 4339-48	22
1075	How many antimicrobial peptide molecules kill a bacterium? The case of PMAP-23. 2014 , 9, 2003-7	105
1074	Effect of supplementing direct-fed microbials on broiler performance, nutrient digestibilities, and immune responses. 2014 , 93, 625-35	60
1073	Innate immune regulation by STAT-mediated transcriptional mechanisms. 2014 , 261, 84-101	45
1072	Epithelial innate immune response to Acinetobacter baumannii challenge. 2014 , 82, 4458-65	18
1071	Hydrophobicity and helicity regulate the antifungal activity of 14-helical α -peptides. 2014 , 9, 1613-21	44
1070	Immunology of inflammatory bowel disease and molecular targets for biologics. 2014 , 43, 405-24	43

1069	β-fused turn structures in sugar amino acid (SAA) containing cyclic tetrapeptides with β-architecture. 2014 , 70, 7681-7685	4
1068	Characterization and expression pattern of a novel β-defensin in common carp (<i>Cyprinus carpio</i> L.): implications for its role in mucosal immunity. 2014 , 78, 430-7	21
1067	A 24-48 h fed <i>Amblyomma americanum</i> tick saliva immuno-proteome. 2014 , 15, 518	74
1066	Synergistic effects of antimicrobial peptides and antibiotics against <i>Clostridium difficile</i> . 2014 , 58, 5719-25	63
1065	Animal models in burn research. 2014 , 71, 3241-55	231
1064	Humoral responses in <i>Rhodnius prolixus</i> : bacterial feeding induces differential patterns of antibacterial activity and enhances mRNA levels of antimicrobial peptides in the midgut. 2014 , 7, 232	55
1063	Semienzymatic cyclization of disulfide-rich peptides using Sortase A. 2014 , 289, 6627-6638	65
1062	Poly-lysine peptidomimetics having potent antimicrobial activity without hemolytic activity. 2014 , 46, 2259-69	16
1061	Effects of sexual maturation and <i>Salmonella</i> infection on the expression of avian β-defensin genes in the chicken testis. 2014 , 38, 107-13	6
1060	Expression of recombinant carcinoembryonic-antigen-human-β-defensin-2 gene in colon cancer HCT116 cells. 2014 , 68, 517-21	
1059	8p23 beta-defensin copy number determination by single-locus pseudogene-based paralog ratio tests risk bias due to low-frequency sequence variations. 2014 , 15, 64	5
1058	Antibacterial responses of retinal Müller glia: production of antimicrobial peptides, oxidative burst and phagocytosis. 2014 , 11, 33	29
1057	Cell-autonomous effector mechanisms against <i>Mycobacterium tuberculosis</i> . 2014 , 4,	25
1056	A review of the innate immune defence of the human foetus and newborn, with the emphasis on antimicrobial peptides. 2014 , 103, 1000-8	35
1055	Staphylococci: colonizers and pathogens of human skin. 2014 , 9, 75-91	88
1054	Discovery and characterization of a disulfide-locked C(2)-symmetric defensin peptide. 2014 , 136, 13494-7	42
1053	Microbiome, sex hormones, and immune responses in the reproductive tract: challenges for vaccine development against sexually transmitted infections. 2014 , 32, 1543-52	63
1052	Disulfide-rich macrocyclic peptides as templates in drug design. 2014 , 77, 248-57	96

1051	TCDD induces dermal accumulation of keratinocyte-derived matrix metalloproteinase-10 in an organotypic model of human skin. 2014 , 276, 171-8	4
1050	Ultrastructural immunocytochemistry suggests that periderm granules in embryonic chick epidermis contain beta-defensins. 2014 , 116, 943-8	1
1049	Induction of human defensins by intestinal Caco-2 cells after interactions with opportunistic <i>Candida</i> species. 2014 , 16, 80-5	19
1048	Development of an oral mucosa model to study host-microbiome interactions during wound healing. 2014 , 98, 6831-46	16
1047	Discovery of Short Peptides Exhibiting High Potency against <i>Cryptococcus neoformans</i> . 2014 , 5, 315-20	20
1046	Polymer multilayers loaded with antifungal peptides kill planktonic <i>Candida albicans</i> and reduce formation of fungal biofilms on the surfaces of flexible catheter tubes. 2014 , 191, 54-62	43
1045	Human defensin HBD3 binds to immobilized Bla g2 from the German cockroach (<i>Blattella germanica</i>). 2014 , 53, 265-9	3
1044	Inhibitory activity and molecular mechanism of protegrin-1 against porcine reproductive and respiratory syndrome virus in vitro. 2015 , 20, 573-82	14
1043	Colonization and infection of the skin by <i>S. aureus</i> : immune system evasion and the response to cationic antimicrobial peptides. 2014 , 15, 8753-72	77
1042	Innate Immunity in <i>Campylobacter</i> Infections. 2014 , 333-350	
1041	Bacterial Responses to the Host Cell. 2014 , 383-398	
1040	Heat-killed probiotic bacteria differentially regulate colonic epithelial cell production of human defensin-2: dependence on inflammatory cytokines. 2014 , 5, 483-95	31
1039	Non-invasive model of neuropathogenic <i>Escherichia coli</i> infection in the neonatal rat. 2014 , e52018	12
1038	Methionine sulfoxide reductases protect against oxidative stress in <i>Staphylococcus aureus</i> encountering exogenous oxidants and human neutrophils. 2014 , 6, 353-64	30
1037	Assessment of epithelial innate antimicrobial factors in sinus tissue from patients with and without chronic rhinosinusitis. 2014 , 4, 893-900	10
1036	Aging in personal and social immunity: do immune traits senesce at the same rate?. 2015 , 5, 4365-75	9
1035	Advances in the Discovery and Development of Peptide Therapeutics. 2015 ,	
1034	High-mobility group nucleosome-binding domain 2 protein inhibits the invasion of <i>Klebsiella pneumoniae</i> into mouse lungs in vivo. 2015 , 12, 1279-85	3

1033 Antibiotics: Initial Concepts and Considerations. **2015**, 4-15

1032 Antibiotic Resistance: Modification or Destruction of the Antibiotic. **2015**, 198-218

1031 Resistance via Target Modification. **2015**, 230-251

1030 Tuberculosis: A Formidable Challenge for Antibiotic Therapy. **2015**, 252-271

1029 Antibiotic Biosynthesis: Principles. **2015**, 276-287

1028 Biosynthesis of Peptide Antibiotics. **2015**, 288-318

1027 Biosynthesis of Polyketide Antibiotics. **2015**, 320-342

1026 Biosynthesis of Oligosaccharide, Isoprenoid, and C-P Antibiotic Classes. **2015**, 344-362

1025 Underexploited Pathways and Targets for Antibiotics. **2015**, 366-397

1024 Prospects for New Molecules and New Targets. **2015**, 398-419

1023 Major Classes of Antibiotics and Their Modes of Action. **2015**, 16-32

1022 Assembly of the Peptidoglycan Layer of Bacterial Cell Walls. **2015**, 36-67

1021 Antibiotics That Block Peptidoglycan Assembly and Integrity. **2015**, 68-100

1020 Antibiotics That Disrupt Membrane Integrity. **2015**, 102-113

1019 Antibiotics That Block Protein Synthesis. **2015**, 114-146

1018 Antibiotics That Target DNA and RNA Information Transfer. **2015**, 148-162

1017 Bacterial Antibiotic Resistance: Overview. **2015**, 180-196

1016 Development, Morphology, and Functional Anatomy of the Olfactory Epithelium. **2015**, 93-108

5

1015	Variation in innate immune function during incubation, chick-rearing and moult in Little Penguins (<i>Eudyptula minor</i>). 2015 , 115, 63-71	6
1014	Contribution of microbiota to the intestinal physicochemical barrier. 2015 , 6, 295-311	21
1013	Allelic variation at innate immune genes (avian β defensins), within a natural population of great tits. 2015 , 46, 113-118	10
1012	Relative quantification of human β defensins by a proteomics approach based on selected reaction monitoring. 2015 , 29, 1623-31	6
1011	Molecular Evolutionary Analysis of β Defensin Peptides in Vertebrates. 2015 , 11, 105-14	24
1010	Dynamics of lingual antimicrobial peptide, lactoferrin concentrations and lactoperoxidase activity in the milk of cows treated for clinical mastitis. 2015 , 86, 153-8	11
1009	Foldamers as Anticancer Therapeutics: Targeting Protein-Protein Interactions and the Cell Membrane. 2015 , 16, 1840-1853	18
1008	Diverse functions of defensins and other antimicrobial peptides in periodontal tissues. 2015 , 69, 96-110	26
1007	Identification of putative target genes of bZIP19, a transcription factor essential for Arabidopsis adaptation to Zn deficiency in roots. 2015 , 84, 323-34	58
1006	Poly(ethylene glycol)-containing hydrogels modulate β defensin release from polymorphonuclear leukocytes and monocyte recruitment. 2015 , 103, 3772-80	4
1005	Structure-Function Relationships of Antimicrobial Peptides and Proteins with Respect to Contact Molecules on Pathogen Surfaces. 2016 , 16, 89-98	16
1004	Preparation of polyclonal antibody against porcine beta defensin 2 and identification of its distribution in tissues of pig. 2015 , 14, 18863-71	9
1003	Modulation of the immune response to respiratory viruses by vitamin D. 2015 , 7, 4240-70	231
1002	Bacterial Metabolism in the Host Environment: Pathogen Growth and Nutrient Assimilation in the Mammalian Upper Respiratory Tract. 2015 , 231-261	
1001	Molecular Defense Mechanisms during Urinary Tract Infection. 2015 , 10, 57	1
1000	Review on vaccine design strategies against cancer. 2015 , 7, 1-12	
999	Antimicrobial activities of chicken β defensin (4 and 10) peptides against pathogenic bacteria and fungi. 2015 , 5, 36	26
998	The Potential Use of Natural and Structural Analogues of Antimicrobial Peptides in the Fight against Neglected Tropical Diseases. 2015 , 20, 15392-433	32

997	Antimicrobial Peptides in Human Sepsis. 2015 , 6, 404	63
996	New insights on the development of fungal vaccines: from immunity to recent challenges. 2015 , 110, 966-73	42
995	Mammalian Antimicrobial Peptides: Promising Therapeutic Targets Against Infection and Chronic Inflammation. 2016 , 16, 99-129	56
994	Plasticity of neutrophils reveals modulatory capacity. 2015 , 48, 665-75	30
993	The antimicrobial activity of gramicidin A is associated with hydroxyl radical formation. 2015 , 10, e0117065	38
992	The effect on the transcriptome of <i>Anemone coronaria</i> following infection with rust (<i>Tranzschelia discolor</i>). 2015 , 10, e0118565	7
991	The Frog Skin-Derived Antimicrobial Peptide Esculentin-1a(1-21)NH ₂ Promotes the Migration of Human HaCaT Keratinocytes in an EGF Receptor-Dependent Manner: A Novel Promoter of Human Skin Wound Healing?. 2015 , 10, e0128663	58
990	<i>Streptococcus pyogenes</i> Sortase Mutants Are Highly Susceptible to Killing by Host Factors Due to Aberrant Envelope Physiology. 2015 , 10, e0140784	14
989	iDPF-PseRAAAC: A Web-Server for Identifying the Defensin Peptide Family and Subfamily Using Pseudo Reduced Amino Acid Alphabet Composition. 2015 , 10, e0145541	40
988	Identification of a cell-penetrating peptide domain from human beta-defensin 3 and characterization of its anti-inflammatory activity. 2015 , 10, 5423-34	21
987	Structure-activity exploration of a small-molecule Lipid II inhibitor. 2015 , 9, 2383-94	6
986	Peptides and Peptidomimetics for Antimicrobial Drug Design. 2015 , 8, 366-415	134
985	Trans-Species Polymorphism in Immune Genes: General Pattern or MHC-Restricted Phenomenon?. 2015 , 2015, 838035	33
984	Bacterial Metabolism in the Host Environment: Pathogen Growth and Nutrient Assimilation in the Mammalian Upper Respiratory Tract. 2015 , 3,	7
983	Editorial (Thematic Issue: Advances in Peptides as Therapeutic Drugs). 2015 , 16, 131-132	
982	References. 2015 , 421-454	
981	Influence of histamine on the expression of CCL20 in human gingival fibroblasts. 2015 , 50, 786-92	4
980	Effect of transient blood glucose increases after oral glucose intake on the human urinary proteome. 2015 , 9, 618-22	4

979	Defensins in Enteric Mucosal Immunity. 2015 , 271-285	4
978	Bacterial Interactions with Mucosal Epithelial Cells. 2015 , 955-973	1
977	Mucosal Immunity in the Human Female Reproductive Tract. 2015 , 2097-2124	4
976	Spectral and biological evaluation of a synthetic antimicrobial peptide derived from 1-aminocyclohexane carboxylic acid. 2015 , 23, 1341-7	3
975	Purification and characterization of a novel antibacterial peptide from black soldier fly (<i>Hermetia illucens</i>) larvae. 2015 , 52, 98-106	95
974	Interaction of cysteine-rich cationic antimicrobial peptides with intact bacteria and model membranes. 2015 , 34, 135-44	13
973	Development and trafficking function of haematopoietic stem cells and myeloid cells during fetal ontogeny. 2015 , 107, 352-63	10
972	Negative feedback contributes to the stochastic expression of the interferon- β gene in virus-triggered type I interferon signaling pathways. 2015 , 265, 12-27	7
971	Colonic MUC2 mucin regulates the expression and antimicrobial activity of β -defensin 2. 2015 , 8, 1360-72	62
970	Next-generation nanoantibacterial tools developed from peptides. 2015 , 10, 1643-61	7
969	Various forms of tissue damage and danger signals following hematopoietic stem-cell transplantation. 2015 , 6, 14	33
968	An evolutionary history of defensins: a role for copy number variation in maximizing host innate and adaptive immune responses. 2015 , 6, 115	55
967	Genes encoding defensins of important Chagas disease vectors used for phylogenetic studies. 2015 , 114, 4503-11	9
966	An Arabidopsis WDR protein coordinates cellular networks involved in light, stress response and hormone signals. 2015 , 241, 23-31	9
965	Antimicrobial peptides in the female reproductive tract: a critical component of the mucosal immune barrier with physiological and clinical implications. 2015 , 21, 353-77	103
964	Membrane protein 4F2/CD98 is a cell surface receptor involved in the internalization and trafficking of human β -Defensin 3 in epithelial cells. 2015 , 22, 217-28	20
963	Dynamic changes in the spatio-temporal expression of the β -defensin SPAG11C in the developing rat epididymis and its regulation by androgens. 2015 , 404, 141-50	8
962	The relationship between CCR6 and its binding partners: does the CCR6-CCL20 axis have to be extended?. 2015 , 72, 97-101	32

961	Visualizing attack of Escherichia coli by the antimicrobial peptide human defensin 5. 2015 , 54, 1767-77	69
960	Defensins: "Simple" antimicrobial peptides or broad-spectrum molecules?. 2015 , 26, 361-70	84
959	High-yield recombinant expression of the chicken antimicrobial peptide fowlicidin-2 in Escherichia coli. 2015 , 31, 369-74	8
958	Antimicrobial peptides: an alternative for innovative medicines?. 2015 , 99, 2023-40	125
957	Human α -defensin-3 increases the expression of interleukin-37 through CCR6 in human keratinocytes. 2015 , 77, 46-53	35
956	Complexity of antimicrobial peptide regulation during pathogen-host interactions. 2015 , 45, 447-54	19
955	Intestinal mucus affinity and biological activity of an orally administered antibacterial and anti-inflammatory peptide. 2015 , 64, 222-32	21
954	Antimicrobial defense of the intestine. 2015 , 42, 28-39	173
953	Synthesis and antibacterial activities of antibacterial peptides with a spiropyran fluorescence probe. 2014 , 4, 6860	8
952	Depressed production of beta-defensins from mouse splenic dendritic cells following thermal injury and its influence on susceptibility to infection. 2015 , 29, 78-86	2
951	Vitamin D as an adjunctive therapy in asthma. Part 1: A review of potential mechanisms. 2015 , 32, 60-74	23
950	Privileged frameworks from snake venom. 2015 , 72, 1939-58	27
949	Cystic fibrosis microbiology: Advances in antimicrobial therapy. 2015 , 14, 551-60	67
948	A hybrid cationic peptide composed of human α -defensin-1 and humanized β -defensin sequences exhibits salt-resistant antimicrobial activity. 2015 , 59, 217-25	14
947	Enhancement of salivary human neutrophil peptide 1-3 levels by probiotic supplementation. 2015 , 15, 19	26
946	Ovodefensins, an Oviduct-Specific Antimicrobial Gene Family, Have Evolved in Birds and Reptiles to Protect the Egg by Both Sequence and Intra-Six-Cysteine Sequence Motif Spacing. 2015 , 92, 154	28
945	HBD-3 induces NK cell activation, IFN- γ secretion and mDC dependent cytolytic function. 2015 , 297, 61-8	10
944	Identification and Characterization of the First Cathelicidin from Sea Snakes with Potent Antimicrobial and Anti-inflammatory Activity and Special Mechanism. 2015 , 290, 16633-52	58

