

Gudmundur H Gudmundsson

List of Publications by Year in descending order

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63
papers

7,180
citations

117453

34
h-index

128067

60
g-index

63
all docs

63
docs citations

63
times ranked

6905
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.	1.6	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.	0.6	662
3	The antimicrobial peptide cathelicidin protects the urinary tract against invasive bacterial infection. <i>Nature Medicine</i> , 2006, 12, 636-641.	15.2	553
4	Conformation-dependent Antibacterial Activity of the Naturally Occurring Human Peptide LL-37. <i>Journal of Biological Chemistry</i> , 1998, 273, 3718-3724.	1.6	547
5	The Human Gene FALL39 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.	1.7	494
7	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.	15.2	386
8	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.	3.3	259
9	Cell-free immunity in <i>Cecropia</i> . A model system for antibacterial proteins. <i>FEBS Journal</i> , 1991, 201, 23-31.	0.2	248
10	Antimicrobial peptides important in innate immunity. <i>FEBS Journal</i> , 2011, 278, 3942-3951.	2.2	198
11	Antimicrobial Polypeptides of Human Vernix Caseosa and Amniotic Fluid: Implications for Newborn Innate Defense. <i>Pediatric Research</i> , 2003, 53, 211-216.	1.1	168
12	Phenylbutyrate induces LL-37-dependent autophagy and intracellular killing of <i>Mycobacterium tuberculosis</i> in human macrophages. <i>Autophagy</i> , 2015, 11, 1688-1699.	4.3	162
13	Neutrophil antibacterial peptides, multifunctional effector molecules in the mammalian immune system. <i>Journal of Immunological Methods</i> , 1999, 232, 45-54.	0.6	154
14	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.	1.7	142
15	Involvement of the Antibacterial Peptide LL-37 in Human Atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2006, 26, 1551-1557.	1.1	139
16	Significant Effects of Oral Phenylbutyrate and Vitamin D3 Adjunctive Therapy in Pulmonary Tuberculosis: A Randomized Controlled Trial. <i>PLoS ONE</i> , 2015, 10, e0138340.	1.1	125
17	Phenylbutyrate Induces Antimicrobial Peptide Expression. <i>Antimicrobial Agents and Chemotherapy</i> , 2009, 53, 5127-5133.	1.4	120
18	Expression and Activity of α -Defensins and LL-37 in the Developing Human Lung. <i>Journal of Immunology</i> , 2005, 174, 1608-1615.	0.4	105

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19	<i>Neisseria gonorrhoeae</i> downregulates expression of the human antimicrobial peptide LL-37. <i>Cellular Microbiology</i> , 2005, 7, 1009-1017.	1.1	102
20	Characterisation of cathelicidin gene family members in divergent fish species. <i>Molecular Immunology</i> , 2008, 45, 3723-3730.	1.0	100
21	Antimicrobial Polypeptides of Human Vernix Caseosa and Amniotic Fluid: Implications for Newborn Innate Defense. <i>Pediatric Research</i> , 2003, 53, 211-216.	1.1	90
22	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.	1.0	82
23	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.	0.8	78
24	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.	1.1	78
25	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.	1.1	76
26	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.	1.0	75
27	Efficacy of sodium butyrate adjunct therapy in shigellosis: a randomized, double-blind, placebo-controlled clinical trial. <i>BMC Infectious Diseases</i> , 2012, 12, 111.	1.3	73
28	Antimicrobial Components of the Neonatal Gut Affected Upon Colonization. <i>Pediatric Research</i> , 2007, 61, 530-536.	1.1	53
29	Cod cathelicidin: Isolation of the mature peptide, cleavage site characterisation and developmental expression. <i>Developmental and Comparative Immunology</i> , 2011, 35, 296-303.	1.0	45
30	Functional characterization of codCath, the mature cathelicidin antimicrobial peptide from Atlantic cod (<i>Gadus morhua</i>). <i>Peptides</i> , 2011, 32, 2044-2051.	1.2	44
31	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.	0.7	42
32	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.	1.6	38
33	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.	1.0	37
34	Host Directed Therapy Against Infection by Boosting Innate Immunity. <i>Frontiers in Immunology</i> , 2020, 11, 1209.	2.2	37
35	Insect immunity: cDNA clones coding for the precursor forms of cecropins A and D, antibacterial proteins from <i>Hyalophora cecropia</i> . <i>FEBS Letters</i> , 1987, 226, 8-12.	1.3	36
36	<i>Bordetella pertussis</i> Adenylate Cyclase Toxin Disrupts Functional Integrity of Bronchial Epithelial Layers. <i>Infection and Immunity</i> , 2018, 86, .	1.0	36

