Charles L Bevins

List of Publications by Year
in descending order

130	15,323	23567	18130
papers	citations	58 h-index	120 g-index

132	132	132	13721
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gut inflammation provides a respiratory electron acceptor for Salmonella. Nature, 2010, 467, 426-429.	27.8	1,036
2	Enteric defensins are essential regulators of intestinal microbial ecology. Nature Immunology, 2010, 11, 76-82.	14.5	1,013
3	Reduced Paneth cell Î±-defensins in ileal Crohn's disease. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 18129-18134.	7.1	954
4	Paneth cells, antimicrobial peptides and maintenance of intestinal homeostasis. Nature Reviews Microbiology, 2011, 9, 356-368.	28.6	932
5	Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin. Nature, 2003, 422, 522-526.	27.8	723
6	Paneth Cells: Maestros of the Small Intestinal Crypts. Annual Review of Physiology, 2013, 75, 289-311.	13.1	570
7	A Chromosome 8 Gene-Cluster Polymorphism with Low Human Beta-Defensin 2 Gene Copy Number Predisposes to Crohn Disease of the Colon. American Journal of Human Genetics, 2006, 79, 439-448.	6.2	487
8	Lipocalin-2 Resistance Confers an Advantage to Salmonella enterica Serotype Typhimurium for Growth and Survival in the Inflamed Intestine. Cell Host and Microbe, 2009, 5, 476-486.	11.0	444
9	Paneth cell trypsin is the processing enzyme for human defensin-5. Nature Immunology, 2002, 3, 583-590.	14.5	423
10	Paneth cells, defensins, and the commensal microbiota: A hypothesis on intimate interplay at the intestinal mucosa. Seminars in Immunology, 2007, 19, 70-83.	5.6	346
11	Human Î±-Defensin 6 Promotes Mucosal Innate Immunity Through Self-Assembled Peptide Nanonets. Science, 2012, 337, 477-481.	12.6	337
12	Defensinâ€6 mRNA in human Paneth cells: implications for antimicrobia peptides in host defense of the human bowel. FEBS Letters, 1993, 315, 187-192.	2.8	330
13	A Randomized Clinical Trial of Ciprofloxacin and Metronidazole to Treat Acute Pouchitis. Inflammatory Bowel Diseases, 2001, 7, 301-305.	1.9	300
14	The Paneth Cell Î±-Defensin Deficiency of Ileal Crohnâ€™s Disease Is Linked to Wnt/Tcf-4. Journal of Immunology, 2007, 179, 3109-3118.	0.8	287
15	Human Enteric Defensins. Journal of Biological Chemistry, 1996, 271, 4038-4045.	3.4	272
16	Modified Pouchitis Disease Activity Index. Diseases of the Colon and Rectum, 2003, 46, 748-753.	1.3	249
17	Antimicrobial Peptides as Mediators of Epithelial Host Defense. Pediatric Research, 1999, 45, 785-794.	2.3	249
18	Endoscopic and histologic evaluation together with symptom assessment are required to diagnose pouchitis. Gastroenterology, 2001, 121, 261-267.	1.3	231

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19	Transcriptional Regulation of Î²-Defensin Gene Expression in Tracheal Epithelial Cells. Infection and Immunity, 2000, 68, 113-119.	2.2	196
20	Irritable pouch syndrome: a new category of diagnosis for symptomatic patients with ileal pouch-anal anastomosis. American Journal of Gastroenterology, 2002, 97, 972-977.	0.4	189
21	Risk Factors for Diseases of Ileal Pouchâ€“Anal Anastomosis After Restorative Proctocolectomy for Ulcerative Colitis. Clinical Gastroenterology and Hepatology, 2006, 4, 81-89.	4.4	181
22	Life in the inflamed intestine, Salmonella style. Trends in Microbiology, 2009, 17, 498-506.	7.7	172