943	Amplifying renal immunity: the role of antimicrobial peptides in pyelonephritis. 2015 , 11, 642-55	51
942	Discovering probiotic microorganisms: in vitro, in vivo, genetic and omics approaches. 2015 , 6, 58	179
941	Antimicrobial peptides and complement in neonatal hypoxia-ischemia induced brain damage. 2015 , 6, 56	41
940	Insight into the impact of environments on structure of chimera C3 of human α -defensins 2 and 3 from molecular dynamics simulations. 2015 , 33, 1989-2002	3
939	Viperidins, Snake Venom Cathelicidin-Related Peptides, in the Milieu of Reptilian Antimicrobial Polypeptides. 2015 , 1-25	1
938	Small-Anion Selective Transmembrane "Holes" Induced by an Antimicrobial Peptide Too Short to Span Membranes. 2015 , 119, 8553-60	10
937	Structure-Activity Relationships in the Host-Defense Antimicrobial Peptides Defensins. 2015 , 69-97	1
936	Deep Sequencing Analysis of the Ixodes ricinus Haemocytome. 2015 , 9, e0003754	20
935	Identification of 24h Ixodes scapularis immunogenic tick saliva proteins. 2015 , 6, 424-34	38
934	MRP8/14 induces autophagy to eliminate intracellular Mycobacterium bovis BCG. 2015 , 70, 415-26	9
933	PPAR α agonists inhibit inflammatory activation of macrophages through upregulation of α -defensin 1. 2015 , 240, 389-97	16
932	Anti-endotoxic and antibacterial effects of a dermal substitute coated with host defense peptides. 2015 , 53, 415-25	12
931	Neutrophils and inflammatory metabolism in antimicrobial functions of the mucosa. 2015 , 98, 517-22	23
930	Mucosal physical and chemical innate barriers: Lessons from microbial evasion strategies. 2015 , 27, 111-8	42
929	α -Defensin in Nile tilapia (<i>Oreochromis niloticus</i>): Sequence, tissue expression, and anti-bacterial activity of synthetic peptides. 2015 , 566, 23-31	33
928	A defensin from clam <i>Venerupis philippinarum</i> : Molecular characterization, localization, antibacterial activity, and mechanism of action. 2015 , 51, 29-38	33
927	Combined use of ion mobility and collision-induced dissociation to investigate the opening of disulfide bridges by electron-transfer dissociation in peptides bearing two disulfide bonds. 2015 , 87, 5240-6	19
926	Human Basal Tear Peptidome Characterization by CID, HCD, and ETD Followed by in Silico and in Vitro Analyses for Antimicrobial Peptide Identification. 2015 , 14, 2649-58	38

925	Overlap and diversity in antimicrobial peptide databases: compiling a non-redundant set of sequences. 2015 , 31, 2553-9	32
924	Study of Toll-like receptor and B-defensins genes expression pattern in porcine reproductive organs. 2015 , 26, 188-93	3
923	Massive expansion and functional divergence of innate immune genes in a protostome. 2015 , 5, 8693	151
922	<i>Tribolium castaneum</i> immune defense genes are differentially expressed in response to <i>Bacillus thuringiensis</i> toxins sharing common receptor molecules and exhibiting disparate toxicity. 2015 , 50, 139-45	20
921	Engineering of a linear inactive analog of human α -defensin 4 to generate peptides with potent antimicrobial activity. 2015 , 21, 501-11	12
920	Physiologic hypoxia and oxygen homeostasis in the healthy intestine. A Review in the Theme: Cellular Responses to Hypoxia. 2015 , 309, C350-60	204
919	Functional synergism of Human Defensin 5 and Human Defensin 6. 2015 , 467, 967-72	11
918	Site-specific labeling of synthetic peptide using the chemoselective reaction between N-methoxyamino acid and isothiocyanate. 2015 , 21, 765-9	2
917	Majocchi's Granuloma (Dermatophytic Granuloma): Updated Therapeutic Options. 2015 , 9, 204-212	5
916	Molecular Characterization and In Silico Analysis of Defensin From <i>Tor putitora</i> (Hamilton). 2015 , 7, 207-15	6
915	The role of intestinal epithelial barrier function in the development of NEC. 2015 , 3, e1000707	91
914	Effects of antimicrobial peptides (AMPs) on blood biochemical parameters, antioxidase activity, and immune function in the common carp (<i>Cyprinus carpio</i>). 2015 , 47, 429-34	41
913	Design of stable hairpin mimetics through backbone disulfide bonds. 2015 , 17, 230-3	9
912	Paneth cell α -defensin 6 (HD-6) is an antimicrobial peptide. 2015 , 8, 661-71	69
911	Muramyl dipeptide activates human beta defensin 2 and pro-inflammatory mediators through Toll-like receptors and NLRP3 inflammasomes in human dental pulp cells. 2015 , 19, 1419-28	28
910	Phosphoinositides in phagocytosis and macropinocytosis. 2015 , 1851, 805-23	100
909	Apoptotic human neutrophil peptide-1 anti-tumor activity revealed by cellular biomechanics. 2015 , 1853, 308-16	43
908	Monitoring antibacterial permeabilization in real time using time-resolved flow cytometry. 2015 , 1848, 554-60	33

907	Utilization of plant-derived recombinant human α -defensins (hBD-1 and hBD-2) for averting salmonellosis. 2015 , 24, 353-64	14
906	Potential roles of placental human beta-defensin-3 and apolipoprotein B mRNA-editing enzyme catalytic polypeptide 3G in prevention of intrauterine transmission of hepatitis B virus. 2015 , 87, 375-9	11
905	Therapeutic potential of adenovirus-mediated delivery of α -defensin 2 for experimental otitis media. 2015 , 21, 215-24	14
904	Antimicrobial peptides in echinoderm host defense. 2015 , 49, 190-7	24
903	Galectins. 2015 ,	1
902	Esculentin-1a(1-21)NH ₂ : a frog skin-derived peptide for microbial keratitis. 2015 , 72, 617-627	39
901	Antiviral drug discovery: broad-spectrum drugs from nature. 2015 , 32, 29-48	112
900	Naturally derived and synthetic scaffolds for skeletal muscle reconstruction. 2015 , 84, 208-21	151
899	Human Herpesviruses as Copathogens of HIV Infection, Their Role in HIV Transmission, and Disease Progression. 2016 , 8, 5-18	29
898	Molecular Evolutionary Analysis of α -Defensin Peptides in Vertebrates. 2016 , 44, 85-93	2
897	Bacterial Evasion of Host Antimicrobial Peptide Defenses. 2016 , 413-443	0
896	Amniotic membrane in clinical medicine. 2016 , 151-176	2
895	Cyclisation mechanisms in the biosynthesis of ribosomally synthesised and post-translationally modified peptides. 2016 , 12, 1250-68	32
894	Stem Cell Homing. 2016 , 21-34	
893	Status, Antimicrobial Mechanism, and Regulation of Natural Preservatives in Livestock Food Systems. 2016 , 36, 547-57	29
892	Defensins: The Case for Their Use against Mycobacterial Infections. 2016 , 2016, 7515687	25
891	Elevated Concentration of Defensins in Hepatitis C Virus-Infected Patients. 2016 , 2016, 8373819	3
890	Chemical immobilization of antimicrobial peptides on biomaterial surfaces. 2016 , 8, 129-42	25

889	A recombinantly tailored β -defensin that displays intensive macropinocytosis-mediated uptake exerting potent efficacy against K-Ras mutant pancreatic cancer. 2016 , 7, 58418-58434	16
888	Expression of Immune-Related Genes of Ducks Infected with Avian Pathogenic Escherichia coli (APEC). 2016 , 7, 637	9
887	Antimicrobials from Cnidarians. A New Perspective for Anti-Infective Therapy?. 2016 , 14,	23
886	Paneth cell β -defensins and enteric microbiota in health and disease. 2016 , 35, 57-67	55
885	The level of beta defensin-2 in saliva and its expression in parotid gland epithelial cells after probiotic (<i>L.</i>) induction to inhibit in caries. 2016 , 10, 556-560	5
884	Human β -defensin 3 contains an oncolytic motif that binds PI(4,5)P2 to mediate tumour cell permeabilisation. 2016 , 7, 2054-69	36
883	β -defensins and the epididymis: contrasting influences of prenatal, postnatal, and adult scenarios. 2016 , 18, 323-8	34
882	Immunology of the Female Reproductive Mucosa. 2016 , 63-72	1
881	A Thioether-Stabilized d-Proline-l-Proline-Induced β -Hairpin Peptide of Defensin Segment Increases Its Anti-Candida albicans Ability. 2016 , 17, 1416-20	16
880	Structure-function analysis of Avian β -defensin-6 and β -defensin-12: role of charge and disulfide bridges. 2016 , 16, 210	26
879	Lipopolysaccharide induces SBD-1 expression via the P38 MAPK signaling pathway in ovine oviduct epithelial cells. 2016 , 15, 127	10
878	An ancestral host defence peptide within human β -defensin 3 recapitulates the antibacterial and antiviral activity of the full-length molecule. 2015 , 5, 18450	30
877	Cauda Epididymis-Specific Beta-Defensin 126 Promotes Sperm Motility but Not Fertilizing Ability in Cattle. 2016 , 95, 122	28
876	Bacterial Evasion of Host Antimicrobial Peptide Defenses. 2016 , 4,	71
875	Comparative genomic identification and expression profiling of a novel β -defensin gene cluster in the equine reproductive tract. 2015 ,	7
874	Evolution of Cell-Autonomous Effector Mechanisms in Macrophages versus Non-Immune Cells. 2016 , 4,	15
873	Butyrate upregulates endogenous host defense peptides to enhance disease resistance in piglets via histone deacetylase inhibition. 2016 , 6, 27070	69
872	Neutrophil-derived alpha defensins control inflammation by inhibiting macrophage mRNA translation. 2016 , 113, 4350-5	47

871	Sodium butyrate in chicken nutrition: the dynamics of performance, gut microbiota, gut morphology, and immunity. 2016 , 72, 265-275	37
870	Single-Molecule Sequencing. 2016 , 217-235	1
869	Alarmins and Antitumor Immunity. 2016 , 38, 1042-53	36
868	An alternative approach to the synthesis of peptides containing a cystathionine bridge. 2016 , 72, 3256-3261	2
867	Antimicrobial peptides in saliva of children with severe early childhood caries. 2016 , 69, 40-6	25
866	Antiviral Host Defence Peptides. 2016 , 57-94	1
865	Identification, structural characterisation and expression analysis of a defensin gene from the tiger beetle <i>Calomera littoralis</i> (Coleoptera: Cicindelidae). 2016 , 589, 56-62	7
864	Interaction of antimicrobial peptide with mycolyl transferase in <i>Mycobacterium tuberculosis</i> . 2016 , 5, 83-8	8
863	60 YEARS OF POMC: Regulation of feeding and energy homeostasis by β MSH. 2016 , 56, T157-74	89
862	Bacterial strategies of resistance to antimicrobial peptides. 2016 , 371,	165
861	Echinoderm Antimicrobial Peptides. 2016 , 159-176	2
860	Host Defense Peptides and Their Potential as Therapeutic Agents. 2016 ,	9
859	How to Teach Old Antibiotics New Tricks. 2016 , 253-290	0
858	Antimicrobial peptides in marine invertebrate health and disease. 2016 , 371,	71
857	Increased mRNA expression of selected antimicrobial peptides around ovulation and during inflammatory processes in the bovine endometrium postpartum. 2016 , 86, 2040-53	8
856	NMR structure and conformational dynamics of AtPDFL2.1, a defensin-like peptide from <i>Arabidopsis thaliana</i> . 2016 , 1864, 1739-1747	8
855	Gene therapy based in antimicrobial peptides and proinflammatory cytokine prevents reactivation of experimental latent tuberculosis. 2016 , 74,	10
854	Ion Mobility-Mass Spectrometry as a Tool for the Structural Characterization of Peptides Bearing Intramolecular Disulfide Bond(s). 2016 , 27, 1637-46	13

853	Abundance of RNase4 and RNase5 mRNA and protein in host defence related tissues and secretions in cattle. 2016 , 8, 261-267	6
852	Antifungal Peptides with Potential Against Pathogenic Fungi. 2016 , 75-95	1
851	Anatomical site-specific contributions of pneumococcal virulence determinants. 2016 , 8,	16
850	Biological Active Antifungal Peptides. 2016 , 15-25	
849	Antiviral function of Tachyplesin I against iridovirus and nodavirus. 2016 , 58, 96-102	9
848	Study of the Peptide-Peptide and Peptide-Protein Interactions and Their Applications in Cell Imaging and Nanoparticle Surface Modification. 2016 ,	
847	Mammalian host defense peptides and their implication on combating Leishmania infection. 2016 , 309, 23-31	11
846	Specific alleles at immune genes, rather than genome-wide heterozygosity, are related to immunity and survival in the critically endangered Attwater's prairie-chicken. 2016 , 25, 4730-44	42
845	Oral pathogens change proliferation properties of oral tumor cells by affecting gene expression of human defensins. 2016 , 37, 13789-13798	28
844	Targeting bactoprenol-coupled cell envelope precursors. 2016 , 100, 7815-25	5
843	Antimicrobial nodule-specific cysteine-rich peptides disturb the integrity of bacterial outer and inner membranes and cause loss of membrane potential. 2016 , 15, 43	28
842	The Evolution of Innate Immune Genes: Purifying and Balancing Selection on β -Defensins in Waterfowl. 2016 , 33, 3075-3087	25
841	Proteolytically Stable Foldamer Mimics of Host-Defense Peptides with Protective Activities in a Murine Model of Bacterial Infection. 2016 , 59, 8221-32	26
840	Orientation Determination of a Hybrid Peptide Immobilized on CVD-Based Reactive Polymer Surfaces. 2016 , 120, 19078-19086	11
839	Cytotoxicity and the effect of cationic peptide fragments against cariogenic bacteria under planktonic and biofilm conditions. 2016 , 32, 995-1006	20
838	Low β -Defensin gene copy number increases the risk for IgA nephropathy and renal dysfunction. 2016 , 8, 345ra88	21
837	Caries and Innate Immunity: DEFB1 Gene Polymorphisms and Caries Susceptibility in Genetic Isolates from North-Eastern Italy. 2016 , 50, 589-594	15
836	Identification of proteins from 4200-year-old skin and muscle tissue biopsies from ancient Egyptian mummies of the first intermediate period shows evidence of acute inflammation and severe immune response. 2016 , 374,	5

835	New insights into upper airway innate immunity. 2016 , 30, 319-23	40
834	Cyclisation of Disulfide-Rich Conotoxins in Drug Design Applications. 2016 , 2016, 3462-3472	10
833	New Found Hope for Antibiotic Discovery: Lipid II Inhibitors. 2016 , 22, 12606-16	32
832	Interleukin-17A (IL-17A) and IL-17F Are Critical for Antimicrobial Peptide Production and Clearance of Staphylococcus aureus Nasal Colonization. 2016 , 84, 3575-3583	34
831	Proteomic analysis of egg white heparin-binding proteins: towards the identification of natural antibacterial molecules. 2016 , 6, 27974	39
830	Potent Inducers of Endogenous Antimicrobial Peptides for Host Directed Therapy of Infections. 2016 , 6, 36692	20
829	The "ins and outs" of complement-driven immune responses. 2016 , 274, 16-32	80
828	Entinostat up-regulates the CAMP gene encoding LL-37 via activation of STAT3 and HIF-1 transcription factors. 2016 , 6, 33274	25
827	Mechanism of Four de Novo Designed Antimicrobial Peptides. 2016 , 291, 25706-25715	10
826	Use of recombinant porcine defensin 2 as a medicated feed additive for weaned piglets. 2016 , 6, 26790	17
825	Antibacterial activity identification of pCM19 and pCM12 derived from hGlyrichin. 2016 , 5, 1382	1
824	Leveraging family-specific signatures for AMP discovery and high-throughput annotation. 2016 , 6, 24684	12
823	Basic characterization of avian defensin genes in the Japanese quail, Coturnix japonica. 2016 , 87, 311-20	5
822	CXCL14 as an emerging immune and inflammatory modulator. 2016 , 13, 1	78
821	Comparison of the pathogen species-specific immune response in udder derived cell types and their models. 2016 , 47, 22	32
820	Virucidal activity of human defensins against hepatitis C virus genotype 4. 2016 , 12, 2785-97	6
819	Antibacterial and anticancer activity of a series of novel peptides incorporating cyclic tetra-substituted C-terminal amino acids. 2016 , 24, 4056-4065	17
818	The gut microbiome as a virtual endocrine organ with implications for farm and domestic animal endocrinology. 2016 , 56 Suppl, S44-55	19

