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	Human intelectinâ€2 (ITLN2) is selectively expressed by secretory Paneth cells. FASEB Journal, 2022, 36, e22200.	0.5	10
2	Flagella at the Host-Microbe Interface: Key Functions Intersect With Redundant Responses. Frontiers in Immunology, 2022, 13, 828758.	4.8	18
3	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
4	An intercrypt subpopulation of goblet cells is essential for colonic mucus barrier function. Science, 2021, 372, .	12.6	144
5	Human intelectin-1 (ITLN1) genetic variation and intestinal expression. Scientific Reports, 2021, 11, 12889.	3.3	13
6	Extensive variation in the intelectin gene family in laboratory and wild mouse strains. Scientific Reports, 2021, 11, 15548.	3.3	6
7	Neonatal intestinal dysbiosis. Journal of Perinatology, 2020, 40, 1597-1608.	2.0	43
8	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
9	T-cell derived acetylcholine aids host defenses during enteric bacterial infection with Citrobacter rodentium. PLoS Pathogens, 2019, 15, e1007719.	4.7	36
10	Bacterial Colonization of the Hospitalized Newborn: Competition Between Staphylococcus aureus and Staphylococcus epidermidis. Pediatric Infectious Disease Journal, 2019, 38, 682-686.	2.0	15
11	Human Enteric Î±-Defensin 5 Promotes Shigella Infection by Enhancing Bacterial Adhesion and Invasion. Immunity, 2018, 48, 1233-1244.e6.	14.3	47
12	The IgM receptor FcÎ¼R limits tonic BCR signaling by regulating expression of the IgM BCR. Nature Immunology, 2017, 18, 321-333.	14.5	69
13	The Immune System in IBD: Antimicrobial Peptides. , 2017, , 75-86.		1
14	Human Î²-Defensin 2 in Primary Sclerosing Cholangitis. Clinical and Translational Gastroenterology, 2017, 8, e80.	2.5	3
15	Amyloid formation: functional friend or fearful foe?. Journal of Internal Medicine, 2016, 280, 139-152.	6.0	32
16	Proteolysis triggers self-assembly and unmasks innate immune function of a human Î±-defensin peptide. Chemical Science, 2016, 7, 1738-1752.	7.4	31
17	Whatâ€™s One Phosphate between Friends (and Foe)?. Cell Host and Microbe, 2015, 17, 1-3.	11.0	12
18	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

#	Article	IF	Citations
19	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
20	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
21	Dysbiosisâ€"A consequence of Paneth cell dysfunction. Seminars in Immunology, 2013, 25, 334-341.	5.6	87
22	Paneth cells: targets of friendly fire. Nature Immunology, 2013, 14, 114-116.	14.5	4
23	Extensive in vivo Human Milk Peptidomics Reveals Specific Proteolysis Yielding Protective Antimicrobial Peptides. Journal of Proteome Research, 2013, 12, 2295-2304.	3.7	136
24	Paneth Cells: Maestros of the Small Intestinal Crypts. Annual Review of Physiology, 2013, 75, 289-311.	13.1	570
25	Innate Immune Functions of a-Defensins in the Small Intestine. Digestive Diseases, 2013, 31, 299-304.	1.9	42
26	Salmonella Uses Energy Taxis to Benefit from Intestinal Inflammation. PLoS Pathogens, 2013, 9, e1003267.	4.7	139
27	Bifidobacterium bifidum in a rat model of necrotizing enterocolitis: antimicrobial peptide and protein responses. Pediatric Research, 2012, 71, 546-551.	2.3	43
28	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
29	Human Î±-Defensin 6 Promotes Mucosal Innate Immunity Through Self-Assembled Peptide Nanonets. Science, 2012, 337, 477-481.	12.6	337
30	A combination of secondhand cigarette smoke and Chlamydia pneumoniae accelerates atherosclerosis. Atherosclerosis, 2012, 222, 59-66.	0.8	12
31	Randomized pilot trial of a synbiotic dietary supplement in chronic HIV-1 infection. BMC Complementary and Alternative Medicine, 2012, 12, 84.	3.7	63
32	Multifunctional glycoprotein DEFB126â€"a curious story of defensin-clad spermatozoa. Nature Reviews Urology, 2012, 9, 365-375.	3.8	80
33	Routine Habitat Change: A Source of Unrecognized Transient Alteration of Intestinal Microbiota in Laboratory Mice. PLoS ONE, 2012, 7, e47416.	2.5	65
34	Intestinal bacterial translocation in rats with cirrhosis is related to compromised paneth cell antimicrobial host defense. Hepatology, 2012, 55, 1154-1163.	7.3	164
35	Antimicrobial peptides: agents of border protection for companion animals. Veterinary Dermatology, 2012, 23, 177.	1.2	24
36	Human Alpha Defensin 5 Expression in the Human Kidney and Urinary Tract. PLoS ONE, 2012, 7, e31712.	2.5	69