23	Enteric Î²-Defensin: Molecular Cloning and Characterization of a Gene with Inducible Intestinal Epithelial Cell Expression Associated with Cryptosporidium parvum Infection. Infection and Immunity, 1998, 66, 1045-1056.	2.2	165
24	Intestinal bacterial translocation in rats with cirrhosis is related to compromised paneth cell antimicrobial host defense. Hepatology, 2012, 55, 1154-1163.	7.3	164
25	Interleukin-23 Orchestrates Mucosal Responses to Salmonella enterica Serotype Typhimurium in the Intestine. Infection and Immunity, 2009, 77, 387-398.	2.2	152
26	Induction and rescue of Nod2-dependent Th1-driven granulomatous inflammation of the ileum. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 14739-14744.	7.1	148
27	Paneth cell antimicrobial peptides: Topographical distribution and quantification in human gastrointestinal tissues. FEBS Letters, 2006, 580, 5344-5350.	2.8	147
28	A Randomized Placeboâ€controlled Comparison of 2 Prebiotic/Probiotic Combinations in Preterm Infants: Impact on Weight Gain, Intestinal Microbiota, and Fecal Shortâ€chain Fatty Acids. Journal of Pediatric Gastroenterology and Nutrition, 2009, 48, 216-225.	1.8	145
29	An intercrypt subpopulation of goblet cells is essential for colonic mucus barrier function. Science, 2021, 372, .	12.6	144
30	Salmonella Uses Energy Taxis to Benefit from Intestinal Inflammation. PLoS Pathogens, 2013, 9, e1003267.	4.7	139
31	Î²-Defensins: Endogenous Antibiotics of the Innate Host Defense Response. Clinical Immunology and Immunopathology, 1998, 88, 221-225.	2.0	138
32	Mechanisms of Disease: defensins in gastrointestinal diseases. Nature Reviews Gastroenterology & Hepatology, 2005, 2, 406-415.	1.7	137
33	Extensive in vivo Human Milk Peptidomics Reveals Specific Proteolysis Yielding Protective Antimicrobial Peptides. Journal of Proteome Research, 2013, 12, 2295-2304.	3.7	136
34	A Common Mutation in the Defensin DEFB126 Causes Impaired Sperm Function and Subfertility. Science Translational Medicine, 2011, 3, 92ra65.	12.4	127
35	Enteric Defensin Expression in Necrotizing Enterocolitis. Pediatric Research, 1998, 44, 20-26.	2.3	126
36	Genetic Variants of Wnt Transcription Factor TCF-4 (TCF7L2) Putative Promoter Region Are Associated with Small Intestinal Crohn's Disease. PLoS ONE, 2009, 4, e4496.	2.5	125

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37	Paneth Cell Defensins and Innate Immunity of the Small Bowel. Inflammatory Bowel Diseases, 2001, 7, 43-50.	1.9	122
38	The potterâ€™s wheel: the hostâ€™s role in sculpting its microbiota. Cellular and Molecular Life Sciences, 2011, 68, 3675-3685.	5.4	110
39	In vivo colonoscopic optical coherence tomography for transmural inflammation in inflammatory bowel disease. Clinical Gastroenterology and Hepatology, 2004, 2, 1080-1087.	4.4	97
40	Bifidobacterium longum subsp. infantis in experimental necrotizing enterocolitis: alterations in inflammation, innate immune response, and the microbiota. Pediatric Research, 2014, 76, 326-333.	2.3	95
41	The mouse genome encodes a single homolog of the antimicrobial peptide human Î²-defensin 1. FEBS Letters, 1997, 413, 45-49.	2.8	94
42	Magainins: A new family of membrane-active host defense peptides. Biochemical Pharmacology, 1990, 39, 625-629.	4.4	93
