

Birgitta Agerberth

List of Publications by Year in descending order

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97
papers

10,192
citations

50276

46
h-index

39675

94
g-index

97
all docs

97
docs citations

97
times ranked

9921
citing authors

#	ARTICLE	IF	CITATIONS
1	The Expression of the Gene Coding for the Antibacterial Peptide LL-37 Is Induced in Human Keratinocytes during Inflammatory Disorders. <i>Journal of Biological Chemistry</i> , 1997, 272, 15258-15263.	3.4	698
2	The human antimicrobial and chemotactic peptides LL-37 and α -defensins are expressed by specific lymphocyte and monocyte populations. <i>Blood</i> , 2000, 96, 3086-3093.	1.4	662
3	The antimicrobial peptide cathelicidin protects the urinary tract against invasive bacterial infection. <i>Nature Medicine</i> , 2006, 12, 636-641.	30.7	553
4	Conformation-dependent Antibacterial Activity of the Naturally Occurring Human Peptide LL-37. <i>Journal of Biological Chemistry</i> , 1998, 273, 3718-3724.	3.4	547
5	The Human Gene <i>FALL39</i> and Processing of the Cathelin Precursor to the Antibacterial Peptide LL-37 in Granulocytes. <i>FEBS Journal</i> , 1996, 238, 325-332.	0.2	502
6	Structure and organization of the human antimicrobial peptide LL-37 in phospholipid membranes: relevance to the molecular basis for its non-cell-selective activity. <i>Biochemical Journal</i> , 1999, 341, 501-513.	3.7	494
7	Cutaneous Injury Induces the Release of Cathelicidin Anti-Microbial Peptides Active Against Group A Streptococcus. <i>Journal of Investigative Dermatology</i> , 2001, 117, 91-97.	0.7	488
8	Downregulation of bactericidal peptides in enteric infections: A novel immune escape mechanism with bacterial DNA as a potential regulator. <i>Nature Medicine</i> , 2001, 7, 180-185.	30.7	386
9	Crosstalk between neutrophils, B-1a cells and plasmacytoid dendritic cells initiates autoimmune diabetes. <i>Nature Medicine</i> , 2013, 19, 65-73.	30.7	370
10	Amino acid sequence of PR-39. Isolation from pig intestine of a new member of the family of proline-arginine-rich antibacterial peptides. <i>FEBS Journal</i> , 1991, 202, 849-854.	0.2	321
11	Improved outcome in shigellosis associated with butyrate induction of an endogenous peptide antibiotic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9178-9183.	7.1	259
12	Pancreatic β -Cells Limit Autoimmune Diabetes via an Immunoregulatory Antimicrobial Peptide Expressed under the Influence of the Gut Microbiota. <i>Immunity</i> , 2015, 43, 304-317.	14.3	247
13	Uropathogenic <i>Escherichia coli</i> Modulates Immune Responses and Its Curli Fimbriae Interact with the Antimicrobial Peptide LL-37. <i>PLoS Pathogens</i> , 2010, 6, e1001010.	4.7	203
14	Antimicrobial peptides important in innate immunity. <i>FEBS Journal</i> , 2011, 278, 3942-3951.	4.7	198
15	Biochemical and Antibacterial Analysis of Human Wound and Blister Fluid. <i>FEBS Journal</i> , 1996, 237, 86-92.	0.2	192
16	Antimicrobial Polypeptides of Human Vernix Caseosa and Amniotic Fluid: Implications for Newborn Innate Defense. <i>Pediatric Research</i> , 2003, 53, 211-216.	2.3	168
17	Phenylbutyrate induces LL-37-dependent autophagy and intracellular killing of <i>Mycobacterium tuberculosis</i> in human macrophages. <i>Autophagy</i> , 2015, 11, 1688-1699.	9.1	162
18	Antibacterial Components in Bronchoalveolar Lavage Fluid from Healthy Individuals and Sarcoidosis Patients. <i>American Journal of Respiratory and Critical Care Medicine</i> , 1999, 160, 283-290.	5.6	154