#	Article	IF	Citations
37	Antimicrobial Peptides in Inflammatory Bowel Disease. , 2012, , 119-132.		1
38	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
39	Expression and Activity of a Novel Cathelicidin from Domestic Cats. PLoS ONE, 2011, 6, e18756.	2.5	15
40	Paneth cells, antimicrobial peptides and maintenance of intestinal homeostasis. Nature Reviews Microbiology, 2011, 9, 356-368.	28.6	932
41	The potterâ€™s wheel: the hostâ€™s role in sculpting its microbiota. Cellular and Molecular Life Sciences, 2011, 68, 3675-3685.	5.4	110
42	A Common Mutation in the Defensin DEFB126 Causes Impaired Sperm Function and Subfertility. Science Translational Medicine, 2011, 3, 92ra65.	12.4	127
43	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
44	Gut inflammation provides a respiratory electron acceptor for Salmonella. Nature, 2010, 467, 426-429.	27.8	1,036
45	Enteric defensins are essential regulators of intestinal microbial ecology. Nature Immunology, 2010, 11, 76-82.	14.5	1,013
46	A sweet target for innate immunity. Nature Medicine, 2010, 16, 263-264.	30.7	18
47	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
48	Defensin-Barbed Innate Immunity: Clinical Associations in the Pediatric Population. Pediatrics, 2010, 125, 1237-1247.	2.1	38
49	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
50	The High Affinity IgE Receptor FcÎµRI Is Expressed by Human Intestinal Epithelial Cells. PLoS ONE, 2010, 5, e9023.	2.5	35
51	Interleukin-23 Orchestrates Mucosal Responses to Salmonella enterica Serotype Typhimurium in the Intestine. Infection and Immunity, 2009, 77, 387-398.	2.2	152
52	Contribution of Flagellin Pattern Recognition to Intestinal Inflammation duringSalmonella entericaSerotype Typhimurium Infection. Infection and Immunity, 2009, 77, 1904-1916.	2.2	86
53	Regulation of C-type Lectin Antimicrobial Activity by a Flexible N-terminal Prosegment. Journal of Biological Chemistry, 2009, 284, 4881-4888.	3.4	84
54	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

#	Article	IF	Citations
55	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
56	Life in the inflamed intestine, Salmonella style. Trends in Microbiology, 2009, 17, 498-506.	7.7	172
57	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
58	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
59	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
60	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
61	Regional variations in Paneth cell antimicrobial peptide expression along the mouse intestinal tract. BMC Immunology, 2008, 9, 37.	2.2	79
62	Helicobacter pylori Induces an Antimicrobial Response in Rhesus Macaques in a cag Pathogenicity Island-Dependent Manner. Gastroenterology, 2008, 134, 1049-1057.	1.3	76
63	Paneth Cells, Defensins, and IBD. Journal of Pediatric Gastroenterology and Nutrition, 2008, 46, E14-5.	1.8	6
64	Î²-Defensin 22 is a major component of the mouse sperm glycocalyx. Reproduction, 2008, 136, 753-765.	2.6	38
65	Negative Interactions with the Microbiota: IBD. Advances in Experimental Medicine and Biology, 2008, 635, 67-78.	1.6	29
66	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
67	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
68	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
69	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
70	Rosacea: skin innate immunity gone awry?. Nature Medicine, 2007, 13, 904-906.	30.7	59
71	Skin deep but complex. Nature, 2007, 449, 551-553.	27.8	10
72	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

#	Article	IF	Citations
73	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
74	Paneth cell antimicrobial peptides: Topographical distribution and quantification in human gastrointestinal tissues. FEBS Letters, 2006, 580, 5344-5350.	2.8	147
75	Reduced Paneth Cell Î±-Defensins and Antimicrobial Activity in Ileal Crohn's Disease. Inflammatory Bowel Diseases, 2006, 12, S20.	1.9	3
76	Host Factors that Shape the Enteric Flora. Inflammatory Bowel Diseases, 2006, 12, S3.	1.9	11
77	Reduced Gene Expression of Intestinal Î±â€Defensins Predicts Diarrhea in a Cohort of African Adults. Journal of Infectious Diseases, 2006, 193, 1464-1470.	4.0	35
78	An important clue: fingerprints point to psoriasin in defense against E. coli. Nature Immunology, 2005, 6, 12-13.	14.5	9
79	Defensins and Other Antimicrobial Peptides and Proteins. , 2005, , 95-110.		18
80	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
81	Paneth Cells and Antibacterial Host Defense in Neonatal Small Intestine. Infection and Immunity, 2005, 73, 6143-6146.	2.2	54
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	Mechanisms of Disease: defensins in gastrointestinal diseases. Nature Reviews Gastroenterology & Hepatology, 2005, 2, 406-415.	1.7	137
84	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
85	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
86	In vivo colonoscopic optical coherence tomography for transmural inflammation in inflammatory bowel disease. Clinical Gastroenterology and Hepatology, 2004, 2, 1080-1087.	4.4	97
87	The Paneth cell and the innate immune response. Current Opinion in Gastroenterology, 2004, 20, 572-580.	2.3	74
88	Modified Pouchitis Disease Activity Index. Diseases of the Colon and Rectum, 2003, 46, 748-753.	1.3	249
89	Protection against enteric salmonellosis in transgenic mice expressing a human intestinal defensin. Nature, 2003, 422, 522-526.	27.8	723
90	Optical coherence tomography (OCT) via colonoscopy to detect transmural inflammation in Crohn's colitis (CC). Gastroenterology, 2003, 124, A193.	1.3	1