817	Relevance of defensin β and δ defensins (HNP1-3) in Alzheimer's disease. 2016 , 239, 342-5	6
816	Inflammation and Its Mediators. 2016 , 14-32.e2	1
815	Innate Immunity. 2016 , 184-205.e7	1
814	Systematic Review: Insight into Antimalarial Peptide. 2016 , 22, 325-340	8
813	CAMPR3: a database on sequences, structures and signatures of antimicrobial peptides. 2016 , 44, D1094-7	320
812	Potent Human β Amylase Inhibition by the δ Defensin-like Protein Helianthamide. 2016 , 2, 154-161	24
811	Functional structure and antimicrobial activity of persulcatusin, an antimicrobial peptide from the hard tick <i>Ixodes persulcatus</i> . 2016 , 9, 85	13
810	A novel defensin-like antimicrobial peptide from the skin secretions of the tree frog, <i>Theloderma kwangsiensis</i> . 2016 , 576, 136-40	10
809	Role of amphipathicity and hydrophobicity in the balance between hemolysis and peptide-membrane interactions of three related antimicrobial peptides. 2016 , 141, 528-536	81
808	δ Defensins Induce a Post-translational Modification of Low Density Lipoprotein (LDL) That Promotes Atherosclerosis at Normal Levels of Plasma Cholesterol. 2016 , 291, 2777-86	10
807	Decoding DNA, RNA and peptides with quantum tunnelling. 2016 , 11, 117-26	141
806	Antimicrobial Peptides: Maintaining Sterility of the Urinary Tract. 2016 , 53-65	
805	A lack of association between genetic polymorphisms in beta-defensins and susceptibility of psoriasis in Taiwanese: A case-control study. 2016 , 34, 78-82	5
804	Molecular Insights into the Adsorption Mechanism of Human δ Defensin-3 on Bacterial Membranes. 2016 , 32, 1782-90	40
803	The association of defensin HNP-2 with negatively charged membranes: A combined fluorescence and linear dichroism study. 2016 , 1858, 892-903	2
802	Intestinal stem cells and intestinal homeostasis in health and in inflammation: A review. 2016 , 159, 1237-48	17
801	FAD-I, a <i>Fusobacterium nucleatum</i> Cell Wall-Associated Diacylated Lipoprotein That Mediates Human Beta Defensin 2 Induction through Toll-Like Receptor-1/2 (TLR-1/2) and TLR-2/6. 2016 , 84, 1446-1456	19
800	Synthesis and activity of a diselenide bond mimetic of the antimicrobial protein caenopore-5. 2016 , 7, 2005-2010	18

799	Defensin gene variation and HIV/AIDS: a comprehensive perspective needed. 2016 , 99, 687-92	11
798	Dichotomous Roles of Cationic Polypeptides Targeting HIV. 2016 , 115-127	
797	Antimicrobial Peptides. 2016 ,	7
796	Oncogenic relevant defensins: expression pattern and proliferation characteristics of human tumor cell lines. 2016 , 37, 7959-66	7
795	Vulvovaginal candidiasis: Epidemiology, microbiology and risk factors. 2016 , 42, 905-27	239
794	Combined analysis of primary lymphoid tissues' transcriptomic response to extra-intestinal Escherichia coli (ExPEC) infection. 2016 , 57, 99-106	10
793	Antimicrobial proteins and peptides in human lung diseases: A friend and foe partnership with host proteases. 2016 , 122, 151-68	37
792	Hit 'em where it hurts: The growing and structurally diverse family of peptides that target lipid-II. 2016 , 1858, 947-57	46
791	Elimination Side Reactions. 2016 , 33-42	1
790	Probiotics and Colorectal Cancer. 2016 , 15-34	4
789	An intimate link between antimicrobial peptide sequence diversity and binding to essential components of bacterial membranes. 2016 , 1858, 958-70	60
788	Tissue- and age-dependent expression of the bovine DEFB103 gene and protein. 2016 , 363, 479-90	4
787	Antimicrobial potentials and structural disorder of human and animal defensins. 2016 , 28, 95-111	45
786	An overview of antifungal peptides derived from insect. 2016 , 80, 80-88	47
785	Oral antimicrobial peptides: Types and role in the oral cavity. 2016 , 24, 515-524	90
784	Human tear proteomics and peptidomics in ophthalmology: Toward the translation of proteomic biomarkers into clinical practice. 2017 , 150, 359-367	51
783	Diabetic retinopathy: Proteomic approaches to help the differential diagnosis and to understand the underlying molecular mechanisms. 2017 , 150, 351-358	15
782	Determining the cleavage site for the mature antimicrobial peptide of Nile tilapia defensin using 2D electrophoresis, western blot, and mass spectrometry analysis. 2017 , 62, 41-46	2

781	Effects of precalving body condition and parturition feeding level on gene expression in circulating neutrophils. 2017 , 100, 2310-2322	12
780	Advances in lactoferrin research concerning bovine mastitis. 2017 , 95, 69-75	18
779	Mouse versus Human Neutrophils in Cancer: A Major Knowledge Gap. 2017 , 3, 149-160	63
778	Peptoids successfully inhibit the growth of gram negative E. coli causing substantial membrane damage. 2017 , 7, 42332	44
777	The cationic small molecule GW4869 is cytotoxic to high phosphatidylserine-expressing myeloma cells. 2017 , 177, 423-440	15
776	TLR ligands, but not modulators of histone modifiers, can induce the complex immune response pattern of endotoxin tolerance in mammary epithelial cells. 2017 , 23, 155-164	16
775	Thioether-derived Macrocyclic Peptide Secondary Structure Fixation. 2017 , 17, 874-885	8
774	Disulfide Connectivity Analysis of Peptides Bearing Two Intramolecular Disulfide Bonds Using MALDI In-Source Decay. 2018 , 29, 1995-2002	5
773	Gut Microbiota-Stimulated Innate Lymphoid Cells Support α -Defensin 14 Expression in Pancreatic Endocrine Cells, Preventing Autoimmune Diabetes. 2018 , 28, 557-572.e6	67
772	Hemolymph defensin from the hard tick Haemaphysalis longicornis attacks Gram-positive bacteria. 2018 , 156, 14-18	6
771	Neutralization of Pseudomonas aeruginosa Exotoxin A by human neutrophil peptide 1. 2018 , 501, 454-457	2
770	The impact of cathelicidin, the human antimicrobial peptide LL-37 in urinary tract infections. 2018 , 18, 17	10
769	Salivary Protein Roles in Oral Health and as Predictors of Caries Risk. 2018 , 13, 174-200	9
768	Human α -Defensin-1: A natural antimicrobial peptide present in amniotic fluid that is increased in spontaneous preterm labor with intra-amniotic infection. 2018 , 80, e13031	27
767	A Dynamic Overview of Antimicrobial Peptides and Their Complexes. 2018 , 23,	11
766	Regulation of Cationic Antimicrobial Peptides Expression in the Digestive Tract. 2018 , 1-20	0
765	Immunomodulatory Functions of the Gastrointestinal Tract. 2018 , 685-771	1
764	Synthesis, antibacterial, and antibiofilm potential of human autophagy 16 polypeptide and analogues. 2018 , 110, e24076	3

763	Revitalizing the drug pipeline: AntibioticDB, an open access database to aid antibacterial research and development. 2018 , 73, 2284-2297	22
762	Human antimicrobial peptides and cancer. 2019 , 88, 156-162	34
761	Protein-Peptide Interactions in Regulatory Events. 2019 , 688-696	
760	Expression, Purification and Characterization of a Novel Antimicrobial Peptide: Gloverin A2 from <i>Bombyx mori</i> . 2019 , 25, 827-833	7
759	Peptide based antimicrobials: Design strategies and therapeutic potential. 2019 , 142, 10-22	19
758	Multifaceted immune functions of human defensins and underlying mechanisms. 2019 , 88, 163-172	60
757	Adaptation to Adversity: the Intermingling of Stress Tolerance and Pathogenesis in Enterococci. 2019 , 83,	26
756	Dynamics of human defensin 5 (HD5) self-assembly in solution: Molecular simulations/insights. 2019 , 83, 107091	6
755	Mucosal-associated invariant T cells and disease. <i>Nature Reviews Immunology</i> , 2019 , 19, 643-657	36.5 96
754	Synthesis and Bioactivities of New Membrane-Active Agents with Aromatic Linker: High Selectivity and Broad-Spectrum Antibacterial Activity. 2019 , 5, 1535-1545	12
753	Antimicrobial activity, mechanism of action, and methods for stabilisation of defensins as new therapeutic agents. 2019 , 33, 671-682	31
752	Permeation of beta-defensin-3 encapsulated with polyethylene glycol in lung surfactant models at air-water interface. 2019 , 182, 110357	8
751	Longitudinal Survey of Fungi in the Human Gut: ITS Profiling, Phenotyping, and Colonization. 2019 , 10, 1575	43
750	Antiviral activity of Piscidin 1 against pseudorabies virus both in vitro and in vivo. 2019 , 16, 95	12
749	Mode of action of the antimicrobial peptide Mel4 is independent of <i>Staphylococcus aureus</i> cell membrane permeability. 2019 , 14, e0215703	34
748	Therapeutic compounds targeting Lipid II for antibacterial purposes. 2019 , 12, 2613-2625	17
747	Emerging role of biologics for the treatment of melioidosis and glanders. 2019 , 19, 1319-1332	3
746	Sensitizing Agents to Restore Antibiotic Resistance. 2019 , 429-452	1

745	Antibacterial spectrum of human omentum and differential expression of beta defensins. 2019 , 38, 303-309	2
744	S-Layer Protein of SBT2171 Promotes Human β -Defensin 2 Expression via TLR2-JNK Signaling. 2019 , 10, 2414	9
743	Integrated solid-state NMR and molecular dynamics modeling determines membrane insertion of human β -defensin analog. 2019 , 2, 402	12
742	Antimicrobial function of short amidated peptide fragments from the tick-derived OsDef2 defensin. 2019 , 25, e3223	3
741	Potential Role of Gut Microbiota in Induction and Regulation of Innate Immune Memory. 2019 , 10, 2441	88
740	Examination of the Expression of Immunity Genes and Bacterial Profiles in the Caecum of Growing Chickens Infected with Enteritidis and Fed a Probiotic. 2019 , 9,	11
739	Co-Supplementation of Dietary Seaweed Powder and Antibacterial Peptides Improves Broiler Growth Performance and Immune Function. 2019 , 21,	6
738	A mutated rabbit defensin NP-1 produced by <i>Chlorella ellipsoidea</i> can improve the growth performance of broiler chickens. 2019 , 9, 12778	2
737	Antimicrobial peptide ROAD-1 triggers phase change in local membrane environment to execute its activity. 2019 , 25, 281	
736	Extracellular vesicles in host-pathogen interactions and immune regulation - exosomes as emerging actors in the immunological theater of pregnancy. 2019 , 5, e02355	26
735	The Komodo dragon (<i>Varanus komodoensis</i>) genome and identification of innate immunity genes and clusters. 2019 , 20, 684	10
734	Antimicrobial activity of the antibacterial peptide PMAP-36 and its analogues. 2019 , 136, 103712	5
733	Transcriptome Profiles of Strawberry () Fruit Interacting With at Different Ripening Stages. 2019 , 10, 1131	25
732	Magnificamide, a β -Defensin-Like Peptide from the Mucus of the Sea Anemone , Is a Strong Inhibitor of Mammalian α -Amylases. 2019 , 17,	5
731	Pilot GWAS of caries in African-Americans shows genetic heterogeneity. 2019 , 19, 215	4
730	Systematic mutational analysis of human neutrophil β -defensin HNP4. 2019 , 1861, 835-844	4
729	Direct Identification of Pathogens in Urine by Use of a Specific Matrix-Assisted Laser Desorption Ionization-Time of Flight Spectrum Database. 2019 , 57,	10
728	Beyond Pollination: Honey Bees (<i>Apis mellifera</i>) as Zotherapy Keystone Species. 2019 , 6,	6

727	MgrA Governs Adherence, Host Cell Interaction, and Virulence in a Murine Model of Bacteremia Due to <i>Staphylococcus aureus</i> . 2019 , 220, 1019-1028	9
726	Shed Tears for Diagnostics. 2019 ,	1
725	Tear Cocktail: Composition of Tears. 2019 , 21-49	1
724	Cationic antimicrobial peptides and periodontal physiopathology: A systematic review. 2019 , 54, 589-600	14
723	A Novel View of Human Infections: Interplay between Microbiota and Beta-Defensins. 2019 , 9,	30
722	Differentially expressed genes of the shrimp <i>Marsupenaeus japonicus</i> in response to infection by white spot syndrome virus or <i>Vibrio alginolyticus</i> . 2019 , 92, 348-355	3
721	Critical determinants of human neutrophil peptide 1 for enhancing host epithelial adhesion of <i>Shigella flexneri</i> . 2019 , 21, e13069	5
720	<i>Lactobacillus helveticus</i> SBT2171 upregulates the expression of α -defensin and ameliorates periodontal disease caused by <i>Porphyromonas gingivalis</i> . 2019 , 63, 293-302	4
719	Antimicrobial Peptides: Potential Application in Liver Cancer. 2019 , 10, 1257	27
718	Scorpion Venom: New Promise in the Treatment of Cancer. 2019 , 24, 213-223	6
717	Carbohydrate-Dependent and Antimicrobial Peptide Defence Mechanisms Against <i>Helicobacter pylori</i> Infections. 2019 , 421, 179-207	1
716	Design, Synthesis, Antibacterial Potential, and Structural Characterization of N-Acylated Derivatives of the Human Autophagy 16 Polypeptide. 2019 , 30, 1998-2010	6
715	Phenotypic and Genotypic Characteristics of Methicillin-Resistant (MRSA) Related to Persistent Endovascular Infection. 2019 , 8,	6
714	Using Insects as Models of Immunosenescence. 2019 , 177-191	
713	Regulatory Roles of Pectin Oligosaccharides on Immunoglobulin Production in Healthy Mice Mediated by Gut Microbiota. 2019 , 63, e1801363	14
712	The <i>Arabidopsis</i> defensin gene AtPDF2.5 mediates cadmium tolerance and accumulation. 2019 , 42, 2681-2695	25
711	Molecular Mechanisms of Inflammation: Induction, Resolution and Escape by <i>Helicobacter pylori</i> . 2019 ,	2
710	The Continuing Threat of Methicillin-Resistant. 2019 , 8,	106

709	Middle East respiratory syndrome: pathogenesis and therapeutic developments. 2019 , 14, 237-246	18
708	Effects of serovar Enteritidis infection on egg production and the immune response of the laying duck. 2019 , 7, e6359	5
707	The immune system of the freshwater zebra mussel, <i>Dreissena polymorpha</i> , decrypted by proteogenomics of hemocytes and plasma compartments. 2019 , 202, 103366	21
706	Mechanisms of Severe Cutaneous Adverse Reactions: Recent Advances. 2019 , 42, 973-992	33
705	A non-secreted plant defensin AtPDF2.6 conferred cadmium tolerance via its chelation in <i>Arabidopsis</i> . 2019 , 100, 561-569	19
704	Plant defensins: types, mechanism of action and prospects of genetic engineering for enhanced disease resistance in plants. 2019 , 9, 192	27
703	Paneth Cell Physiology and Pathophysiology in Inflammatory Bowel Disease. 2019 , 165-180	
702	Overexpression of Gloverin2 in the <i>Bombyx mori</i> silk gland enhances cocoon/silk antimicrobial activity. 2019 , 98, 6-12	0
701	Cationic Intrinsically Disordered Antimicrobial Peptides (CIDAMPs) Represent a New Paradigm of Innate Defense with a Potential for Novel Anti-Infectives. 2019 , 9, 3331	23
700	<i>Neisseria gonorrhoeae</i> MlaA influences gonococcal virulence and membrane vesicle production. 2019 , 15, e1007385	20
699	The Concept of an Ideal Antibiotic: Implications for Drug Design. 2019 , 24,	158
698	Studying Biofilm and Clinical Issues in Orthopedics. 2019 , 10, 359	8
697	Structure-guided identification of antimicrobial peptides in the spathe transcriptome of the non-model plant, arum lily (<i>Zantedeschia aethiopica</i>). 2019 , 93, 1265-1275	5
696	Thinking Outside the Bug: Molecular Targets and Strategies to Overcome Antibiotic Resistance. 2019 , 20,	40
695	Protective Effects of Protegrin in Dextran Sodium Sulfate-Induced Murine Colitis. 2019 , 10, 156	7
694	Short communication: Inhibition of DNA methyltransferase and histone deacetylase increases defensin expression but not the effects of lipopolysaccharide or 1,25-dihydroxyvitamin D in bovine mammary epithelial cells. 2019 , 102, 5706-5712	6
693	Coinfection Attenuates Murine -Induced Crohn's-Like Ileitis by Preserving the Epithelial Barrier and Downregulating the Inflammatory Response. 2019 , 10, 442	8
692	The gut mucosal barrier of zebrafish (<i>Danio rerio</i>) responds to the time-restricted delivery of <i>Lobosphaera incisa</i> -enriched diets. 2019 , 89, 368-377	4