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19	Neutrophil antibacterial peptides, multifunctional effector molecules in the mammalian immune system. <i>Journal of Immunological Methods</i> , 1999, 232, 45-54.	1.4	154
20	Involvement of the Antimicrobial Peptide LL-37 in Human Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1551-1557.	2.4	139
21	Isolation and characterization of porcine diazepam-binding inhibitor, a polypeptide not only of cerebral occurrence but also common in intestinal tissues and with effects on regulation of insulin release. <i>FEBS Journal</i> , 1988, 174, 239-244.	0.2	127
22	Antimicrobial peptides in the first line defence of human colon mucosa. <i>Peptides</i> , 2003, 24, 523-530.	2.4	127
23	Significant Effects of Oral Phenylbutyrate and Vitamin D3 Adjunctive Therapy in Pulmonary Tuberculosis: A Randomized Controlled Trial. <i>PLoS ONE</i> , 2015, 10, e0138340.	2.5	125
24	Antimicrobial peptide LL-37 promotes bacterial phagocytosis by human macrophages. <i>Journal of Leukocyte Biology</i> , 2014, 95, 971-981.	3.3	122
25	Phenylbutyrate Induces Antimicrobial Peptide Expression. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 5127-5133.	3.2	120
26	Isolation and identification of antimicrobial components from the epidermal mucus of Atlantic cod (<i>Gadus morhua</i>). <i>FEBS Journal</i> , 2005, 272, 4960-4969.	4.7	119
27	Apolipoprotein A-I Binds and Inhibits the Human Antibacterial/Cytotoxic Peptide LL-37. <i>Journal of Biological Chemistry</i> , 1998, 273, 33115-33118.	3.4	116
28	The role of the multifunctional peptide LL-37 in host defense. <i>Frontiers in Bioscience - Landmark</i> , 2008, Volume, 3760.	3.0	116
29	Expression and Activity of β -Defensins and LL-37 in the Developing Human Lung. <i>Journal of Immunology</i> , 2005, 174, 1608-1615.	0.8	105
30	<i>Neisseria gonorrhoeae</i> downregulates expression of the human antimicrobial peptide LL-37. <i>Cellular Microbiology</i> , 2005, 7, 1009-1017.	2.1	102
31	Induction of the human cathelicidin LL-37 as a novel treatment against bacterial infections. <i>Journal of Leukocyte Biology</i> , 2012, 92, 735-742.	3.3	94
32	Antimicrobial Polypeptides of Human Vernix Caseosa and Amniotic Fluid: Implications for Newborn Innate Defense. <i>Pediatric Research</i> , 2003, 53, 211-216.	2.3	90
33	Induction of the Antimicrobial Peptide CRAMP in the Blood-Brain Barrier and Meninges after Meningococcal Infection. <i>Infection and Immunity</i> , 2006, 74, 6982-6991.	2.2	82
34	Cathelicidin LL-37 in Severe <i>Streptococcus pyogenes</i> Soft Tissue Infections in Humans. <i>Infection and Immunity</i> , 2008, 76, 3399-3404.	2.2	79
35	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. <i>BMC Pulmonary Medicine</i> , 2013, 13, 23.	2.0	78
36	Phenylbutyrate Counteracts <i>Shigella</i> Mediated Downregulation of Cathelicidin in Rabbit Lung and Intestinal Epithelia: A Potential Therapeutic Strategy. <i>PLoS ONE</i> , 2011, 6, e20637.	2.5	78