43	Dysbiosisâ€”A consequence of Paneth cell dysfunction. Seminars in Immunology, 2013, 25, 334-341.	5.6	87
44	Contribution of Flagellin Pattern Recognition to Intestinal Inflammation duringSalmonella entericaSerotype Typhimurium Infection. Infection and Immunity, 2009, 77, 1904-1916.	2.2	86
45	Regulation of C-type Lectin Antimicrobial Activity by a Flexible N-terminal Prosegment. Journal of Biological Chemistry, 2009, 284, 4881-4888.	3.4	84
46	The Capsule Encoding the viaB Locus Reduces Interleukin-17 Expression and Mucosal Innate Responses in the Bovine Intestinal Mucosa during Infection with Salmonella enterica Serotype Typhi. Infection and Immunity, 2007, 75, 4342-4350.	2.2	83
47	Multifunctional glycoprotein DEFB126â€”a curious story of defensin-clad spermatozoa. Nature Reviews Urology, 2012, 9, 365-375.	3.8	80
48	Regional variations in Paneth cell antimicrobial peptide expression along the mouse intestinal tract. BMC Immunology, 2008, 9, 37.	2.2	79
49	Helicobacter pylori Induces an Antimicrobial Response in Rhesus Macaques in a cag Pathogenicity Island-Dependent Manner. Gastroenterology, 2008, 134, 1049-1057.	1.3	76
50	Human Enteric Defensin Genes: Chromosomal Map Position and a Model for Possible Evolutionary Relationships. Genomics, 1996, 31, 95-106.	2.9	74
51	The Paneth cell and the innate immune response. Current Opinion in Gastroenterology, 2004, 20, 572-580.	2.3	74
52	A Novel Murine Î²-Defensin Expressed in Tongue, Esophagus, and Trachea. Journal of Biological Chemistry, 2000, 275, 33314-33320.	3.4	71
53	Isolation of human intestinal defensins from ileal neobladder urine. FEBS Letters, 1998, 434, 272-276.	2.8	70
54	The IgM receptor FcÎ¼R limits tonic BCR signaling by regulating expression of the IgM BCR. Nature Immunology, 2017, 18, 321-333.	14.5	69

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55	Human Alpha Defensin 5 Expression in the Human Kidney and Urinary Tract. PLoS ONE, 2012, 7, e31712.	2.5	69
56	Routine Habitat Change: A Source of Unrecognized Transient Alteration of Intestinal Microbiota in Laboratory Mice. PLoS ONE, 2012, 7, e47416.	2.5	65
57	Randomized pilot trial of a synbiotic dietary supplement in chronic HIV-1 infection. BMC Complementary and Alternative Medicine, 2012, 12, 84.	3.7	63
58	Cloning and Expression of Bovine Neutrophil Î²-Defensins. Journal of Biological Chemistry, 1999, 274, 26249-26258.	3.4	59
59	Rosacea: skin innate immunity gone awry?. Nature Medicine, 2007, 13, 904-906.	30.7	59
60	Molecular Cloning and Characterization of Rat Genes Encoding Homologues of Human Î²-Defensins. Infection and Immunity, 1999, 67, 4827-4833.	2.2	56
61	Antimicrobial polypeptides of the human colonic epithelium. Peptides, 2003, 24, 1763-1770.	2.4	54
62	Paneth Cells and Antibacterial Host Defense in Neonatal Small Intestine. Infection and Immunity, 2005, 73, 6143-6146.	2.2	54
63	Localization of the lipopolysaccharide recognition complex in the human healthy and inflamed premature and adult gut. Inflammatory Bowel Diseases, 2010, 16, 68-75.	1.9	54
64	A member of the cathelicidin family of antimicrobial peptides is produced in the upper airway of the chinchilla and its mRNA expression is altered by common viral and bacterial co-pathogens of otitis media. Molecular Immunology, 2007, 44, 2446-2458.	2.2	47