691	Antimicrobial Host Defence Peptides: Immunomodulatory Functions and Translational Prospects. 2019 , 1117, 149-171	38
690	Systemic Administration of Avian Defensin 7: Distribution, Cellular Target, and Antibacterial Potential in Mice. 2019 , 10, 541	5
689	Human α -Defensin 2 Expression in Oral Epithelium: Potential Therapeutic Targets in Oral Lichen Planus. 2019 , 20,	9
688	Antimicrobial Peptides. 2019 ,	13
687	Necroptosis mediators RIPK3 and MLKL suppress intracellular replication independently of host cell killing. 2019 , 218, 1994-2005	22
686	Digestive System Diseases. 2019 ,	
685	Using Bioactive Glasses in the Management of Burns. 2019 , 7, 62	31
684	Evaluation of anticancer activity of α -Defensins purified from neutrophils trapped in leukoreduction filters. 2019 , 224, 249-254	3
683	Identification and characterization of three novel antimicrobial peptides from <i>Acipenser dabryanus</i> . 2019 , 88, 207-216	17
682	Manipulating Active Structure and Function of Cationic Antimicrobial Peptide CM15 with the Polysulfonated Drug Suramin: A Step Closer to in Vivo Complexity. 2019 , 20, 1578-1590	11
681	Increased gene copy number of worsens sepsis by inducing endothelial pyroptosis. 2019 , 116, 3161-3170	24
680	Skin-Derived SPINK9 Kills <i>Escherichia coli</i> . 2019 , 139, 1135-1142	6
679	Effective delivery of the anti-mycobacterial peptide NZX in mesoporous silica nanoparticles. 2019 , 14, e0212858	37
678	The guardians of the periodontium-sequential and differential expression of antimicrobial peptides during gingival inflammation. Results from in vivo and in vitro studies. 2019 , 46, 276-285	12
677	The cyclic peptide labaditin does not alter the outer membrane integrity of <i>Salmonella enterica</i> serovar Typhimurium. 2019 , 9, 1993	7
676	Defensin-Like Peptides and Their Antimicrobial Activity in Free-Form and Immobilized on Material Surfaces. 2019 ,	1
675	The Ancestral N-Terminal Domain of Big Defensins Drives Bacterially Triggered Assembly into Antimicrobial Nanonets. 2019 , 10,	18
674	Human Enteric Defensin 5 Promotes Infection of Macrophages. 2019 , 88,	11

673	The antimicrobial peptide ZY4 combats multidrug-resistant and infection. 2019 ,	91
672	A Novel Adjuvant "Sublancin" Enhances Immune Response in Specific Pathogen-Free Broiler Chickens Inoculated with Newcastle Disease Vaccine. 2019 , 2019, 1016567	4
671	Antimicrobial peptide identification using multi-scale convolutional network. 2019 , 20, 730	22
670	The plant defensin gene AtPDF2.1 mediates ammonium metabolism by regulating glutamine synthetase activity in <i>Arabidopsis thaliana</i> . 2019 , 19, 557	2
669	gloverin A2 alleviates enterotoxigenic -induced inflammation and intestinal mucosa disruption. 2019 , 8, 189	6
668	Roles of short-chain fatty acids in kidney diseases. 2019 , 132, 1228-1232	14
667	Identification of Candidate Signature Genes and Key Regulators Associated With Trypanotolerance in the Sheko Breed. 2019 , 10, 1095	8
666	Dissecting the Antimicrobial Composition of Honey. 2019 , 8,	53
665	Antiinflammatory peptides: current knowledge and promising prospects. 2019 , 68, 125-145	27
664	Neutrophils in the initiation and resolution of acute pulmonary inflammation: understanding biological function and therapeutic potential. 2019 , 247, 672-685	101
663	Beta defensin 3 enhances ovarian granulosa cell proliferation and migration via ERK1/2 pathway in vitro 2019 , 100, 1057-1065	6
662	Exercise, Immunity, and Illness. 2019 , 317-344	9
661	Neutrophil α defensins promote thrombosis in vivo by altering fibrin formation, structure, and stability. 2019 , 133, 481-493	30
660	A β defensin gene of <i>Trachinotus ovatus</i> might be involved in the antimicrobial and antiviral immune response. 2019 , 92, 105-115	25
659	<i>Klebsiella pneumoniae</i> infection biology: living to counteract host defences. 2019 , 43, 123-144	147
658	14-Helical β Peptides Elicit Toxicity against <i>C. albicans</i> by Forming Pores in the Cell Membrane and Subsequently Disrupting Intracellular Organelles. 2019 , 26, 289-299.e4	11
657	Enhanced antifungal activity of bovine lactoferrin-producing probiotic <i>Lactobacillus casei</i> in the murine model of vulvovaginal candidiasis. 2019 , 19, 7	21
656	β Glucan from <i>Saccharomyces cerevisiae</i> induces SBD-1 production in ovine ruminal epithelial cells via the Dectin-1-Syk-NF- κ B signaling pathway. 2019 , 53, 304-315	5

655	Prevention and detection of prosthetic temporomandibular joint infections-update. 2019 , 48, 217-224	7
654	Defensins: Farming the Microbiome for Homeostasis and Health. 2018 , 9, 3072	70
653	Proteomics of the acid-soluble fraction of whole and major gland saliva in burning mouth syndrome patients. 2019 , 98, 148-155	10
652	The Human Salivary Antimicrobial Peptide Profile according to the Oral Microbiota in Health, Periodontitis and Smoking. 2019 , 11, 432-444	13
651	Parallel evolution of gene classes, but not genes: Evidence from Hawai'ian honeycreeper populations exposed to avian malaria. 2019 , 28, 568-583	13
650	Immunity, immunomodulation, and antibiotic alternatives to maximize the genetic potential of poultry for growth and disease response. 2019 , 250, 41-50	36
649	Stabilized collagen matrix dressing improves wound macrophage function and epithelialization. 2019 , 33, 2144-2155	27
648	Antimicrobial peptides of fish: innocuous alternatives to antibiotics. 2020 , 12, 85-106	19
647	Human Defensin-3 participates in intra-amniotic host defense in women with labor at term, spontaneous preterm labor and intact membranes, and preterm prelabor rupture of membranes. 2020 , 33, 4117-4132	12
646	A Future for a Vaccine Against the Cancer-Inducing Bacterium <i>Helicobacter pylori</i> ?. 2020 , 579-596	
645	A new high-yielding antimicrobial peptide NZX and its antibacterial activity against <i>Staphylococcus hyicus</i> in vitro/vivo. 2020 , 104, 1555-1568	9
644	Development of prime-boost-type next-generation mucosal vaccines. 2020 , 32, 597-603	2
643	Combination of Capillary Zone Electrophoresis-Mass Spectrometry, Ion Mobility-Mass Spectrometry, and Theoretical Calculations for Cysteine Connectivity Identification in Peptides Bearing Two Intramolecular Disulfide Bonds. 2020 , 92, 2425-2434	7
642	Innate Immunity at Mucosal Surfaces. 2020 , 101-116	
641	Chemistry and Enzymology Encoded by the Human Microbiome. 2020 , 261-286	
640	Biologically active marine natural products and their molecular targets discovered using a chemical genetics approach. 2020 , 37, 617-633	14
639	Structure-Activity relationship of cationic surfactants as antimicrobial agents. 2020 , 45, 28-43	50
638	Scorpion venomomics: a 2019 overview. 2020 , 17, 67-83	12

637	Effects of antimicrobial peptides on the growth performance, antioxidant and intestinal function in juvenile largemouth bass, <i>Micropterus salmoides</i> . 2020 , 16, 100252	7
636	Self-Assembled Polyurethane Capsules with Selective Antimicrobial Activity against Gram-Negative. 2020 , 6, 654-663	12
635	Gingival tissue human beta-defensin levels in relation to infection and inflammation. 2020 , 47, 309-318	10
634	Defensins: Transcriptional regulation and function beyond antimicrobial activity. 2020 , 104, 103556	16
633	Increase in cytotoxic lignans production after smut infection in sugar cane plants. 2020 , 244, 153087	5
632	Therapeutic administration of the recombinant antimicrobial peptide microcin J25 effectively enhances host defenses against gut inflammation and epithelial barrier injury induced by enterotoxigenic <i>Escherichia coli</i> infection. 2020 , 34, 1018-1037	21
631	Expression and Function of Host Defense Peptides at Inflammation Sites. 2019 , 21,	41
630	Transcriptome Analysis Identifies Candidate Genes and Functional Pathways Controlling the Response of Two Contrasting Barley Varieties to Powdery Mildew Infection. 2019 , 21,	9
629	Relationship Between Human β -Defensin 2 and the Vaginal Environment. 2020 , 73, 214-220	2
628	The Principles, Mechanisms, and Benefits of Unconventional Agents in the Treatment of Biofilm Infection. 2020 , 13,	9
627	Antimicrobial Peptide Engineering: Rational Design, Synthesis, and Synergistic Effect. 2020 , 46, 463-479	2
626	Chicken avian β -defensin 8 modulates immune response via the mitogen-activated protein kinase signaling pathways in a chicken macrophage cell line. 2020 , 99, 4174-4182	6
625	Multiple pathophysiological roles of midkine in human disease. 2020 , 135, 155242	7
624	Role of Alarmins in the Pathogenesis of Systemic Sclerosis. 2020 , 21,	4
623	Recent advances: peptides and self-assembled peptide-nanosystems for antimicrobial therapy and diagnosis. 2020 , 8, 4975-4996	34
622	A Review on the Use of Antimicrobial Peptides to Combat Porcine Viruses. 2020 , 9,	5
621	Antibacterial and antioomycete activities of a novel designed RY12WY peptide against fish pathogens. 2020 , 149, 104591	1
620	Magnesium Sensing Regulates Intestinal Colonization of Enterohemorrhagic <i>Escherichia coli</i> O157:H7. 2020 , 11,	9

619	Clinical Significance of Manuka and Medical-Grade Honey for Antibiotic-Resistant Infections: A Systematic Review. 2020 , 9,	12
618	Oral antimicrobial peptides and new therapeutic strategies for plaque-mediated diseases. 2020 , 21, 100811	5
617	Antimicrobial efficacy of Cecropin A (1-7)- Melittin and Lactoferricin (17-30) against multi-drug resistant Salmonella Enteritidis. 2020 , 147, 104405	3
616	Recombinant expression, purification and PEGylation of Paneth cell peptide (cryptdin-2) with value added attributes against Staphylococcus aureus. 2020 , 10, 12164	8
615	Innate Immune Defense Mechanisms by Myeloid Cells That Hamper Cancer Immunotherapy. 2020 , 11, 1395	6
614	Functional Reciprocity of Amyloids and Antimicrobial Peptides: Rethinking the Role of Supramolecular Assembly in Host Defense, Immune Activation, and Inflammation. 2020 , 11, 1629	14
613	De novo supraparticle construction by a self-assembled Janus cyclopeptide to tame hydrophilic microRNA and hydrophobic molecule for anti-tumor cocktail therapy and augmented immunity. 2020 , 401, 126080	8
612	Structural, functional and phylogenetic analysis of a beta defensin gene from the Whipfin silverbiddy, <i>Gerres filamentosus</i> (Cuvier, 1829). 2020 , 21, 100805	4
611	LC-Trapped Ion Mobility Spectrometry-TOF MS Differentiation of 2- and 3-Disulfide-Bonded Isomers of the Conotoxin PIIIA. 2020 , 92, 10920-10924	4
610	Host Factors of Favorable Intestinal Microbial Colonization. 2020 , 11, 584288	7
609	Use of a model to understand the synergies underlying the antibacterial mechanism of HO-producing honeys. 2020 , 10, 17692	7
608	Yogurt Produced by Novel Natural Starter Cultures Improves Gut Epithelial Barrier In Vitro. 2020 , 8,	11
607	Physical Mechanisms of Bacterial Killing by Histones. 2020 , 1267, 117-133	4
606	Combating Implant Infections: Shifting Focus from Bacteria to Host. 2020 , 32, e2002962	46
605	A profile on the Synovasure alpha defensin test for the detection of periprosthetic infections. 2020 , 20, 895-904	0
604	In silico identification and expression analyses of Defensin genes in the mealworm beetle <i>Tenebrio molitor</i> . 2020 , 50, 575-585	5
603	Cooperative Function of LL-37 and HNP1 Protects Mammalian Cell Membranes from Lysis. 2020 , 119, 2440-2450	4
602	WITHDRAWN: Novel long-acting BF-30 conjugate corrects pancreatic carcinoma via cytoplasmic membrane permeabilization and DNA-binding in tumor-bearing mice. 2020 , 118278	

601	A Potential Bioelectromagnetic Method to Slow Down the Progression and Prevent the Development of Ultimate Pulmonary Fibrosis by COVID-19. 2020 , 11, 556335	
600	An Alphaherpesvirus Exploits Antimicrobial Defensins To Initiate Respiratory Tract Infection. 2020 , 94,	6
599	Functional Insights From the Evolutionary Diversification of Big Defensins. 2020 , 11, 758	13
598	Dysregulated Mucosal Immunity and Associated Pathogenesises in Preterm Neonates. 2020 , 11, 899	13
597	Conjugated microporous polymers bearing isocyanurate moiety as efficient antibacterial membrane and aerogels. 2020 , 248, 117020	15
596	Crossbreeding analyses and polymorphic associations of gallinacin genes with growth traits in chickens. 2020 , 240, 104118	2
595	Antibiotics: A Bibliometric Analysis of Top 100 Classics. 2020 , 9,	12
594	Defensins: A Double-Edged Sword in Host Immunity. 2020 , 11, 764	45
593	Immunomodulatory effects of avian Defensin 5 in chicken macrophage cell line. 2020 , 132, 81-87	6
592	Identification and characterization of urinary peptides using Q-TOF mass spectrometry in cow. 2020 , 11, 167-172	
591	An amphipathic peptide with antibiotic activity against multidrug-resistant Gram-negative bacteria. 2020 , 11, 3184	50
590	Runaway multi-allelic copy number variation at the Defensin locus in African and Asian populations. 2020 , 10, 9101	1
589	Utilizing Organoid and Air-Liquid Interface Models as a Screening Method in the Development of New Host Defense Peptides. 2020 , 10, 228	15
588	Fragmentation of Human Neutrophil Defensin 4 to Combat Multidrug Resistant Bacteria. 2020 , 11, 1147	6
587	Neutrophil extracellular trap inhibition increases inflammation, bacteraemia and mortality in murine necrotizing enterocolitis. 2021 , 25, 10814-10824	4
586	Does an Apple a Day Also Keep the Microbes Away? The Interplay Between Diet, Microbiota, and Host Defense Peptides at the Intestinal Mucosal Barrier. 2020 , 11, 1164	9
585	A Synthetic Cell-Penetrating Heparin-Binding Peptide Derived from BMP4 with Anti-Inflammatory and Chondrogenic Functions for the Treatment of Arthritis. 2020 , 21,	3
584	Therapeutic utility of the antimicrobial peptide Tilapia Piscidin 4 (TP4). 2020 , 17, 100409	9

583	Rational Substitution of α -Lysine for β -Lysine Enhances the Cell and Membrane Selectivity of Pore-Forming Melittin. 2020 , 63, 3522-3537	14
582	Influence of disulfide bonds in human beta defensin-3 on its strain specific activity against Gram-negative bacteria. 2020 , 1862, 183273	7
581	CRiSP: accurate structure prediction of disulfide-rich peptides with cystine-specific sequence alignment and machine learning. 2020 , 36, 3385-3392	1
580	Characterization, Expression Profiling, and Functional Analysis of , a Defensin-Encoding Gene From. 2020 , 11, 106	5
579	Antimicrobial Activity of the Antibacterial Peptide PMAP-GI24 and Its Analogs. 2020 , 26, 2317-2331	2
578	Electrospun nanofibers in wound healing. 2020 , 29, 1-6	14
577	An IL-17F.S65L Knock-In Mouse Reveals Similarities and Differences in IL-17F Function in Oral Candidiasis: A New Tool to Understand IL-17F. 2020 , 205, 720-730	5
576	Nuclear-Targeting Delivery of CRISPRa System for Upregulation of β -Defensin against Virus Infection by Dexamethasone and Phenylalanine Dual-Modified Dendrimer. 2020 , 2020, 1-13	1
575	Breaking or following the membrane-targeting mechanism: Exploring the antibacterial mechanism of host defense peptide mimicking poly(2-oxazoline)s. 2020 , 59, 220-226	11
574	Enhancing of anthracnose disease resistance indicates a potential role of antimicrobial peptide genes in cassava. 2020 , 148, 135-148	1
573	Murine cathelicidin: as a host defensive response against infection. 2020 , 44, 633-638	6
572	Evaluation of the Antibacterial Material Production in the Fermentation of from Whitespotted Bamboo Shark (). 2020 , 18,	6
571	Antimicrobial host defence peptides: functions and clinical potential. 2020 , 19, 311-332	325
570	Targeting Pathogenic Biofilms: Newly Developed Superhydrophobic Coating Favors a Host-Compatible Microbial Profile on the Titanium Surface. 2020 , 12, 10118-10129	34
569	Maternal stress, low cervicovaginal β -defensin, and spontaneous preterm birth. 2020 , 2, 100092	6
568	Hypoimmunity and intestinal bacterial imbalance are closely associated with blue body syndrome in cultured <i>Penaeus vannamei</i> . 2020 , 522, 735118	5
567	The Role of Th17-Related Cytokines in Atopic Dermatitis. 2020 , 21,	40
566	Transcriptome analysis identifies immune-related genes and antimicrobial peptides in Siamese fighting fish (<i>Betta splendens</i>). 2020 , 99, 403-413	14