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37	Lactose in Human Breast Milk an Inducer of Innate Immunity with Implications for a Role in Intestinal Homeostasis. <i>PLoS ONE</i> , 2013, 8, e53876.	2.5	76
38	PU.1 and bacterial metabolites regulate the human gene CAMP encoding antimicrobial peptide LL-37 in colon epithelial cells. <i>Molecular Immunology</i> , 2008, 45, 3947-3955.	2.2	75
39	Efficacy of sodium butyrate adjunct therapy in shigellosis: a randomized, double-blind, placebo-controlled clinical trial. <i>BMC Infectious Diseases</i> , 2012, 12, 111.	2.9	73
40	The cathelicidins LL-37 and rCRAMP are associated with pathogenic events of arthritis in humans and rats. <i>Annals of the Rheumatic Diseases</i> , 2013, 72, 1239-1248.	0.9	73
41	Isolation of three antibacterial peptides from pig intestine: gastric inhibitory polypeptide(7-42), diazepam-binding inhibitor(32-86) and a novel factor, peptide 3910. <i>FEBS Journal</i> , 1993, 216, 623-629.	0.2	71
42	Narcolepsy patients have antibodies that stain distinct cell populations in rat brain and influence sleep patterns. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E3735-44.	7.1	71
43	Leukotriene B 4 triggers release of the cathelicidin LL-37 from human neutrophils: novel lipid-peptide interactions in innate immune responses. <i>FASEB Journal</i> , 2007, 21, 2897-2905.	0.5	62
44	Cathelicidin-related antimicrobial peptide protects against myocardial ischemia/reperfusion injury. <i>BMC Medicine</i> , 2019, 17, 42.	5.5	56
45	Antimicrobial Components of the Neonatal Gut Affected Upon Colonization. <i>Pediatric Research</i> , 2007, 61, 530-536.	2.3	53
46	Direct analysis of peptides and amino acids from capillary electrophoresis. <i>FEBS Letters</i> , 1991, 283, 100-103.	2.8	49
47	Modulation of Gut Microbiota by Low Methoxyl Pectin Attenuates Type 1 Diabetes in Non-obese Diabetic Mice. <i>Frontiers in Immunology</i> , 2019, 10, 1733.	4.8	47
48	Antibacterial Activities of the Cathelicidins Prophenin (Residues 62 to 79) and LL-37 in the Presence of a Lung Surfactant Preparation. <i>Antimicrobial Agents and Chemotherapy</i> , 2004, 48, 2097-2100.	3.2	42
49	A review of the innate immune defence of the human foetus and newborn, with the emphasis on antimicrobial peptides. <i>Acta Paediatrica, International Journal of Paediatrics</i> , 2014, 103, 1000-1008.	1.5	42
50	Entinostat up-regulates the CAMP gene encoding LL-37 via activation of STAT3 and HIF-1 α transcription factors. <i>Scientific Reports</i> , 2016, 6, 33274.	3.3	38
51	Phenylbutyrate induces cathelicidin expression via the vitamin D receptor: Linkage to inflammatory and growth factor cytokines pathways. <i>Molecular Immunology</i> , 2015, 63, 530-539.	2.2	37
52	Host Directed Therapy Against Infection by Boosting Innate Immunity. <i>Frontiers in Immunology</i> , 2020, 11, 1209.	4.8	37
53	Immune responses in the treatment of drug-sensitive pulmonary tuberculosis with phenylbutyrate and vitamin D3 as host directed therapy. <i>BMC Infectious Diseases</i> , 2018, 18, 303.	2.9	35
54	The antimicrobial peptide rCRAMP is present in the central nervous system of the rat. <i>Journal of Neurochemistry</i> , 2005, 93, 1132-1140.	3.9	34