65	Human Enteric Î±-Defensin 5 Promotes Shigella Infection by Enhancing Bacterial Adhesion and Invasion. Immunity, 2018, 48, 1233-1244.e6.	14.3	47
66	Family history of CrohnÊ¼s disease is associated with an increased risk for CrohnÊ¼s disease of the pouch. Inflammatory Bowel Diseases, 2009, 15, 163-170.	1.9	46
67	In vivo gene expression profiling of human intestinal epithelial cells: analysis by laser microdissection of formalin fixed tissues. BMC Genomics, 2008, 9, 209.	2.8	45
68	Activity, Expression and Genetic Variation of Canine Î²-Defensin 103: A Multifunctional Antimicrobial Peptide in the Skin of Domestic Dogs. Journal of Innate Immunity, 2012, 4, 248-259.	3.8	45
69	Bifidobacterium bifidum in a rat model of necrotizing enterocolitis: antimicrobial peptide and protein responses. Pediatric Research, 2012, 71, 546-551.	2.3	43
70	Neonatal intestinal dysbiosis. Journal of Perinatology, 2020, 40, 1597-1608.	2.0	43
71	Innate Immune Functions of a-Defensins in the Small Intestine. Digestive Diseases, 2013, 31, 299-304.	1.9	42
72	Insulin gene expression in chicken ontogeny: Pancreatic, extrapancreatic, and prepancreatic. Developmental Biology, 1989, 132, 410-418.	2.0	41

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73	Î²-Defensin 22 is a major component of the mouse sperm glycocalyx. Reproduction, 2008, 136, 753-765.	2.6	38
74	Defensin-Barbed Innate Immunity: Clinical Associations in the Pediatric Population. Pediatrics, 2010, 125, 1237-1247.	2.1	38
75	T-cell derived acetylcholine aids host defenses during enteric bacterial infection with Citrobacter rodentium. PLoS Pathogens, 2019, 15, e1007719.	4.7	36
76	Reduced Gene Expression of Intestinal Î±â€Ðefensins Predicts Diarrhea in a Cohort of African Adults. Journal of Infectious Diseases, 2006, 193, 1464-1470.	4.0	35
77	The High Affinity IgE Receptor FcÎµRI Is Expressed by Human Intestinal Epithelial Cells. PLoS ONE, 2010, 5, e9023.	2.5	35
78	Ex vivo histology-correlated optical coherence tomography in the detection of transmural inflammation in Crohnâ€™s disease. Clinical Gastroenterology and Hepatology, 2004, 2, 754-760.	4.4	32
79	Amyloid formation: functional friend or fearful foe?. Journal of Internal Medicine, 2016, 280, 139-152.	6.0	32
80	Proteolysis triggers self-assembly and unmasks innate immune function of a human Î±-defensin peptide. Chemical Science, 2016, 7, 1738-1752.	7.4	31
81	Cytokeratin expression patterns in noncardia, intestinal metaplasiaâ€associated gastric adenocarcinoma. Cancer, 2002, 94, 820-831.	4.1	30
82	Events at the Host-Microbial Interface of the Gastrointestinal Tract V. Paneth cell Î±-defensins in intestinal host defense. American Journal of Physiology - Renal Physiology, 2005, 289, G173-G176.	3.4	30
83	Antimicrobial Peptides as Agents of Mucosal Immunity. Novartis Foundation Symposium, 1994, 186, 250-269.	1.1	30
84	Negative Interactions with the Microbiota: IBD. Advances in Experimental Medicine and Biology, 2008, 635, 67-78.	1.6	29
85	An active-site-directed irreversible inhibitor of Î”5-3-ketosteroid isomerase. Biochemical and Biophysical Research Communications, 1979, 91, 783-790.	2.1	28
86	Modification of an enzyme carboxylate residue in the inhibition of 3-oxo-.DELTA.5-steroid isomerase by (3S)-spiro[5.alpha.-androstane-3,2'-oxirane]-17.beta.-ol. Implications for the mechanism of action. Journal of the American Chemical Society, 1984, 106, 4957-4962.	13.7	28