565	Tryptophan promoted α -Defensin-2 expression the mTOR pathway and its metabolites: kynurenine banding to aryl hydrocarbon receptor in rat intestine.. 2020 , 10, 3371-3379	6
564	The Antifungal Peptide MCh-AMP1 Derived From Inhibits Growth via Inducing ROS Generation and Altering Fungal Cell Membrane Permeability. 2019 , 10, 3150	20
563	Administration Modulates Cytokine Expression and Lymphocyte Subpopulation Levels in Broiler Chickens Challenged with. 2020 , 17, 485-493	7
562	Respiratory Virus Co-infection in Acute Respiratory Infections in Children. 2020 , 22, 3	16
561	High-Performance Liquid Chromatography as a Novel Method for the Determination of α -Defensins in Synovial Fluid for Diagnosis of Orthopedic Infections. 2020 , 10,	4
560	Photodynamic treatment with cationic Ir(III) complexes induces a synergistic antimicrobial effect with imipenem over carbapenem-resistant <i>Klebsiella pneumoniae</i> . 2020 , 30, 101662	6
559	Hypoxia and Innate Immunity: Keeping Up with the HIFsters. 2020 , 38, 341-363	41
558	The Inflammation Superhighway. 2020 , 131-150	1
557	Albumin-Mediated Delivery of Bioactive Peptides for Pancreatic Cancer Therapy. 2020 , 3, 2000003	0
556	Saliva in Health and Disease. 2020 ,	2
555	The human α -Defensin-derived peptide HD5(1-9) inhibits cellular attachment and entry of human cytomegalovirus. 2020 , 177, 104779	4
554	Effects of lysine and methionine in a low crude protein diet on the growth performance and gene expression of immunity genes in broilers. 2020 , 99, 2916-2925	7
553	The Paneth Cell: The Curator and Defender of the Immature Small Intestine. 2020 , 11, 587	44
552	Neuropeptides in gut-brain axis and their influence on host immunity and stress. 2020 , 18, 843-851	22
551	Human Defensins: A Novel Approach in the Fight against Skin Colonizing a. 2020 , 9,	24
550	Hitchhiking with Nature: Snake Venom Peptides to Fight Cancer and Superbugs. 2020 , 12,	15
549	Effects of oral administration of colostrum whey in peripartum goat on antimicrobial peptides in postpartum milk. 2020 , 91, e13365	6
548	<i>Mycoplasma hyopneumoniae</i> Inhibits Porcine Beta-Defensin 2 Production by Blocking the Unfolded Protein Response To Facilitate Epithelial Adhesion and Infection. 2020 , 88,	3

547	Lack of Acute Toxicity and Mutagenicity from Recombinant Piscidin Expressed in. 2020 , 18,	0
546	Out-Smartering the Host: Bacteria Maneuvering the Immune Response to Favor Their Survival. 2020 , 11, 819	5
545	Molecular associations of gallinacin genes with immune response against Salmonella typhimurium in chickens. 2021 , 244, 104315	
544	Comparison of gingival crevicular fluid and serum human beta-defensin-2 levels between periodontal health and disease. 2021 , 27, 993-1000	2
543	Synthetic Polypeptide Polymers as Simplified Analogues of Antimicrobial Peptides. 2021 , 22, 57-75	28
542	De novo assembly and functional annotation of the Red-striped golden stink bug (<i>Poeciloricis lewisi</i>) transcriptome. 2021 , 767, 145188	1
541	Effect of Secondary Structure and Side Chain Length of Hydrophobic Amino Acid Residues on the Antimicrobial Activity and Toxicity of 14-Residue-Long de novo AMPs. 2021 , 16, 355-367	11
540	Effects of Supplemental Calcium and Vitamin D on Circulating Biomarkers of Gut Barrier Function in Patients with Colon Adenoma: A Randomized Clinical Trial. 2021 , 14, 393-402	
539	Pore-forming proteins: From defense factors to endogenous executors of cell death. 2021 , 234, 105026	7
538	Recombinant expression of the precursor of rat lung surfactant protein B in <i>Escherichia coli</i> and its antibacterial mechanism. 2021 , 179, 105801	2
537	Influence of habitat change from land to sea on the evolution of antimicrobial peptide gene families, including α -defensin gene clusters, in mammals. 2021 , 59, 510-521	1
536	Transcriptomic analysis of equine placenta reveals key regulators and pathways involved in ascending placentitis. 2021 , 104, 638-656	3
535	Reptilian α -defensins: Expanding the repertoire of known crocodylian peptides. 2021 , 136, 170473	3
534	Molecular and functional identification of a α -defensin homolog in large yellow croaker (<i>Larimichthys crocea</i>). 2021 , 44, 391-400	8
533	The antibacterial activities of honey. 2021 , 28, 2188-2196	19
532	Association between genetic polymorphisms in the promoter region of the defensin beta 1 gene and persistent apical periodontitis. 2021 , 54, 38-45	3
531	Enterotoxigenic infection promotes enteric defensin expression via FOXO6-METTL3-mA-GPR161 signalling axis. 2021 , 18, 576-586	6
530	Cysteine-rich antimicrobial peptides from plants: The future of antimicrobial therapy. 2021 , 35, 256-277	12

529	Endocrine control of mucosal immunity in the human female reproductive tract: Bridging implantation with pathogen protection. 2021 , 171-206	1
528	Antimicrobial compounds to improve foods' shelf life. 2021 , 461-482	2
527	Mechanisms of toxicity mediated by neutrophil and eosinophil granule proteins. 2021 , 70, 30-38	13
526	Declined expressing mRNA of beta-defensin 108 from epididymis is associated with decreased sperm motility in blue fox (<i>Vulpes lagopus</i>). 2021 , 17, 12	2
525	Reduced Expression of Antimicrobial Protein Secretory Leukoprotease Inhibitor and Clusterin in Chronic Rhinosinusitis with Nasal Polyps. 2021 , 2021, 1057186	1
524	Anatomy and Physiology of the Small and Large Intestines. 2021 , 308-320.e3	0
523	Outer membrane permeabilization by the membrane attack complex sensitizes Gram-negative bacteria to antimicrobial proteins in serum and phagocytes. 2021 , 17, e1009227	6
522	Isolation, Identification, and Bioinformatic Analysis of Antibacterial Proteins and Peptides from Immunized Hemolymph of Red Palm Weevil. 2021 , 11,	2
521	Nanodefensin-encased hydrogel with dual bactericidal and pro-regenerative functions for advanced wound therapy. 2021 , 11, 3642-3660	9
520	Structure-Based Modeling of Complement C4 Mediated Neutralization of Adenovirus. 2021 , 13,	1
519	_PROGNOSTIC MARKER OF TUBERCULOSIS SEVERITY AND TREATMENT EFFECTIVENESS IN PULMONARY TUBERCULOSIS. 2021 , 74, 1839-1843	
518	Molecular engineering of antimicrobial peptides: microbial targets, peptide motifs and translation opportunities. 2021 , 13, 1-35	18
517	Clinical Approach to Regenerative Endodontics. 2021 , 63-88	
516	Association of salivary physicochemical characteristics and peptide levels with dental caries in children. 2021 , 39, 189-195	1
515	Insights into antimicrobial peptides in fighting anthrax: A review. 2021 , 82, 754-766	0
514	Antimicrobial Properties of the Ag, Cu Nanoparticle System. 2021 , 10,	18
513	Medicago Sativa Defensin 1 (MsDef1), A Natural Tumor Targeted Sensitizer for Improving Chemotherapy: Translation from Anti-Fungal Agent to Potential Anti-Cancer Agent.	0
512	The inhibitory effect of human DEFA5 in growth of gastric cancer by targeting BMI1. 2021 , 112, 1075-1083	7

511	A recombinant fungal defensin-like peptide-P2 combats <i>Streptococcus dysgalactiae</i> and biofilms. 2021 , 105, 1489-1504	2
510	AP-64, Encoded by , Exhibits Antimicrobial Activity against Gram-Negative Bacteria. 2021 , 11,	2
509	Nanoplatfoms for Sepsis Management: Rapid Detection/Warning, Pathogen Elimination and Restoring Immune Homeostasis. 2021 , 13, 88	2
508	Diagnostic Accuracy of the Synovial Fluid β -Defensin Lateral Flow Test in Periprosthetic Joint Infection: A Meta-analysis. 2021 , 13, 708-718	2
507	Maintaining homeostatic control of periodontal epithelial tissue. 2021 , 86, 188-200	6
506	Recent advances in design of antimicrobial peptides and polypeptides toward clinical translation. 2021 , 170, 261-280	37
505	The multifaceted roles of antimicrobial peptides in oral diseases. 2021 , 36, 159-171	9
504	Serum and Synovial Biomarkers for the Diagnosis of Implant-Associated Infection After Orthopedic Surgery. 2021 , 44, e158-e166	1
503	Antimicrobial Peptides as Potential Anti-Tubercular Leads: A Concise Review. 2021 , 14,	1
502	Human beta-defensin-1 rs2738047 polymorphism is associated with shisha smoking risk among Saudi population. 2021 , 28, 42916-42933	1
501	Vitamin D deficiency in children with acute bronchiolitis: a prospective cross-sectional case- control study. 2021 , 21, 211	0
500	Increased Gene Copy Number of DEFA1A3 Is Associated With the Severity of Ulcerative Colitis. 2021 , 12, e00331	0
499	Engineered synthetic cell penetrating peptide with intracellular anti-inflammatory bioactivity: An in vitro and in vivo study. 2021 , 109, 2001-2016	1
498	Neutrophil extracellular trap-associated molecules: a review on their immunophysiological and inflammatory roles. 2021 , 1-22	1
497	SARS-CoV-2 inactivation by human defensin HNP1 and retrocyclin RC-101.	1
496	The Potential Role of the Intestinal Micromilieu and Individual Microbes in the Immunobiology of Chimeric Antigen Receptor T-Cell Therapy. 2021 , 12, 670286	5
495	The Effect of the Antimicrobial Peptide Plectasin on the Growth Performance, Intestinal Health, and Immune Function of Yellow-Feathered Chickens. 2021 , 8, 688611	4
494	Probiotics, Prebiotics, Synbiotics and Dental Caries. New Perspectives, Suggestions, and Patient Coaching Approach for a Cavity-Free Mouth. 2021 , 11, 5472	2

493	Human Defensins Inhibit SARS-CoV-2 Infection by Blocking Viral Entry. 2021 , 13,	7
492	Delivery by Dendritic Mesoporous Silica Nanoparticles Enhances the Antimicrobial Activity of a Napsin-Derived Peptide Against Intracellular Mycobacterium tuberculosis. 2021 , 10, e2100453	5
491	The alteration of gut microbiota by bioactive peptides: a review. 2021 , 1, 363-377	1
490	Modulation of cathelicidin and defensins by histone deacetylase inhibitors: A potential treatment for multi-drug resistant infectious diseases. 2021 , 140, 170527	6
489	In vitro inhibition of H. pylori in a preferential manner using bioengineered L. lactis releasing guided Antimicrobial peptides.	1
488	Phagosome-Bacteria Interactions from the Bottom Up. 2021 , 12, 309-331	3
487	Antimicrobial Peptides: Identification of two Beta-Defensins in a Teleost Fish, the European Sea Bass (). 2021 , 14,	3
486	Alkyl-Aryl-Vancomycins: Multimodal Glycopeptides with Weak Dependence on the Bacterial Metabolic State. 2021 , 64, 10185-10202	3
485	Iron metabolism in infections: Focus on COVID-19. 2021 , 58, 182-187	9
484	Development and Evaluation of a Droplet Digital PCR Assay for 8p23 #Defensin Cluster Copy Number Determination. 2021 , 25, 607-615	0
483	Gastric Microenvironment-A Partnership between Innate Immunity and Gastric Microbiota Tricks. 2021 , 10,	4
482	K Locus Effects in Gray Wolves: Experimental Assessment of TLR3 Signaling and the Gene Expression Response to Canine Distemper Virus. 2021 , 112, 458-468	2
481	Transcriptomic analysis of equine chorioallantois reveals immune networks and molecular mechanisms involved in nocardioform placentitis. 2021 , 52, 103	2
480	The Role of Antimicrobial Peptides in Preterm Birth. 2021 , 22,	0
479	Characterization of antibacterial activities and the related mechanisms of a #Defensin in turbot (Scophthalmus maximus). 2021 , 541, 736839	3
478	Development of novel synthetic method of natural antimicrobial peptide TP4. 2021 , 79, 153299	0
477	Measuring thousands of single vesicle leakage events reveals the mode of action of antimicrobial peptides.	1
476	The Anti-Biofilm Efficacy of Caffeic Acid Phenethyl Ester (CAPE) and a Murine Model of Oral Candidiasis. 2021 , 11, 700305	5

475	Preclinical Safety Evaluation of a Recombinant Plasmid Vector Encoding Mature Human Neutrophil Peptide-1 by Repeated Local Administrations in Nonhuman Primates. 2021 , 32, 1382-1389	1
474	Unraveling enterohemorrhagic infection: the promising role of dietary compounds and probiotics in bacterial elimination and host innate immunity boosting. 2021 , 1-13	0
473	Nuclear Translocation of Vitellogenin in the Honey Bee (<i>Apis mellifera</i>).	0
472	Marine Transcriptomics Analysis for the Identification of New Antimicrobial Peptides. 2021 , 19,	1
471	Hollow porous organic polymers spheres decorated with silver nanoparticles for sterilization and oil/water separation. 2021 , 324, 111307	3
470	Analysis of a gene family for PDF-like peptides from <i>Arabidopsis</i> . 2021 , 11, 18948	
469	Inhibition of SARS-CoV-2 Infection by Human Defensin HNP1 and Retrocyclin RC-101. 2021 , 167225	2
468	Microbiota and Colorectal Cancer: From Gut to Bedside. 2021 , 12, 760280	2
467	A novel NK-lysin in hybrid crucian carp can exhibit cytotoxic activity in fish cells and confer protection against <i>Aeromonas hydrophila</i> infection in comparison with <i>Carassius cuvieri</i> and <i>Carassius auratus</i> red var. 2021 , 116, 1-11	5
466	Chemical modifications to increase the therapeutic potential of antimicrobial peptides. 2021 , 146, 170666	4
465	Antimicrobial peptides - Unleashing their therapeutic potential using nanotechnology. 2021 , 107990	12
464	Recent Advances in the Discovery and Function of Antimicrobial Molecules in Platelets. 2021 , 22,	3
463	The immunomodulatory function of the porcine α -defensin 129: Alleviate inflammatory response induced by LPS in IPEC-J2 cells. 2021 , 188, 473-481	2
462	Binding free energy calculation of human beta defensin 3 with negatively charged lipid bilayer using free energy perturbation method. 2021 , 277, 106662	1
461	New short cationic antibacterial peptides. Synthesis, biological activity and mechanism of action. 2021 , 1863, 183665	2
460	Diversity of insect antimicrobial peptides and proteins - A functional perspective: A review. 2021 , 191, 277-287	8
459	Recombinant production of Trx-Ib-AMP4 and Trx-E50-52 antimicrobial peptides and antimicrobial synergistic assessment on the treatment of methicillin-resistant <i>Staphylococcus aureus</i> under in vitro and in vivo situations. 2021 , 188, 105949	1
458	Interactions Between Ticks and Lyme Disease Spirochetes. 2021 , 42, 113-144	6

457	Antimicrobial Peptides of the Respiratory Tract. 2022 , 416-420	
456	Role of Metabolic Endotoxemia in Systemic Inflammation and Potential Interventions. 2020 , 11, 594150	57
455	A Bioelectromagnetic Proposal Approaching the Complex Challenges of COVID-19. 2021 , 11, 1-67	1
454	The Role of Endogenous Antimicrobial Peptides in Modulating Innate Immunity of the Ocular Surface in Dry Eye Diseases. 2021 , 22,	2
453	Neutrophil-derived granule cargoes: paving the way for tumor growth and progression. 2021 , 40, 221-244	6
452	Pulling the Brakes on Fast and Furious Multiple Drug-Resistant (MDR) Bacteria. 2021 , 22,	8
451	Innate Immune Defense System of the Skin. 33-41	1
450	Paneth cell alpha-defensin synthesis and function. 2006 , 306, 1-25	64
449	Gut Immunity and Inflammatory Bowel Disease. 2013 , 13-23	1
448	Evaluation of the bactericidal activity of galectins. 2015 , 1207, 421-30	10
447	Vitamin D and the Innate Immunity. 2010 , 297-310	2
446	Antimicrobial Peptides and Inflammatory Bowel Disease. 2013 , 255-273	1
445	Wound Repair and Antimicrobial Peptides. 2013 , 123-139	1
444	Malassezia. 2010 , 209-230	5
443	An SVM Model Based on Physicochemical Properties to Predict Antimicrobial Activity from Protein Sequences with Cysteine Knot Motifs. 2010 , 59-62	17
442	Use of Genomic Information to Gain Insights into Immune Function in Marsupials: A Review of Divergent Immune Genes. 2010 , 381-400	4
441	Viperidins, Snake Venom Cathelicidin-Related Peptides, in the Milieu of Reptilian Antimicrobial Polypeptides. 2017 , 297-325	1
440	Transcriptome profiling and digital gene expression analysis of the skin of Dybowski's frog (<i>Rana dybowskii</i>) exposed to <i>Aeromonas hydrophila</i> . 2017 , 101, 5799-5808	4