#	Article	IF	Citations
91	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
92	Antimicrobial polypeptides of the human colonic epithelium. Peptides, 2003, 24, 1763-1770.	2.4	54
93	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
94	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
95	Cytokeratin expression patterns in noncardia, intestinal metaplasiaâ€associated gastric adenocarcinoma. Cancer, 2002, 94, 820-831.	4.1	30
96	Paneth cell trypsin is the processing enzyme for human defensin-5. Nature Immunology, 2002, 3, 583-590.	14.5	423
97	Endoscopic and histologic evaluation together with symptom assessment are required to diagnose pouchitis. Gastroenterology, 2001, 121, 261-267.	1.3	231
98	Paneth Cell Defensins and Innate Immunity of the Small Bowel. Inflammatory Bowel Diseases, 2001, 7, 43-50.	1.9	122
99	A Randomized Clinical Trial of Ciprofloxacin and Metronidazole to Treat Acute Pouchitis. Inflammatory Bowel Diseases, 2001, 7, 301-305.	1.9	300
100	A Novel Murine Î²-Defensin Expressed in Tongue, Esophagus, and Trachea. Journal of Biological Chemistry, 2000, 275, 33314-33320.	3.4	71
101	Transcriptional Regulation of Î²-Defensin Gene Expression in Tracheal Epithelial Cells. Infection and Immunity, 2000, 68, 113-119.	2.2	196
102	Proteolytic cleavage of human enteric defensin 5 (HD5) precursor by intestinal proteases. Gastroenterology, 2000, 118, A815.	1.3	2
103	Human enteric defensin-5 (HD5) expression in acute pouchitis. Gastroenterology, 2000, 118, A1136.	1.3	0
104	Scratching the Surface. American Journal of Respiratory Cell and Molecular Biology, 1999, 20, 861-863.	2.9	14
105	Cloning and Expression of Bovine Neutrophil Î²-Defensins. Journal of Biological Chemistry, 1999, 274, 26249-26258.	3.4	59
106	Molecular Cloning and Characterization of Rat Genes Encoding Homologues of Human Î²-Defensins. Infection and Immunity, 1999, 67, 4827-4833.	2.2	56
107	Antimicrobial Peptides as Mediators of Epithelial Host Defense. Pediatric Research, 1999, 45, 785-794.	2.3	249
108	Î²-Defensins: Endogenous Antibiotics of the Innate Host Defense Response. Clinical Immunology and Immunopathology, 1998, 88, 221-225.	2.0	138

#	Article	IF	Citations
109	Isolation of human intestinal defensins from ileal neobladder urine. FEBS Letters, 1998, 434, 272-276.	2.8	70
110	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
111	Enteric Defensin Expression in Necrotizing Enterocolitis. Pediatric Research, 1998, 44, 20-26.	2.3	126
112	Molecular Biological Strategies in the Analysis of Antibiotic Peptide Gene Families: The Use Oligonucleotides as Hybridization Probes. , 1997, 78, 151-166.		6
113	The mouse genome encodes a single homolog of the antimicrobial peptide human Î²-defensin 1. FEBS Letters, 1997, 413, 45-49.	2.8	94
114	Human Enteric Defensin Genes: Chromosomal Map Position and a Model for Possible Evolutionary Relationships. Genomics, 1996, 31, 95-106.	2.9	74
115	Human Enteric Defensins. Journal of Biological Chemistry, 1996, 271, 4038-4045.	3.4	272
116	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
117	Endotoxin Upregulates Expression of an Antimicrobial Peptide Gene in Mammalian Airway Epithelial Cells. Chest, 1994, 105, 51S-52S.	0.8	26
118	Antimicrobial Peptides as Agents of Mucosal Immunity. Novartis Foundation Symposium, 1994, 186, 250-269.	1.1	30
119	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
120	Preparation of Isolated Surface Membranes from Cystic Fibrosis Airway Epithelial Cells. Chest, 1992, 101, 58S-60S.	0.8	6
121	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
122	Magainins: A new family of membrane-active host defense peptides. Biochemical Pharmacology, 1990, 39, 625-629.	4.4	93
123	Insulin gene expression in chicken ontogeny: Pancreatic, extrapancreatic, and prepancreatic. Developmental Biology, 1989, 132, 410-418.	2.0	41
124	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
125	Mechanism of inactivation of 3-oxosteroid .DELTA.5-isomerase by 17.beta.-oxiranes. Biochemistry, 1985, 24, 2606-2609.	2.5	9
126	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

#	Article	IF	Citations
127	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
128	An active-site-directed irreversible inhibitor of Î”5-3-ketosteroid isomerase. Biochemical and Biophysical Research Communications, 1979, 91, 783-790.	2.1	28
129	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
130	Chemical and enzymatic conversion ofÎ²,Î³-enones toÎ±,Î²-enones. , 0, , 559-597.		2