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55	First line of defense in early human life. <i>Seminars in Perinatology</i> , 2004, 28, 304-311.	2.5	33
56	Prostaglandin E ₂ suppresses hCAP18/LL-37 expression in human macrophages via EP2/EP4: implications for treatment of <i>Mycobacterium tuberculosis</i> infection. <i>FASEB Journal</i> , 2018, 32, 2827-2840.	0.5	30
57	Cathelicidin-related antimicrobial peptide protects against ischaemia reperfusion-induced acute kidney injury in mice. <i>British Journal of Pharmacology</i> , 2020, 177, 2726-2742.	5.4	30
58	Cathelicidin LL-37 induces time-resolved release of LTB ₄ and TXA ₂ by human macrophages and triggers eicosanoid generation in vivo. <i>FASEB Journal</i> , 2014, 28, 3456-3467.	0.5	29
59	Specificity in Killing Pathogens Is Mediated by Distinct Repertoires of Human Neutrophil Peptides. <i>Journal of Innate Immunity</i> , 2010, 2, 508-521.	3.8	28
60	Boosting innate immunity: Development and validation of a cell-based screening assay to identify LL-37 inducers. <i>Innate Immunity</i> , 2014, 20, 364-376.	2.4	28
61	Lactose Induces Phenotypic and Functional Changes of Neutrophils and Macrophages to Alleviate Acute Pancreatitis in Mice. <i>Frontiers in Immunology</i> , 2018, 9, 751.	4.8	28
62	Host-Directed Therapy as a Novel Treatment Strategy to Overcome Tuberculosis: Targeting Immune Modulation. <i>Antibiotics</i> , 2020, 9, 21.	3.7	28
63	Battle and balance at mucosal surfaces – The story of <i>Shigella</i> and antimicrobial peptides. <i>Biochemical and Biophysical Research Communications</i> , 2010, 396, 116-119.	2.1	27
64	Innate lymphoid cell type 3-derived interleukin-22 boosts lipocalin-2 production in intestinal epithelial cells via synergy between STAT3 and NF- κ B. <i>Journal of Biological Chemistry</i> , 2019, 294, 6027-6041.	3.4	27
65	Vitamin D3 and phenylbutyrate promote development of a human dendritic cell subset displaying enhanced antimicrobial properties. <i>Journal of Leukocyte Biology</i> , 2014, 95, 883-891.	3.3	25
66	The host defense peptide LL-37 a possible inducer of the type I interferon system in patients with polymyositis and dermatomyositis. <i>Journal of Autoimmunity</i> , 2017, 78, 46-56.	6.5	25
67	Treatment with phenylbutyrate in a pre-clinical trial reduces diarrhea due to enteropathogenic <i>Escherichia coli</i> : link to cathelicidin induction. <i>Microbes and Infection</i> , 2013, 15, 939-950.	1.9	22
68	The anti-microbial peptide LL-37/CRAMP levels are associated with acute heart failure and can attenuate cardiac dysfunction in multiple preclinical models of heart failure. <i>Theranostics</i> , 2020, 10, 6167-6181.	10.0	20
69	Glucocorticoid dexamethasone down-regulates basal and vitamin D3 induced cathelicidin expression in human monocytes and bronchial epithelial cell line. <i>Immunobiology</i> , 2016, 221, 245-252.	1.9	19
70	Low Methoxyl Pectin Protects against Autoimmune Diabetes and Associated Caecal Dysfunction. <i>Molecular Nutrition and Food Research</i> , 2019, 63, e1900307.	3.3	19
71	PR-39, a proline-rich peptide antibiotic from pig, and FALL-39, a tentative human counterpart. <i>Veterinary Immunology and Immunopathology</i> , 1996, 54, 127-131.	1.2	18
72	Differential Host Immune Responses to Epidemic and Endemic Strains of <i>Shigella dysenteriae</i> Type 1. <i>Journal of Health, Population and Nutrition</i> , 2011, 29, 429-37.	2.0	18