439	Dopaminergic Regulation of Innate Immunity: a Review. 2017 , 12, 602-623	69
438	Neutrophils Role in Innate Immunity. 2016 , 281-288	1
437	Innate (General or Nonspecific) Host Defense Mechanisms. 2010 , 37-47	1
436	Cationic Antimicrobial PeptidesThe Defensins. 2006 , 55-66	3
435	Role of Epithelium in Mucosal Immunity. 2005 , 423-434	3
434	THE IMMUNE SYSTEM AND THE INFLAMMATORY RESPONSE. 2005 , 19-63	1
433	Innate Immunity and Epithelial Biology: Special Considerations in the Neonatal Gut. 2008 , 51-72	2
432	Innate Immunity in the Lungs. 2010 , 255-284	1
431	Innate (General or Nonspecific) Host Defense Mechanisms. 2015 , 26-33.e2	2
430	Rat recombinant α -defensin 22 is a heparin-binding protein with antimicrobial activity. 2011 , 13, 305-11	12
429	Immune modulation of liver sinusoidal endothelial cells by melittin nanoparticles suppresses liver metastasis. 2019 , 10, 574	53
428	Immunity in the female sheep reproductive tract. 2006 , 37, 295-309	27
427	No evidence of expression of two classes of natural antibiotics (cathelicidins and defensins) in a sample of platypus milk. 2009 , 57, 211	5
426	Marsupial and monotreme cathelicidins display antimicrobial activity, including against methicillin-resistant <i>Staphylococcus aureus</i> . 2017 , 163, 1457-1465	8
425	A loss-of-function mutation in IL-17F enhances susceptibility of mice to oropharyngeal candidiasis.	1
424	14-helical α -peptides Elicit Toxicity against <i>C. albicans</i> by Forming Pores in the Cell Membrane and Subsequently Disrupting Intracellular Organelles.	1
423	Antimicrobial Peptides as Mucosal Adjuvants. 2007 , 281-295	3
422	Dual role of alpha-defensin-1 in anti-HIV-1 innate immunity. 2005 , 115, 765-73	92

421	Dual role of β -defensin-1 in anti-HIV-1 innate immunity. 2005 , 115, 765-773	171
420	Neutrophil-mediated innate immune resistance to mycobacteria. 2007 , 117, 1988-94	275
419	Psychological stress downregulates epidermal antimicrobial peptide expression and increases severity of cutaneous infections in mice. 2007 , 117, 3339-49	165
418	Intercalated cells defend the urinary system from bacterial infection. 2014 , 124, 2963-76	92
417	Oxygen metabolism and barrier regulation in the intestinal mucosa. 2016 , 126, 3680-3688	63
416	IL-26 contributes to host defense against intracellular bacteria. 2019 , 129, 1926-1939	27
415	The significance of β -defensins 1-3 in Behçet's disease: a case-control study among Egyptian patients. 2020 , 47,	1
414	Overview of Immunity. 2008 , 1-28	1
413	Antimicrobial Peptides. 2009 , 357-401	2
412	Wound Healing Immunology and Biofilms. 2010 , 271-292	12
411	Antimicrobial Peptides of the Innate Immune System. 2009 , 241-275	8
410	Probiotics and Intestinal Defensins. 2011 , 61-74	2
409	Changes in pro-inflammatory cytokines and antimicrobial proteins in elderly women with iron deficiency anemia. 2019 , 35, 298-301	6
408	Effective Design of Multifunctional Peptides by Combining Compatible Functions. 2016 , 12, e1004786	22
407	Beta-defensin-2 protein is a serum biomarker for disease activity in psoriasis and reaches biologically relevant concentrations in lesional skin. 2009 , 4, e4725	124
406	Increased alpha-defensins 1-3 production by dendritic cells in HIV-infected individuals is associated with slower disease progression. 2010 , 5, e9436	34
405	Sphingosine kinase-1 is required for toll mediated beta-defensin 2 induction in human oral keratinocytes. 2010 , 5, e11512	8
404	Antibacterial and antiviral roles of a fish β -defensin expressed both in pituitary and testis. 2010 , 5, e12883	80

403	Determination of beta-defensin genomic copy number in different populations: a comparison of three methods. 2011 , 6, e16768	37
402	Anti-bacterial effects of poly-N-acetyl-glucosamine nanofibers in cutaneous wound healing: requirement for Akt1. 2011 , 6, e18996	21
401	Butyrate enhances disease resistance of chickens by inducing antimicrobial host defense peptide gene expression. 2011 , 6, e27225	143
400	Detecting the immune system response of a 500 year-old Inca mummy. 2012 , 7, e41244	46
399	Structural insights into the dual strategy of recognition by peptidoglycan recognition protein, PGRP-S: structure of the ternary complex of PGRP-S with lipopolysaccharide and stearic acid. 2013 , 8, e53756	10
398	Cellular catabolism of the iron-regulatory peptide hormone hepcidin. 2013 , 8, e58934	39
397	An intrinsically disordered region of the adenovirus capsid is implicated in neutralization by human alpha defensin 5. 2013 , 8, e61571	38
396	Outer membrane permeabilization is an essential step in the killing of gram-negative bacteria by the lectin RegIII β . 2013 , 8, e69901	31
395	Single, double and quadruple alanine substitutions at oligomeric interfaces identify hydrophobicity as the key determinant of human neutrophil alpha defensin HNP1 function. 2013 , 8, e78937	20
394	A low gastric pH mouse model to evaluate live attenuated bacterial vaccines. 2014 , 9, e87411	14
393	Bovicin HJ50-like lantibiotics, a novel subgroup of lantibiotics featured by an indispensable disulfide bridge. 2014 , 9, e97121	20
392	Molecular evolution of the primate β -defensin multigene family. 2014 , 9, e97425	7
391	N-terminus three residues deletion mutant of human beta-defensin 3 with remarkably enhanced salt-resistance. 2015 , 10, e0117913	5
390	Human β -defensin 4 with non-native disulfide bridges exhibit antimicrobial activity. 2015 , 10, e0119525	22
389	Expression and new exon mutations of the human Beta defensins and their association on colon cancer development. 2015 , 10, e0126868	18
388	Oviduct-specific expression of human neutrophil defensin 4 in lentivirally generated transgenic chickens. 2015 , 10, e0127922	19
387	Release of Periplasmic Nucleotidase Induced by Human Antimicrobial Peptide in E. coli Causes Accumulation of the Immunomodulator Adenosine. 2015 , 10, e0138033	2
386	Bovine CCL28 Mediates Chemotaxis via CCR10 and Demonstrates Direct Antimicrobial Activity against Mastitis Causing Bacteria. 2015 , 10, e0138084	6

385	Expression of Beta-Defensin 131 Promotes an Innate Immune Response in Human Prostate Epithelial Cells. 2015 , 10, e0144776	12
384	The Effect of Lactobacillus casei 32G on the Mouse Cecum Microbiota and Innate Immune Response Is Dose and Time Dependent. 2015 , 10, e0145784	19
383	The Impact of Lactobacillus casei on the Composition of the Cecal Microbiota and Innate Immune System Is Strain Specific. 2016 , 11, e0156374	21
382	Cloning and Expression of β -Defensin from Soiny Mullet (<i>Liza haematocheila</i>), with Insights of its Antibacterial Mechanism. 2016 , 11, e0157544	14
381	Cinobufagin Modulates Human Innate Immune Responses and Triggers Antibacterial Activity. 2016 , 11, e0160734	10
380	Towards Development of Small Molecule Lipid II Inhibitors as Novel Antibiotics. 2016 , 11, e0164515	7
379	Microarray analysis of embryo-derived bovine pluripotent cells: The vulnerable state of bovine embryonic stem cells. 2017 , 12, e0173278	3
378	Estradiol alters the immune-responsiveness of cervical epithelial cells stimulated with ligands of Toll-like receptors 2 and 4. 2017 , 12, e0173646	7
377	Variations in the interaction of human defensins with <i>Escherichia coli</i> : Possible implications in bacterial killing. 2017 , 12, e0175858	19
376	Effects of <i>Eimeria tenella</i> infection on chicken caecal microbiome diversity, exploring variation associated with severity of pathology. 2017 , 12, e0184890	57
375	Nod-like receptors: cytosolic watchdogs for immunity against pathogens. 2007 , 3, e152	44
374	Effect of <i>Artemisia apiacea</i> Hance on growth performance, cecal opportunistic bacteria, and microbicidal peptides in rabbits. 48,	5
373	Pleiotropic Anti-Infective Effects of Defensin-Derived Antimicrobial Compounds. 2018 , 62, 381-387	1
372	Identification of a novel lytic peptide for the treatment of solid tumours. 2014 , 5, 186-200	15
371	Human beta-defensin 3 contributes to the carcinogenesis of cervical cancer via activation of NF- κ B signaling. 2016 , 7, 75902-75913	20
370	Alpha-ketoglutarate (AKG) lowers body weight and affects intestinal innate immunity through influencing intestinal microbiota. 2017 , 8, 38184-38192	20
369	Np63 isoform-mediated β -defensin family up-regulation is associated with (lymph)angiogenesis and poor prognosis in patients with squamous cell carcinoma. 2014 , 5, 1856-68	19
368	Overexpression of human β -defensin 2 promotes growth and invasion during esophageal carcinogenesis. 2014 , 5, 11333-44	23

367	The Effect of Manuka Honey on dHL-60 Cytokine, Chemokine, and Matrix-Degrading Enzyme Release under Inflammatory Conditions. 2019 , 4,	6
366	Effects of Probiotics on the Expression and Localization of Avian α -defensins in the Proventriculus of Broiler Chicks. 2015 , 52, 57-67	7
365	Effects of Toll-like Receptor Ligands on the Expression of Proinflammatory Cytokines and Avian α -defensins in Cultured Chick Intestine. 2020 , 57, 210-222	5
364	The Potential of Frog Skin Peptides for Anti-Infective Therapies: The Case of Esculentin-1a(1-21)NH ₂ . 2020 , 27, 1405-1419	7
363	Antiviral Activities of Human Host Defense Peptides. 2020 , 27, 1420-1443	35
362	Modulation of HIV transmission by <i>Neisseria gonorrhoeae</i> : molecular and immunological aspects. 2012 , 10, 211-7	36
361	Antimicrobial Peptides: An Approach to Combat Resilient Infections. 2020 , 17, 542-552	3
360	Genetic and Immunological Factors Involved in Natural Resistance to HIV-1 Infection. 2011 , 5, 35-43	14
359	HAYVANLARDA DEFENSİNER VE ZELLÜLERİ 2016 , 1, 29-29	1
358	Non-Reflex Defense Mechanisms of Upper Airway Mucosa: Possible Clinical Application. 2020 , 69, S55-S67	5
357	Proteome of the Triatomine Digestive Tract: From Catalytic to Immune Pathways; Focusing on Annexin Expression. 2020 , 7, 589435	6
356	Distribution of secretory inhibitor of platelet microbicidal protein among anaerobic bacteria isolated from stool of children with diarrhea. 2008 , 14, 5428-31	1
355	Crohn's disease--defect in innate defence. 2008 , 14, 5499-503	40
354	From intestinal stem cells to inflammatory bowel diseases. 2011 , 17, 3198-203	55
353	Relevance of α -defensins (HNP1-3) and defensin θ 1 in diabetes. 2014 , 20, 9128-37	21
352	Clinical implications of copy number variations in autoimmune disorders. 2015 , 30, 294-304	11
351	Towards the Application of Human Defensins as Antivirals. 2018 , 26, 242-254	44
350	Recent advances in the field of antimicrobial peptides in inflammatory diseases. 2013 , 2, 50	28

349	Role of the innate immunity in female reproductive tract. 2014 , 3, 1	64
348	Comparison of Efficacy of Doxycycline and Isotretinoin on Cutaneous Human Beta-Defensin-1 and -2 Levels in Acne Vulgaris. 2018 , 63, 380-385	2
347	Gut commensal bacteria, Paneth cells and their relations to radiation enteropathy. 2020 , 12, 188-202	3
346	Paneth cells in intestinal physiology and pathophysiology. 2017 , 8, 150-160	68
345	Enhancement of Antibacterial Activity of Short Tryptophan-rich Antimicrobial Peptide Pac-525 by Replacing Trp with His(chx). 2014 , 35, 2818-2824	4
344	Antimicrobial proteins in intestine and inflammatory bowel diseases. 2014 , 12, 20-33	34
343	Host Defence against Bacterial Biofilms: Mission Impossible? 2012 , 2012, 1-17	25
342	Effects of lipopolysaccharide and CpG-DNA on burn-induced skin injury. 2011 , 44, 273-8	4
341	Heterogeneous absorption of antimicrobial peptide LL37 in cells enhances population survivability. 2018 , 7,	38
340	RMSCNN: A Random Multi-Scale Convolutional Neural Network for Marine Microbial Bacteriocins Identification. 2021 , PP,	0
339	His-Rich Peptides, Gly- and His-Rich Peptides: Functionally Versatile Compounds with Potential Multi-Purpose Applications. 2021 , 27, 2945	
338	Nano- and Macroscale Imaging of Cholesterol Linoleate and Human Beta Defensin 2-Induced Changes in Biofilms. 2021 , 10,	0
337	Keratinocytes and Activation of TREM-1 Pathway in Cutaneous Leishmaniasis Lesions. 2021 , 12, 765-778	0
336	Identification of Antimicrobial Peptide Genes in Black Rockfish and Their Responsive Mechanisms to Infection. 2021 , 10,	2
335	Defensins: The natural peptide antibiotic. 2021 , 179, 114008	5
334	Identification and Mitigation of Defensins in the Immunopurification of Peptide MHC-I Antigens from Lung Tissue. 2021 ,	
333	Differential activity on trypanosomatid parasites of a novel recombinant defensin type 1 from the insect <i>Triatoma (Meccus) pallidipennis</i> . 2021 , 139, 103673	1
332	NF- κ B-dependent induction of porcine β -defensin 114 regulates intestinal epithelium homeostasis. 2021 , 192, 241-249	0

- 331 P0063 PP THE ROLE OF HUMAN BETA-DEFENSINS DURING CAMPYLOBACTER JEJUNI INFECTION. **2004**, 39, S80
- 330 Defensive Functions of the Stratum Corneum. **2005**, 5-14 3
- 329 Recent Advances in the Immunology of the Respiratory Tract. **2005**, 63-93
- 328 Paneth Cell β -Defensins. **2006**, 1029-1035
- 327 Nonspecific host defenses against foodborne pathogens. **2006**, 183-213
- 326 Non-immunologic mechanisms of pulmonary defense. **2006**, 5-18
- 325 ??????????????. **2007**, 69, 3-7
- 324 Effect of Defensins on Susceptibility to Infection at the Mucosal Surface. **2007**, 265-280
- 323 Interactions between Epithelial Cells and Dendritic Cells in Bacterial Handling. **2008**, 27, 113-122
- 322 7 Antimicrobiële peptiden (AMP β) in speeksel. **2008**, 93-110
- 321 Lung Defenses. **2008**, 49-63 1
- 320 Immunological Cytotoxic Factors.
- 319 Die Evolution des Immunsystems. **2009**, 893-920
- 318 Nachweis und Quantifizierung Defensin-positiver Zellen in der ilealen Lamina propria von Morbus Crohn-Patienten unter medikamentöser Therapie. **2009**, 235-237
- 317 Innate Immunity. **2009**, 19-35
- 316 NORMAL AND IMPAIRED IMMUNOLOGIC RESPONSES TO INFECTION. **2009**, 21-65
- 315 Prevention and Treatment of Necrotizing Enterocolitis. **2009**, 29, 346
- 314 Infection and Sepsis. **2010**, 239-274

- 313 Antimicrobial Peptides in Inflammatory Bowel Disease. **2012**, 119-132
- 312 Midkine: A Player in Innate Immunity. **2012**, 29-39
- 311 Paneth cells and stem cells in the intestinal stem cell niche and their association with inflammatory bowel disease. **2012**, 32, 053-060 1
- 310 Helping the Host: Induction of Antimicrobial Peptides as a Novel Therapeutic Strategy Against Infections. **2013**, 359-375 1
- 309 Nod1 and Nod2 and the Immune Response to Bacteria. **2013**, 191-217
- 308 Innate Immune Responses and Bronchiolitis Obliterans Syndrome. **2013**, 147-167
- 307 Functional state of the ileum, cationic peptides and zinc content in the Paneth cells of the rats following lincomycin, indomethacin and methotrexate administration. **2013**, 59, 78-88
- 306 Immunological Cytotoxic Factors. 1
- 305 General Immunology of the Genital Tract. **2014**, 15-64
- 304 Innate Immunity of the Epidermis (2) :. **2014**, 76, 482-486
- 303 Mouse Models as Paradigms of Human Diseases. **2014**, 163-177
- 302 Periplasmic Events in the Assembly of Bacterial Lipopolysaccharides. 214-234
- 301 Underlying concepts of the pathophysiology of cystic fibrosis in the sweat gland, GI tract, and lung. **2015**, 71-84
- 300 Intracellular Antibiotic Molecules. 1-8
- 299 Epithelial Cells: Immunological Aspects. 1-11
- 298 Anti-infective peptides. **2015**, 96-110
- 297 Human Amniotic Membrane Promotes Antimicrobial Microenvironment in a Device-Related Infection. **2016**, 09, 122-126 1
- 296 Neutrophils. **2016**, 147-167 2