87	Turnover of the cystic fibrosis transmembrane conductance regulator (CFTR): Slow degradation of wild-type and Î”F508 CFTR in surface membrane preparations of immortalized airway epithelial cells. , 1996, 168, 373-384.		27
88	Endotoxin Upregulates Expression of an Antimicrobial Peptide Gene in Mammalian Airway Epithelial Cells. Chest, 1994, 105, 51S-52S.	0.8	26
89	Irreversible active-site-directed inhibition of Î”5-3-ketosteroid isomerase by steroidal 17-Î²-oxiranes. Evidence for two modes of binding in steroid-enzyme complexes. Biochemical and Biophysical Research Communications, 1980, 95, 1131-1137.	2.1	25
90	A cost-effectiveness analysis of diagnostic strategies for symptomatic patients with ileal pouch-anal anastomosis. American Journal of Gastroenterology, 2003, 98, 2460-2467.	0.4	25

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91	Antimicrobial peptides: agents of border protection for companion animals. Veterinary Dermatology, 2012, 23, 177.	1.2	24
92	Identification and Characterization of a Mucosal Antimicrobial Peptide Expressed by the Chinchilla (Chinchilla lanigera) Airway. Journal of Biological Chemistry, 2004, 279, 20250-20256.	3.4	23
93	Copy Number Variation of the Beta Defensin Gene Cluster on Chromosome 8p Influences the Bacterial Microbiota within the Nasopharynx of Otitis-Prone Children. PLoS ONE, 2014, 9, e98269.	2.5	19
94	Evidence of Convergent Evolution in Humans and Macaques Supports an Adaptive Role for Copy Number Variation of the Î²-Defensin-2 Gene. Genome Biology and Evolution, 2014, 6, 3025-3038.	2.5	19
95	Defensins and Other Antimicrobial Peptides and Proteins. , 2005, , 95-110.		18
96	A sweet target for innate immunity. Nature Medicine, 2010, 16, 263-264.	30.7	18
97	Flagella at the Host-Microbe Interface: Key Functions Intersect With Redundant Responses. Frontiers in Immunology, 2022, 13, 828758.	4.8	18
98	An Experimental Approach to Rigorously Assess Paneth Cell Î±-Defensin (Defa) mRNA Expression in C57BL/6 Mice. Scientific Reports, 2019, 9, 13115.	3.3	17
99	Detection of a transient enzyme-steroid complex during active-site-directed irreversible inhibition of 3-oxo-.DELTA.5-steroid isomerase. Biochemistry, 1986, 25, 5159-5164.	2.5	16
100	Expression and Activity of a Novel Cathelicidin from Domestic Cats. PLoS ONE, 2011, 6, e18756.	2.5	15
101	Bacterial Colonization of the Hospitalized Newborn: Competition Between Staphylococcus aureus and Staphylococcus epidermidis. Pediatric Infectious Disease Journal, 2019, 38, 682-686.	2.0	15
102	Scratching the Surface. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 861-863.	2.9	14
103	Human intelectin-1 (ITLN1) genetic variation and intestinal expression. Scientific Reports, 2021, 11, 12889.	3.3	13
104	A combination of secondhand cigarette smoke and Chlamydia pneumoniae accelerates atherosclerosis. Atherosclerosis, 2012, 222, 59-66.	0.8	12
105	Whatâ€™s One Phosphate between Friends (and Foe)?. Cell Host and Microbe, 2015, 17, 1-3.	11.0	12
106	Kinetics and mechanism of the hydrolysis of 2,2,2-trifluoro-N-(3-methyl-2-cyclohexenylidene)ethylamine. .alpha.,.beta.-Unsaturated Schiff base. Journal of Organic Chemistry, 1976, 41, 346-350.	3.2	11