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37	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.	1.3	35
38	The antimicrobial peptide rCRAMP is present in the central nervous system of the rat. <i>Journal of Neurochemistry</i> , 2005, 93, 1132-1140.	2.1	34
39	First line of defense in early human life. <i>Seminars in Perinatology</i> , 2004, 28, 304-311.	1.1	33
40	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.	1.1	28
41	Lactose Induces Phenotypic and Functional Changes of Neutrophils and Macrophages to Alleviate Acute Pancreatitis in Mice. <i>Frontiers in Immunology</i> , 2018, 9, 751.	2.2	28
42	Sequence analysis of the granulysin and granzyme B genes in familial hemophagocytic lymphohistiocytosis. <i>Human Genetics</i> , 2003, 112, 98-99.	1.8	22
43	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.	1.0	22
44	Cathelicidins positively regulate pancreatic Î²-cell functions. <i>FASEB Journal</i> , 2016, 30, 884-894.	0.2	22
45	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.	0.8	19
46	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.	0.5	18
47	Cloning and Characterization of ZNF189, a Novel Human KrÄppel-like Zinc Finger Gene Localized to Chromosome 9q22. <i>Genomics</i> , 1998, 50, 213-221.	1.3	17
48	Azithromycin induces epidermal differentiation and multivesicular bodies in airway epithelia. <i>Respiratory Research</i> , 2019, 20, 129.	1.4	17
49	Treatment with Entinostat Heals Experimental Cholera by Affecting Physical and Chemical Barrier Functions of Intestinal Epithelia. <i>Antimicrobial Agents and Chemotherapy</i> , 2017, 61, .	1.4	16
50	The anti-microbial peptide LL-37 modulates immune responses in the palatine tonsils where it is exclusively expressed by neutrophils and a subset of dendritic cells. <i>Clinical Immunology</i> , 2012, 142, 139-149.	1.4	13
51	Novel aroylated phenylenediamine compounds enhance antimicrobial defense and maintain airway epithelial barrier integrity. <i>Scientific Reports</i> , 2019, 9, 7114.	1.6	12
52	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.	1.5	11
53	The human antimicrobial and chemotactic peptides LL-37 and Î±-defensins are expressed by specific lymphocyte and monocyte populations. <i>Blood</i> , 2000, 96, 3086-3093.	0.6	11
54	Label-Free Quantitative Mass Spectrometry Reveals Novel Pathways Involved in LL-37 Expression. <i>Journal of Innate Immunity</i> , 2014, 6, 365-376.	1.8	10

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55	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.	3.8	10
56	Azithromycin has lung barrier protective effects in a cell model mimicking ventilator-induced lung injury. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2020, 37, 545-560.	0.9	6
57	Assays for Identifying Inducers of the Antimicrobial Peptide LL-37. <i>Methods in Molecular Biology</i> , 2017, 1548, 271-281.	0.4	3
58	Innate Effector Systems in Primary Human Macrophages Sensitize Multidrug-Resistant <i>Klebsiella pneumoniae</i> to Antibiotics. <i>Infection and Immunity</i> , 2020, 88, .	1.0	3
59	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.	0.7	2
60	Innovative in vitro method to study ventilator induced lung injury. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2019, 36, 634-642.	0.9	2
61	Cell-free immunity in <i>Cecropia</i> . , 1991, , 189-197.		1
62	Helping the Host: Induction of Antimicrobial Peptides as a Novel Therapeutic Strategy Against Infections. , 2013, , 359-375.		1
63	Import of Preprocecropin A and Related Precursor Proteins into the Endoplasmic Reticulum. , 1990, , 311-326.		0