- 295 Antimicrobial and antiviral effects of human defensins: pathogenetic value and prospective application to medicinal therapy. **2016**, 14, 3-37
- 294 An interaction map of circulating metabolites, immune gene networks and their genetic regulation.
- 293 Humoral Factors in the Skin. **2017**, 115-142
- 292 Human Beta Defensins 1, 2 and 3 Produced by Amniochorion Membranes Is Similar in Term and Preterm Delivery. **2017**, 07, 846-857 ○
- 291 Associations between HBD3 and Pro-Inflammatory Cytokines in Asymptomatic Irreversible Pulpitis. **2017**, 14-19
- 290 Bacterial colonization stimulates a complex physiological response in the immature human intestinal epithelium.
- 289 Using Insects as Models of Immunosenescence. **2018**, 1-15
- 288 Candida psilosis Complex. **2018**, 526-543
- 287 Exploring Peptide Sequence Space Using Artificial Intelligence for Antimicrobial Peptides.
- 286 Heterogeneous Absorption of Antimicrobial Peptide LL37 in Escherichia coli Cells Enhances Population Survivability.
- 285 One drug multiple targets: An approach to predict drug efficacies on bacterial strains differing in membrane composition. 1
- 284 NOD1 and NOD2 and the Immune Response to Bacteria. **2019**, 251-280
- 283 An Overview of the Therapeutic Aspect of Living Drugs Probiotics. **2019**, 1-34
- 282 Innate Immunological Defenses Against Bacterial Attack. **2019**, 31-46
- 281 Eukaryotic Expression and Purification of Mature Bovine Neutrophil α -Defensins 4. **2019**, 09, 169-176
- 280 Defensinas humanas y su funci3n en cavidad oral. **2019**, 10, 77-83
- 279 Role of Sex Hormones in Regulating Innate Immune Protection against HIV in the Human Female Reproductive Tract. **2019**, 15, 92-101
- 278 sMode of action of the antimicrobial peptide Mel4 is independent of Staphylococcus aureus cell membrane permeability. ○

277	Activity of Antimicrobial Peptide; Cathelicidin, on Bacterial Infection. 2019 , 13, 45-53	3
276	Single Cell RNAseq Reveals A Critical Role of Chloride Channels in Airway Development.	
275	Functional Changes of Paneth Cells in the Intestinal Epithelium of Mice with Obstructive Jaundice and After Internal and External Biliary Drainage. 2019 , 19, 746-757	1
274	The human α -defensin-derived peptide HD5(1-9) inhibits cellular attachment and entry of human cytomegalovirus.	
273	Chicken avian α -defensin 8 modulates immune response via the mitogen-activated protein kinase signaling pathways in a chicken macrophage cell line.	
272	Salivary Biomarkers in Neurologic Diseases. 2020 , 121-152	
271	Outer membrane permeabilization by the membrane attack complex sensitizes Gram-negative bacteria to antimicrobial proteins in serum and phagocytes.	
270	Mass Spectrometry-Based Identification of Urinary Antimicrobial Peptides in Dairy Cows. 2020 , 27, 225-235	2
269	Chicken avian α -defensin 8 modulates immune response via the mitogen-activated protein kinase signaling pathways in a chicken macrophage cell line.	
268	Vaccine therapy for dysbiosis-related diseases. 2020 , 26, 2758-2767	0
267	ARE THEY ALSO MIND COLONIZERS? EXPLORING THE ASSOCIATION BETWEEN GUT MICROBIOTA AND DEPRESSION. 2020 , 4, 168-177	
266	DEFB4A is a potential prognostic biomarker for colorectal cancer. 2020 , 20, 114	3
265	Profiles of expression pattern and tissue distribution of host defense peptides genes in different chicken (<i>Gallus gallus</i>) breeds related to body weight.	
264	Nanotechnology-Based Delivery Systems for Antimicrobial Peptides. 2021 , 13,	4
263	Leukocyte reduction filters as an alternative source of peripheral blood leukocytes for research. 2021 , 43, 494-498	1
262	Profiles of expression pattern and tissue distribution of host defense peptides genes in different chicken (<i>Gallus gallus</i>) breeds related to body weight. 2020 , 15, e0238675	0
261	Antagonism of Adherent Invasive <i>E. coli</i> LF82 With Human α -defensin 5 in the Follicle-associated Epithelium of Patients With Ileal Crohn's Disease. 2021 , 27, 1116-1127	1
260	α -defensins and the inflammatory periodontal diseases: a systematic review. 2020 , 25, 276-286	1

- 259 Experimental assessment of K locus effects on the gray wolf response to virus.
- 258 Insect antimicrobial peptides: isolation, separation and antimicrobial activity. **2021**, 37, 00154
- 257 [Clinical effectiveness of an immunomodulatory drug based on a muramylpeptide composition in the treatment of patients with chronic generalized periodontitis]. **2020**, 99, 24-27 2
- 256 The Role of Uteropathogenic Escherichia Coli in the Development of Canine Pyometra. **2020**, 510-527
- 255 The innate immune system. **2020**, 307-314
- 254 Honey and Its Derivatives: A New Perspective on Its Antimicrobial Activities. **2020**, 121-149
- 253 Autophagy-associated Production of Antimicrobial Peptides hBD1 and LL37 Exhibits Anti-Bacillus Calmette-Guŕin Effects in Lung Epithelial Cells.
- 252 A Novel Approach on Leukodepletion Filters: Investigation of Synergistic Anticancer Effect of Purified ŒDefensins and Nisin. **2021**, 11, 378-384 1
- 251 Defensins and other antimicrobial mediators. 113-121
- 250 Antimicrobial and related activities of chemokines. **2006**, 151-164
- 249 Gut Immunity and Inflammatory Bowel Disease. **2008**, 15-29
- 248 The role of defensins. 83-90
- 247 Innate immune responses in inflammatory bowel disease. 3-11
- 246 State-of-the-Art Lecture: Distinct antibacterial-defensin deficiencies in small intestinal and colonic Crohnŕ disease. 128-136
- 245 Bridging Mucosal Innate Immunity to the Adaptive Immune System. **2008**, 77-133
- 244 Bacterial Infections. **2008**, 335-361
- 243 In Silico Study of Pacific oyster Antiviral Polypeptides as Potential Inhibitory Compounds for SARS-CoV-2 Main Protease. **2020**, 11, 2
- 242 Nuclear localization of HBD-1 in human keratinocytes. **2007**, 7, e3 5

241	Expression of mouse beta defensin 2 in escherichia coli and its broad-spectrum antimicrobial activity. 2011 , 42, 1180-7	2
240	Effects of antimicrobial peptides on Staphylococcus aureus growth and biofilm formation in vitro following isolation from implant-associated infections. 2015 , 8, 1546-51	6
239	The First Line of Defense: The Effects of Alcohol on Post-Burn Intestinal Barrier, Immune Cells, and Microbiome. 2015 , 37, 209-22	14
238	Systemic levels of human α -defensin 1 are elevated in patients with cirrhosis. 2016 , 29, 63-70	15
237	Inflammatory bowel disease related innate immunity and adaptive immunity. 2016 , 8, 2490-7	64
236	Antimicrobial Properties of Amniotic and Chorionic Membranes: A Comparative Study of Two Human Fetal Sacs. 2017 , 18, 218-224	16
235	Host-parasite Responses Outcome Regulate the Expression of Antimicrobial Peptide Genes in the Skin of BALB/c and C57BL/6 Murine Strains Following MRHO/IR/75/ER Infection. 2018 , 13, 515-523	8
234	Postpartum uterine infection & ovarian dysfunction. 2018 , 148, S64-S70	1
233	The Expanding Role of Biomarkers in Diagnosing Infection in Total Joint Arthroplasty: A Review of Current Literature. 2021 , 9, 33-43	
232	Bioinformatic analysis and antiviral effect of Periplaneta americana defensins. 2021 , 308, 198627	1
231	Effects of dietary arginine on growth, anti-oxidative enzymes, biomarkers of immunity, amino acid metabolism and resistance to Vibrio parahaemolyticus challenge in abalone Haliotis discus hannai. 2022 , 549, 737707	3
230	Immunomodulatory peptides-A promising source for novel functional food production and drug discovery. 2021 , 148, 170696	4
229	Short Peptides and Their Mimetics as Potent Antibacterial Agents and Antibiotic Adjuvants. 2021 ,	0
228	The Functions of α -Defensin in Flounder (<i>Pseudosciaenops monacanthus</i>): Antibiosis, Chemotaxis and Modulation of Phagocytosis.. 2021 , 10,	1
227	α -Antitrypsin attenuates acute rejection of orthotopic murine lung allografts. 2021 , 22, 295	0
226	A controversial role of neutrophils in tuberculosis infection pathogenesis. 2021 , 11, 809-819	1
225	Evaluation of the Binding Mechanism of Human Defensin 5 in a Bacterial Membrane: A Simulation Study. 2021 , 22,	1
224	Paradox of complex diversity: Challenges in the diagnosis and management of bacterial keratitis. 2021 , 101028	2

223	Cervicovaginal levels of human beta defensins during bacterial vaginosis. 2021 , 16, e0260753	0
222	Mass spectrometry analysis of human tear fluid biomarkers specific for ocular and systemic diseases in the context of 3P medicine. 2021 , 12, 1-27	9
221	Antimicrobial Bioceramics for Biomedical Applications. 2022 , 159-193	
220	Mesenchymal Stromal/Stem Cells-Derived Exosomes as an Antimicrobial Weapon for Orodonal Infections.. 2021 , 12, 795682	0
219	Potent bactericidal activity of reduced cryptdin-4 derived from its hydrophobicity and mediated by bacterial membrane disruption.. 2022 , 54, 289	0
218	Involvement of the Innate Immune System in the Pathogenesis of Chronic Obstructive Pulmonary Disease.. 2022 , 23,	5
217	Recombinant HNP-1 Produced by Escherichia coli Triggers Bacterial Apoptosis and Exhibits Antibacterial Activity against Drug-Resistant Bacteria.. 2022 , e0086021	0
216	Local Heat Treatment of Goat Udders Influences Innate Immune Functions in Mammary Glands.. 2022 , 26, 387	1
215	Revisiting the potential of South American rattlesnake Crotalus durissus terrificus toxins as therapeutic, theranostic and/or biotechnological agents.. 2021 , 206, 1-13	0
214	Structure-activity trend analysis between amino-acids and minimal inhibitory concentration of antimicrobial peptides.. 2021 ,	0
213	Landscape of keratinocytes transcriptome alterations in response to Trichophyton mentagrophytes infection.. 2022 , 105426	1
212	Self-Assembling Peptide-Based Hydrogels for Wound Tissue Repair.. 2022 , e2104165	10
211	Engineering Defensin Helix to produce high-affinity SARS-CoV-2 Spike protein binding ligands..	
210	Enhancing production of herpes simplex virus type 1 in oral epithelial cells by co-infection with Aggregatibacter actinomycetemcomitans.. 2022 ,	
209	Theta-Defensins to Counter COVID-19 as Furin Inhibitors: Efficiency Prediction and Novel Compound Design.. 2022 , 2022, 9735626	1
208	Plant Secondary Metabolites: An Introduction of Their Chemistry and Biological Significance with Physicochemical Aspect. 2022 , 1-45	2
207	Human neutrophil development and functionality are enabled in a humanized mouse model.	0
206	Antioxidant and Antimicrobial Peptides Derived from Food Proteins.. 2022 , 27,	4

205	Biosynthetic Microcin J25 Exerts Strong Antibacterial, Anti-Inflammatory Activities, Low Cytotoxicity Without Increasing Drug-Resistance to Bacteria Target.. 2022 , 13, 811378	1
204	Nuclear translocation of vitellogenin in the honey bee (). 2022 , 53, 13	0
203	Human defensin-inspired discovery of peptidomimetic antibiotics.. 2022 , 119, e2117283119	0
202	Detection of Circulating and Disseminated Tumor Cells and Their Prognostic Value under the Influence of Neoadjuvant Therapy in Esophageal Cancer Patients.. 2022 , 14,	1
201	Admixture Mapping of Sepsis in European Individuals With African Ancestries.. 2022 , 9, 754440	
200	Overview of Host Defense Peptides with Promising Anti-Breast Cancer Activity. 2022 ,	
199	Isolation and characterization of α -defensin-like protein 1 from epidermal mucus of fungal infected fish (<i>Cyprinus carpio</i>) and assessment of its antimicrobial potencies. 2022 , 23, 101056	0
198	α -Defensin: An adroit saviour in teleosts.. 2022 , 123, 417-430	0
197	Bps polysaccharide of <i>Bordetella pertussis</i> resists antimicrobial peptides by functioning as a dual surface shield and decoy and converts <i>Escherichia coli</i> into a respiratory pathogen.	
196	LECT2 Is a Novel Antibacterial Protein in Vertebrates.. 2022 ,	0
195	Recombinant porcine beta defensin 2 alleviates inflammatory responses induced by <i>Escherichia coli</i> in IPEC-J2 cells.. 2022 ,	0
194	Microbial resistance to nanotechnologies: An important but understudied consideration using antimicrobial nanotechnologies in orthopaedic implants.. 2022 , 16, 249-270	2
193	Antifungal activity and mode of action of synthetic peptides derived from the tick <i>OsDef2</i> defensin. 2021 , e3383	0
192	Impact of Food-Derived Bioactive Compounds on Intestinal Immunity.. 2021 , 11,	1
191	Current synthetic chemistry towards cyclic antimicrobial peptides.. 2021 , e3387	0
190	Study of the clinical complex efficacy of natural cytokines and antimicrobial peptides in the treatment of patients with inflammatory periodontal diseases. 2021 , 16-20	
189	Paneth cells and intestinal health. 2021 , 29, 1362-1372	
188	Evaluation of the Bactericidal Activity of Galectins.. 2022 , 2442, 517-531	0

187 Human α -Defensin-6 Neutralizes Toxins TcdA and TcdB by Direct Binding.. **2022**, 23,

o

186 Image_1.jpeg. **2019**,

185 Image_2.jpeg. **2019**,

184 Image_3.jpeg. **2019**,

183 Table_1.xls. **2019**,

182 Table_10.xls. **2019**,

181 Table_11.xls. **2019**,

180 Table_12.xls. **2019**,

179 Table_13.xls. **2019**,

178 Table_2.xls. **2019**,

177 Table_3.xls. **2019**,

176 Table_4.xls. **2019**,

175 Table_5.xls. **2019**,

174 Table_6.xls. **2019**,

173 Table_7.xls. **2019**,

172 Table_8.xls. **2019**,

171 Table_9.xls. **2019**,

170 Image_1.TIF. **2019**,

169 Image_2.TIF. **2019**,

168 data_sheet_1.docx. **2018**,

167 Data_Sheet_1.docx. **2020**,

166 Data_Sheet_2.docx. **2020**,

165 Table_1.xlsx. **2020**,

164 Data_Sheet_1.DOC. **2020**,

163 Data_Sheet_1.pdf. **2019**,

162 Data_Sheet_1.pdf. **2020**,

161 Table_1.XLSX. **2020**,

160 Table_2.XLSX. **2020**,

159 Data_Sheet_1.xlsx. **2019**,

158 Data_Sheet_2.xlsx. **2019**,

157 Table_1.docx. **2019**,

156 Data_Sheet_1.zip. **2020**,

155 Data_Sheet_2.ZIP. **2020**,

154 Data_Sheet_3.ZIP. **2020**,

153 Data_Sheet_4.ZIP. **2020**,

152 Data_Sheet_5.ZIP. **2020**,

151 Data_Sheet_6.ZIP. 2020,

150 Data_Sheet_7.ZIP. 2020,

149 Image_1.JPEG. 2020,

148 Image_2.JPEG. 2020,

147 Image_3.JPEG. 2020,

146 Image_4.JPEG. 2020,

145 Image_5.JPEG. 2020,

144 Table_1.XLSX. 2020,

143 Table_2.XLSX. 2020,

142 Image_1.JPEG. 2020,

141 Image_2.JPEG. 2020,

140 Image_3.JPEG. 2020,

139 DataSheet_1.pdf. 2019,

138 DataSheet_2.pdf. 2019,

137 Table_1.xlsx. 2019,

136 Intracellular mechanism of antimicrobial peptide HJH-3 against *Salmonella pullorum*. 2022, 12, 14485-14491 ○

135 Expression of anti-fungal peptide, α -defensin 118 in oral fibroblasts induced by *C. albicans* β -glucan-containing particles.. 2022, 30, e20210321