107	Host Factors that Shape the Enteric Flora. Inflammatory Bowel Diseases, 2006, 12, S3.	1.9	11
108	Intestinal Antimicrobial Gene Expression: Impact of Micronutrients in Malnourished Adults during a Randomized Trial. Journal of Infectious Diseases, 2010, 202, 971-978.	4.0	11

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109	Skin deep but complex. Nature, 2007, 449, 551-553.	27.8	10
110	Human intelectinâ€2 (ITLN2) is selectively expressed by secretory Paneth cells. FASEB Journal, 2022, 36, e22200.	0.5	10
111	Mechanism of inactivation of 3-oxosteroid .DELTA.5-isomerase by 17.beta.-oxiranes. Biochemistry, 1985, 24, 2606-2609.	2.5	9
112	An important clue: fingerprints point to psoriasin in defense against E. coli. Nature Immunology, 2005, 6, 12-13.	14.5	9
113	Preparation of Isolated Surface Membranes from Cystic Fibrosis Airway Epithelial Cells. Chest, 1992, 101, 58S-60S.	0.8	6
114	Molecular Biological Strategies in the Analysis of Antibiotic Peptide Gene Families: The Use Oligonucleotides as Hybridization Probes. , 1997, 78, 151-166.		6
115	Paneth Cells, Defensins, and IBD. Journal of Pediatric Gastroenterology and Nutrition, 2008, 46, E14-5.	1.8	6
116	Extensive variation in the intelectin gene family in laboratory and wild mouse strains. Scientific Reports, 2021, 11, 15548.	3.3	6
117	Localization of xenopsin and xenopsin precursor fragment immunoreactivities in the skin and gastrointestinal tract of Xenopus laevis. Cell and Tissue Research, 1992, 270, 257-263.	2.9	5
118	Paneth cells: targets of friendly fire. Nature Immunology, 2013, 14, 114-116.	14.5	4
119	Editorial: Advances in the Immunology of Host Defense Peptide: Mechanisms and Applications of Antimicrobial Functions and Beyond. Frontiers in Immunology, 2021, 12, 637641.	4.8	4
120	A cost-effectiveness analysis of diagnostic strategies for symptomatic patients with ileal pouchâ€“anal anastomosis. American Journal of Gastroenterology, 2003, 98, 2460-2467.	0.4	3
121	Reduced Paneth Cell Î±-Defensins and Antimicrobial Activity in Ileal Crohn's Disease. Inflammatory Bowel Diseases, 2006, 12, S20.	1.9	3
122	Human Î²-Defensin 2 in Primary Sclerosing Cholangitis. Clinical and Translational Gastroenterology, 2017, 8, e80.	2.5	3
123	Chemical and enzymatic conversion ofÎ²,Î³-enones toÎ±,Î²-enones. , 0, , 559-597.		2
124	Proteolytic cleavage of human enteric defensin 5 (HD5) precursor by intestinal proteases. Gastroenterology, 2000, 118, A815.	1.3	2
125	Optical coherence tomography (OCT) via colonoscopy to detect transmural inflammation in Crohn's colitis (CC). Gastroenterology, 2003, 124, A193.	1.3	1
126	77 Human Alpha Defensin 5 mRNA Levels Are Decreased in Children with Untreated, Newly Diagnosed Crohn Disease. Gastroenterology, 2009, 136, A-14.	1.3	1

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127	The Immune System in IBD: Antimicrobial Peptides. , 2017, , 75-86.		1
128	Antimicrobial Peptides in Inflammatory Bowel Disease. , 2012, , 119-132.		1
129	Human enteric defensin-5 (HD5) expression in acute pouchitis. Gastroenterology, 2000, 118, A1136.	1.3	0
130	Bacterial Translocation is Associated With Downregulation of Paneth Cell Antimicrobial Peptides in Ascitic Cirrhotic but Not in Pre-Hepatic Portal Hypertensive Rats. Gastroenterology, 2011, 140, S-928.	1.3	0