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73	Cathelicidin Contributes to the Restriction of Leishmania in Human Host Macrophages. <i>Frontiers in Immunology</i> , 2019, 10, 2697.	4.8	18
74	Studies on citrullinated LL-37: detection in human airways, antibacterial effects and biophysical properties. <i>Scientific Reports</i> , 2020, 10, 2376.	3.3	18
75	Treatment with Entinostat Heals Experimental Cholera by Affecting Physical and Chemical Barrier Functions of Intestinal Epithelia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	3.2	16
76	Immunomodulatory Agents Combat Multidrug-Resistant Tuberculosis by Improving Antimicrobial Immunity. <i>Journal of Infectious Diseases</i> , 2021, 224, 332-344.	4.0	13
77	Novel aroylated phenylenediamine compounds enhance antimicrobial defense and maintain airway epithelial barrier integrity. <i>Scientific Reports</i> , 2019, 9, 7114.	3.3	12
78	Ciprofloxacin Affects Host Cells by Suppressing Expression of the Endogenous Antimicrobial Peptides Cathelicidins and Beta-Defensin-3 in Colon Epithelia. <i>Antibiotics</i> , 2014, 3, 353-374.	3.7	11
79	The human antimicrobial and chemotactic peptides LL-37 and α -defensins are expressed by specific lymphocyte and monocyte populations. <i>Blood</i> , 2000, 96, 3086-3093.	1.4	11
80	Label-Free Quantitative Mass Spectrometry Reveals Novel Pathways Involved in LL-37 Expression. <i>Journal of Innate Immunity</i> , 2014, 6, 365-376.	3.8	10
81	A novel cysteine-linked antibacterial surface coating significantly inhibits bacterial colonization of nasal silicone prongs in a phase one pre-clinical trial. <i>Materials Science and Engineering C</i> , 2018, 93, 782-789.	7.3	10
82	Gut microbiotaâ€CRAMP axis shapes intestinal barrier function and immune responses in dietary glutenâ€Cinduced enteropathy. <i>EMBO Molecular Medicine</i> , 2021, 13, e14059.	6.9	10
83	The host defense peptide LLâ€C37 is detected in human parotid and submandibular/sublingual saliva and expressed in glandular neutrophils. <i>European Journal of Oral Sciences</i> , 2018, 126, 93-100.	1.5	9
84	Impaired Release of Antimicrobial Peptides into Nasal Fluid of Hyper-IgE and CVID Patients. <i>PLoS ONE</i> , 2011, 6, e29316.	2.5	9
85	Slow radiological improvement and persistent low-grade inflammation after chemotherapy in tuberculosis patients with type 2 diabetes. <i>BMC Infectious Diseases</i> , 2020, 20, 933.	2.9	8
86	LL-37 is expressed in the inflamed synovium in patients with rheumatoid arthritis and downregulated by TNF inhibitors. <i>Annals of the Rheumatic Diseases</i> , 2012, 71, A12.1-A12.	0.9	6
87	<i>Klebsiella pneumoniae</i> Expressing VIM-1 Metallo- β -Lactamase Is Resensitized to Cefotaxime via Thiol-Mediated Zinc Chelation. <i>Infection and Immunity</i> , 2019, 88, .	2.2	6
88	Pancreatic secretory trypsin inhibitor (PSTI) isolated from pig intestine Influence on insulin and somatostatin release. <i>FEBS Letters</i> , 1991, 281, 227-230.	2.8	5
89	Chapter 6 Viktor Mutt: A Giant in the Field of Bioactive Peptides. <i>Comprehensive Chemical Kinetics</i> , 2008, , 397-416.	2.3	5
90	Assays for Identifying Inducers of the Antimicrobial Peptide LL-37. <i>Methods in Molecular Biology</i> , 2017, 1548, 271-281.	0.9	3

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91	Innate Effector Systems in Primary Human Macrophages Sensitize Multidrug-Resistant <i>Klebsiella pneumoniae</i> to Antibiotics. <i>Infection and Immunity</i> , 2020, 88, .	2.2	3
92	Identification of a potent antibacterial factor isolated from bronchoalveolar lavage fluid: guanidine,N-[3-[(aminoiminomethyl)amino]propyl]-N-dodecyl-, a potential source of error in the analysis of antibacterial agents. <i>Rapid Communications in Mass Spectrometry</i> , 2003, 17, 183-191.	1.5	2
93	The Novel Inducer of Innate Immunity HO53 Stimulates Autophagy in Human Airway Epithelial Cells. <i>Journal of Innate Immunity</i> , 2022, 14, 477-492.	3.8	2
94	The antimicrobial peptide rCRAMP is strongly upregulated during experimental arthritis in the rat. <i>Annals of the Rheumatic Diseases</i> , 2012, 71, A29.2-A29.	0.9	1
95	Citrullination Alters the Antibacterial and Anti-Inflammatory Functions of the Host Defense Peptide Canine Cathelicidin K9CATH In Vitro. <i>Journal of Immunology</i> , 2021, 207, 974-984.	0.8	1
96	Helping the Host: Induction of Antimicrobial Peptides as a Novel Therapeutic Strategy Against Infections. , 2013, , 359-375.		1
97	The Antimicrobial Peptide Cathelicidin protects against ischemia reperfusion-induced acute kidney injury. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO1-3-7.	0.0	0