134 Expression of Antimicrobial Peptide Genes in the Canine Amniotic Membrane. 2022, 9, 200 ○

- 133 Placental Tissues as Biomaterials in Regenerative Medicine.. **2022**, 2022, 6751456 1
- 132 Advances on Innate Immune Evasion by Avian Immunosuppressive Viruses. **2022**, 13, 0
- 131 Neuroimmune Interaction: A Widespread Mutual Regulation and the Weapons for Barrier Organs. **2022**, 10, 0
- 130 Upregulated genes in articular cartilage may help to counteract femoral head separation in broilers with 21 days of age.. **2022**, 147, 92-95 0
- 129 Bioactivity of orange-spotted grouper (*Epinephelus coioides*) interleukin-6 in innate immunity: Inducing inflammation, antimicrobial peptides, and innate immune molecular gene expression as well as activating phagocytosis of leukocytes and increasing survival under *Vibrio* and NNV infection. **2022**, 24, 101143
- 128 Experimental in vitro reprogramming of CD64-CD32+CD16+CD11b+ and CD64+CD32+CD16+CD11b+ neutrophilic granulocytes by arginyl-alpha-aspartyl-lysyl-valyl-tyrosyl-arginine in modelled virus-bacterial coinfection. **2020**, 23, 395-402
- 127 Complementary Experimental Methods in Genetics Open Up New Avenues of Research to Elucidate the Pathogenesis of Periodontitis. **2022**, 209-227
- 126 The Role of Microbiota in the Immunopathogenesis of Endometrial Cancer. **2022**, 23, 5756 0
- 125 The Fungicide Prothioconazole and its Metabolite Prothioconazole-Desthio Disturbed the Liver-Gut Axis in Mice.
- 124 The cecropin-prophenoloxidase regulatory mechanism is a cross-species physiological function in mosquitoes. **2022**, 104478
- 123 Engineering defensin Helix to produce high-affinity SARS-CoV -2 spike protein binding ligands. **2022**, 31, 0
- 122 Molecular Signatures of Response to Mecasermin in Children With Rett Syndrome. **2022**, 16, 0
- 121 Innate Immune Galectin-7 Specifically Targets Microbes that Decorate Themselves in Blood Group-Like Antigens. **2022**, 104482 1
- 120 Immunomodulation—What to Modulate and Why? Potential Immune Targets. **2022**, 3,
- 119 Antimicrobial Peptide Expression at the Ocular Surface and Their Therapeutic Use in the Treatment of Microbial Keratitis. **2022**, 13, 1
- 118 Maternal Supplementation with *Artemisia annua* L. Ameliorates Intestinal Inflammation via Inhibiting the TLR4/NF- κ B and MAPK Pathways and Improves Oxidative Stability of Offspring. 2
- 117 Mesenchymal stem cell-probiotic communication: Beneficial bacteria in preconditioning. **2022**, 1-20
- 116 A randomized clinical trial to assess the effect of zinc and vitamin D supplementation in addition to hypertonic saline on treatment of acute bronchiolitis. **2022**, 22,

- 115 The dual interaction of antimicrobial peptides on bacteria and cancer cells; mechanism of action and therapeutic strategies of nanostructures. **2022**, 21, 1
- 114 Host Defense Peptides at the Ocular Surface: Roles in Health and Major Diseases, and Therapeutic Potentials. 9, 2
- 113 Contact toxicity and transcriptomic analysis of terpinen-4-ol exposure in *Tribolium castaneum*. **2022**, 101950 0
- 112 Chemical Barrier Proteins in Human Body Fluids. **2022**, 10, 1472
- 111 Notch-1 mediates epithelial-mucosal healing during murine colitis recovery phase.
- 110 The thematic role of extracellular loop of VraG in activation of the membrane sensor GraS in a cystic fibrosis MRSA strain differs in nuance from the CA-MRSA strain JE2. **2022**, 17, e0270393
- 109 The in vitro and in vivo antibacterial activities of uniflorous honey from a medical plant, *Scrophularia ningpoensis* Hemsl., and characterization of its chemical profile with UPLC-MS/MS. **2022**, 115499 1
- 108 Sodium Acetate and Sodium Butyrate Differentially Upregulate Antimicrobial Component Production in Mammary Glands of Lactating Goats. 0
- 107 Neutrophil Extracellular Traps in *Candida albicans* Infection. 13, 1
- 106 A defensin isoform from the Flathead grey mullet, *Mugil cephalus* (Linnaeus 1758): Structural and functional characterisation in silico. **2022**, 25, 200128
- 105 High Selective Performance of Rationally Designed Antimicrobial Peptides Based on Ponericin-W1. 1
- 104 A Case Report of Respiratory Syncytial Virus-Infected 8p Inverted Duplication Deletion Syndrome with Low Natural Killer Cell Activity. **2022**,
- 103 Measuring Thousands of Single-Vesicle Leakage Events Reveals the Mode of Action of Antimicrobial Peptides. **2022**, 94, 9530-9539 1
- 102 Efficiency of Antimicrobial Peptides Against Multidrug-Resistant Staphylococcal Pathogens. 13, 1
- 101 Molecular insights into the adsorption mechanism of E21R and T7E21R human defensin 5 on a bacterial membrane. 1-11
- 100 Antimicrobial Peptides: Mechanism of Action.
- 99 Amyloid fil rouge from invertebrate up to human ageing: A focus on Alzheimer's disease. **2022**, 206, 111705 0
- 98 Design, synthesis, and biological evaluation of membrane-active honokiol derivatives as potent antibacterial agents. **2022**, 240, 114593 0

97	TLR4 regulates proinflammatory intestinal immune responses mediated by an atopic gut microbiota.	
96	Mesenchymal Stem Cell-Derived Antimicrobial Peptides as Potential Anti-Neoplastic Agents: New Insight into Anticancer Mechanisms of Stem Cells and Exosomes. 10,	1
95	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
94	Potential for Manuka honey-inspired therapeutics to improve the hostBiomaterial response. 2022 , 1,	
93	Human Neutrophil Defensins Disrupt Liver Interendothelial Junctions and Aggravate Sepsis. 2022 , 2022, 1-10	
92	Expression of antimicrobial host defence peptides in the central nervous system during health and disease.	0
91	Keratinocyte-derived defensins activate neutrophil-specific receptors Mrgpra2a/b to prevent skin dysbiosis and bacterial infection. 2022 ,	1
90	PTPAMP: prediction tool for plant-derived antimicrobial peptides.	
89	Comparative Genomics of the Waterfowl Innate Immune System. 2022 , 39,	
88	Silicon supplementation induces expression of a histidine-rich defensin gene family in <i>Nicotiana tabacum</i> . 1-13	
87	Investigating mammary glands of lactating goats for the presence of tertiary lymphoid organs. 13,	0
86	Bps polysaccharide of <i>Bordetella pertussis</i> resists antimicrobial peptides by functioning as a dual surface shield and decoy and converts <i>Escherichia coli</i> into a respiratory pathogen. 2022 , 18, e1010764	0
85	Tools and techniques for rational designing of antimicrobial peptides for aquaculture. 2022 , 127, 1033-1050	1
84	The first gapless, reference-quality, fully annotated genome from a Southern Han Chinese individual.	
83	The fungicide prothioconazole and its metabolite prothioconazole-desthio disturbed the liver-gut axis in mice. 2022 , 307, 136141	1
82	PigsIntestinal barrier function is more refined with aging. 2022 , 136, 104512	0
81	Recent insights into the role of defensins in diabetic wound healing. 2022 , 155, 113694	0
80	Efficacy of the combination of P5 peptide and photodynamic therapy mediated by bixin and chlorin-e6 against <i>Cutibacterium acnes</i> biofilm. 2022 , 40, 103104	0

- 79 Peptide-based Antibiotics. **2023**, 79-103 ○
- 78 Puerarin@Chitosan composite for infected bone repair through mimicking the bio-functions of antimicrobial peptides. **2023**, 21, 520-530 ○
- 77 The Main Directions of Antimicrobial Peptides Use and Synthesis Overview. **2022**, 14, 853-865 ○
- 76 Expression of defensin-associated gene can be correlated with lymph node metastasis of early stage tongue cancer. 1
- 75 Involvement of Porcine β -Defensin 129 in Sperm Capacitation and Rescue of Poor Sperm in Genital Tract Infection. **2022**, 23, 9441 ○
- 74 In Silico Prediction of Anti-Infective and Cell-Penetrating Peptides from *Thalassophryne nattereri* Natterin Toxins. **2022**, 15, 1141 ○
- 73 Emerging Roles of Noncoding RNAs in Bovine Mastitis Diseases. **2022**, 11, 1009 ○
- 72 Could AMPs and B-cells be the missing link in understanding periodontitis?. 13, ○
- 71 Defensins: defenders of human reproductive health. 1
- 70 Role of Vitamin D Deficiency in Increased Susceptibility to Respiratory Infections Among Children: A Systematic Review. **2022**, ○
- 69 Regulation of emergency granulopoiesis during infection. 13, ○
- 68 Immunoinformatics Approach to Design Novel Subunit Vaccine against the Epstein-Barr Virus. ○
- 67 Diagnosis of Deep Periprosthetic Infection of the Hip. **2022**, 28, 123-135 ○
- 66 Cathelicidin-related antimicrobial peptide mediates skeletal muscle degeneration caused by injury and Duchenne muscular dystrophy in mice. 1
- 65 Effect of Resveratrol Supplementation on Intestinal Oxidative Stress, Immunity and Gut Microbiota in Weaned Piglets Challenged with Deoxynivalenol. **2022**, 11, 1775 ○
- 64 Gastric alarmin release: A warning signal in the development of gastric mucosal diseases. 13, ○
- 63 Differences in antimicrobial components between bacterial culture-positive and culture-negative bovine clinical mastitis milk. **2022**, 93, ○
- 62 Regulation of LL-37 in Bone and Periodontium Regeneration. **2022**, 12, 1533 1

61	Myticofensin, a novel antimicrobial peptide family identified from <i>Mytilus coruscus</i> . 2022 ,	1
60	Chicken β -defensin-1 peptide as a candidate anticoccidial agent in broiler chickens. 1-18	0
59	Segregation analysis identifies specific alpha-defensin (DEFA1A3) SNP α haplotypes in predisposition to IgA nephropathy.	0
58	Effects of dietary methionine on growth and body composition, indicators of digestion, protein metabolism and immunity, and resistance to heat stress of abalone <i>Haliotis discus hannai</i> . 2022 , 738978	0
57	Gut α Microbiota Interactions in Chronic Obstructive Pulmonary Disease (COPD): Potential Mechanisms Driving Progression to COPD and Epidemiological Data.	0
56	Does <i>Lactobacillus</i> Exert a Protective Effect on the Development of Cervical and Endometrial Cancer in Women?. 2022 , 14, 4909	2
55	Human neutrophil development and functionality are enabled in a humanized mouse model. 2022 , 119,	1
54	Effect of Supplementation with Organic Selenium or Turmeric and Rosemary Mixture on Beta-Defensin Content in Goat Milk. 2022 , 12, 2948	0
53	S100 Proteins as Novel Therapeutic Targets in Psoriasis and Other Autoimmune Diseases. 2022 , 27, 6640	1
52	Important Roles and Potential Uses of Natural and Synthetic Antimicrobial Peptides (AMPs) in Oral Diseases: Cavity, Periodontal Disease, and Thrush. 2022 , 13, 175	0
51	Equus β -Defensin-1 Regulates Innate IMMUNE Response in <i>S. aureus</i> -Infected Mouse Monocyte Macrophage. 2022 , 12, 2958	0
50	β -defensins as marker for male fertility: a comprehensive review.	0
49	Mesenchymal Stem Cell-Probiotic Communication: Beneficial Bacteria in Preconditioning. 2022 , 545-564	0
48	Eosinophils: Focus on DNA extracellular traps. 2022 , 311, 121191	1
47	Antimicrobial peptides β -defensin family: Expression and regulation in the endometrium during the estrous cycle and pregnancy in pigs. 2023 , 139, 104596	0
46	Use of β -Defensins to Help Diagnose Nosocomial Ventriculitis.	0
45	Functional Diversification of Oyster Big Defensins Generates Antimicrobial Specificity and Synergy against Members of the Microbiota. 2022 , 20, 745	0
44	β -defensinas como posibles indicadores de la actividad inflamatoria en la enfermedad periodontal.. 2022 , 63, 414-434	0

- 43 Bacterial resistance to antibacterial agents: Mechanisms, control strategies, and implications for global health. **2022**, 160461 1
- 42 Parasitic infection increases risk-taking in a social, intermediate host carnivore. **2022**, 5, 0
- 41 Mouse β Defensins: Structural and Functional Analysis of the 17 Cryptdin Isoforms Identified from a Single Jejunal Crypt. 0
- 40 Human β Defensin 2 ameliorates acute GVHD by limiting ileal neutrophil infiltration and restraining T cell receptor signaling. **2022**, 14, 0
- 39 Mutation-driven evolution of antibacterial function in an ancestral antifungal scaffold: Significance for peptide engineering. 13, 0
- 38 Biologically Active Peptides from Venoms: Applications in Antibiotic Resistance, Cancer, and Beyond. **2022**, 23, 15437 0
- 37 Plasma human neutrophil peptides as biomarkers of disease severity and mortality in patients with decompensated cirrhosis. 0
- 36 Characterization of defensin gene of Asom hill goat and in-silico designing of novel antimicrobial peptides. **2018**, 88, 530-533 0
- 35 Is Vitamin D3 a Worthy Supplement Protecting against Secondary Infections in Dogs with Atopic Dermatitis?. **2023**, 12, 145 0
- 34 Vertebral Bone Marrow Clot towards the Routine Clinical Scenario in Spine Surgeries: What about the Antimicrobial Properties?. **2023**, 24, 1744 0
- 33 Editorial: Community series in antimicrobial peptides: Molecular design, structure function relationship and biosynthesis optimization. 14, 0
- 32 β Defensin-1 Regulates Influenza Virus Infection in Human Bronchial Epithelial Cells through the STAT3 Signaling Pathway. **2023**, 12, 123 0
- 31 The first gapless, reference-quality, fully annotated genome from a Southern Han Chinese individual. 0
- 30 Depleting Cationic Lipids Involved in Antimicrobial Resistance Drives Adaptive Lipid Remodeling in *Enterococcus faecalis*. 0
- 29 Airway microbiome-immune crosstalk in chronic obstructive pulmonary disease. 13, 0
- 28 Expression and functional characterization of three β defensins in grass carp (*Ctenopharyngodon idella*). **2023**, 140, 104616 0
- 27 Characterisation of a novel crustin isoform from mud crab, *Scylla serrata* (Forsskål 1775) and its functional analysis in silico. **2023**, 11, 0
- 26 In Vitro Pharmacokinetics of LL-37 and Oncorhyncin II Combination Against *Acinetobacter baumannii*. **2023**, 15, 0

- 25 Purification and characterization of antimicrobial peptides. **2023**, 67-80 ○
- 24 Nanospun membranes developed by electrospinning techniques for drug delivery applications. **2023**, 471-499 ○
- 23 IgY antibodies: The promising potential to overcome antibiotic resistance. 14, 1 ○
- 22 Omics are Getting Us Closer to Understanding IgA Nephropathy. **2023**, 71, ○
- 21 Bridging Thermodynamics, Antimicrobial Activity, and pH Sensitivity of Cationic Membranolytic Heptapeptides: A Computational and Experimental Study. ○
- 20 Human beta defensin-2 loaded PLGA nanoparticles impregnated in collagen-chitosan composite scaffold for the management of diabetic wounds. **2023**, 161, 114540 ○
- 19 m6A modification in inflammatory bowel disease provides new insights into clinical applications. **2023**, 159, 114298 ○
- 18 Oral Cavity Beta-Defensin Levels Are Regulated Differently during Radiotherapy in Head and Neck Cancer Patients. **2023**, 13, 2056 ○
- 17 LL-37-dsRNA Complexes Modulate Immune Response via RIG-I in Oral Keratinocytes. ○
- 16 Flagella-driven motility is a target of human Paneth cell defensin activity. **2023**, 19, e1011200 ○
- 15 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 ○
- 14 Antibacterial Peptides: Potential Therapeutic Agent. **2023**, 61-92 ○
- 13 Evolutionary trend of bovine α -defensin proteins toward functionality prediction: A domain-based bioinformatics study. **2023**, 9, e14158 ○
- 12 Vitamin D influences gut microbiota and acetate production in zebrafish (*Danio rerio*) to promote intestinal immunity against invading pathogens. **2023**, 15, ○
- 11 Human α -Defensins in Diagnosis of Head and Neck Cancers. **2023**, 12, 830 ○
- 10 Defensin Interactions in Relation to Monoclonal and Disease-Related Proteinase 3 Antibodies Binding at the Catalytic Site. **2023**, 12, 23 ○
- 9 Exploring the Limits of Cyanobactin Macrocyclase PatGmac: Cyclization of PawS-Derived Peptide Sunflower Trypsin Inhibitor-1 and Cyclotide Kalata B1. **2023**, 86, 566-573 ○
- 8 α -Defensin-4 as an endogenous biomarker in cows with mastitis. 10, ○

- 7 Evolutionary diversification of defensins and cathelicidins in birds and primates. **2023**, 157, 53-69 ○
- 6 Axl alleviates DSS-induced colitis by preventing dysbiosis of gut microbiota. **2023**, 13, ○
- 5 Pathogenesis and Laboratory Diagnosis of Childhood Urinary Tract Infection. 101-107 ○
- 4 Emerging Technologies in Diagnosing Periprosthetic Joint Infections. ○
- 3 Anemia syndrome associated with malignant neoplasms in patients with colorectal cancer. **2023**, 22, 62-67 ○
- 2 Biodegradable Polymers and Polymer Composites with Antibacterial Properties. **2023**, 24, 7473 ○
- 1 CogiTx1: A novel subtilisin A inhibitor isolated from the sea anemone *Condylactis gigantea* belonging to the defensin 4 protein family. **2023**, 213, 41-53 ○