

Tokiyoshi Ayabe

List of Publications by Year in descending order

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69
papers

4,686
citations

201674

27
h-index

118850

62
g-index

70
all docs

70
docs citations

70
times ranked

4723
citing authors

#	ARTICLE	IF	CITATIONS
1	Regulation of Intestinal $\hat{\iota}$ -Defensin Activation by the Metalloproteinase Matrilysin in Innate Host Defense. <i>Science</i> , 1999, 286, 113-117.	12.6	1,041
2	Secretion of microbicidal $\hat{\iota}$ -defensins by intestinal Paneth cells in response to bacteria. <i>Nature Immunology</i> , 2000, 1, 113-118.	14.5	939
3	Graft-versus-host disease disrupts intestinal microbial ecology by inhibiting Paneth cell production of $\hat{\iota}$ -defensins. <i>Blood</i> , 2012, 120, 223-231.	1.4	280
4	Expression of glucocorticoid receptor $\hat{\iota}^2$ in lymphocytes of patients with glucocorticoid-resistant ulcerative colitis. <i>Gastroenterology</i> , 2000, 118, 859-866.	1.3	248
5	Efficacy of high-frequency ultrasound probes for the preoperative staging of invasion depth in flat and depressed colorectal tumors. <i>Gastrointestinal Endoscopy</i> , 1996, 44, 34-39.	1.0	178
6	Activation of Paneth Cell $\hat{\iota}$ -Defensins in Mouse Small Intestine. <i>Journal of Biological Chemistry</i> , 2002, 277, 5219-5228.	3.4	160
7	Invasion depth diagnosis of depressed type early colorectal cancers by combined use of videoendoscopy and chromoendoscopy. <i>Gastrointestinal Endoscopy</i> , 1998, 48, 362-370.	1.0	138
8	SuperNova, a monomeric photosensitizing fluorescent protein for chromophore-assisted light inactivation. <i>Scientific Reports</i> , 2013, 3, 2629.	3.3	132
9	The role of Paneth cells and their antimicrobial peptides in innate host defense. <i>Trends in Microbiology</i> , 2004, 12, 394-398.	7.7	104
10	R-Spondin1 expands Paneth cells and prevents dysbiosis induced by graft-versus-host disease. <i>Journal of Experimental Medicine</i> , 2017, 214, 3507-3518.	8.5	96
11	Modulation of Mouse Paneth Cell $\hat{\iota}$ -Defensin Secretion by mlKCa1, a Ca ²⁺ -activated, Intermediate Conductance Potassium Channel. <i>Journal of Biological Chemistry</i> , 2002, 277, 3793-3800.	3.4	90
12	Bactericidal Activity of Mouse $\hat{\iota}$ -Defensin Cryptdin-4 Predominantly Affects Noncommensal Bacteria. <i>Journal of Innate Immunity</i> , 2011, 3, 315-326.	3.8	84
13	Essential role of IFN- $\hat{\iota}^3$ in T cell-associated intestinal inflammation. <i>JCI Insight</i> , 2018, 3, .	5.0	83
14	Paneth cell $\hat{\iota}$ -defensins and enteric microbiota in health and disease. <i>Bioscience of Microbiota, Food and Health</i> , 2016, 35, 57-67.	1.8	79
15	Quantitative analysis for human glucocorticoid receptor $\hat{\iota}$ / $\hat{\iota}^2$ mRNA in IBD. <i>Biochemical and Biophysical Research Communications</i> , 2002, 296, 1286-1294.	2.1	76
16	Molecular characteristics and physiological functions of major royal jelly protein 1 oligomer. <i>Proteomics</i> , 2009, 9, 5534-5543.	2.2	65
17	Minute findings by magnifying colonoscopy are useful for the evaluation of ulcerative colitis. <i>Gastrointestinal Endoscopy</i> , 2002, 56, 535-542.	1.0	56
18	Butyric Acid and Leucine Induce $\hat{\iota}$ -Defensin Secretion from Small Intestinal Paneth Cells. <i>Nutrients</i> , 2019, 11, 2817.	4.1	55

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19	Mouse Paneth Cell Secretory Responses to Cell Surface Glycolipids of Virulent and Attenuated Pathogenic Bacteria. <i>Infection and Immunity</i> , 2005, 73, 2312-2320.	2.2	53
20	Paneth cell granule dynamics on secretory responses to bacterial stimuli in enteroids. <i>Scientific Reports</i> , 2019, 9, 2710.	3.3	52
21	Minute findings by magnifying colonoscopy are useful for the evaluation of ulcerative colitis. <i>Gastrointestinal Endoscopy</i> , 2002, 56, 535-542.	1.0	51
22	Denatured human α -defensin attenuates the bactericidal activity and the stability against enzymatic digestion. <i>Biochemical and Biophysical Research Communications</i> , 2007, 358, 349-355.	2.1	46
23	A bamboo joint-like appearance of the gastric body and cardia: possible association with Crohn's disease. <i>Gastrointestinal Endoscopy</i> , 1997, 46, 268-272.	1.0	45
24	A Pilot Study of Centrifugal Leukocyte Apheresis for Corticosteroid-Resistant Active Ulcerative Colitis. <i>Internal Medicine</i> , 1997, 36, 322-326.	0.7	42
25	Associations of gut microbiota, dietary intake, and serum short-chain fatty acids with fecal short-chain fatty acids. <i>Bioscience of Microbiota, Food and Health</i> , 2020, 39, 11-17.	1.8	37
26	Bacterial cell wall components regulate adipokine secretion from visceral adipocytes. <i>Journal of Clinical Biochemistry and Nutrition</i> , 2015, 56, 149-154.	1.4	35
27	Precursor Processing of Human Defensin-5 Is Essential to the Multiple Functions in vitro and in vivo. <i>Journal of Innate Immunity</i> , 2010, 2, 66-76.	3.8	30
28	Decrease of α -defensin impairs intestinal metabolite homeostasis via dysbiosis in mouse chronic social defeat stress model. <i>Scientific Reports</i> , 2021, 11, 9915.	3.3	28
29	Paneth cell α -defensin misfolding correlates with dysbiosis and ileitis in Crohn's disease model mice. <i>Life Science Alliance</i> , 2020, 3, e201900592.	2.8	28
30	Intestinal commensal microbiota and cytokines regulate Fut2 ⁺ Paneth cells for gut defense. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	7.1	26
31	A monoclonal antibody-based sandwich enzyme-linked immunosorbent assay for detection of secreted α -defensin. <i>Analytical Biochemistry</i> , 2013, 443, 124-131.	2.4	23
32	Functional Role of Metaplastic Paneth Cell Defensins in <i>Helicobacter pylori</i> -Infected Stomach. <i>Helicobacter</i> , 2008, 13, 370-379.	3.5	22
33	Expression of the antimicrobial peptide α -defensin/cryptdins in intestinal crypts decreases at the initial phase of intestinal inflammation in a model of inflammatory bowel disease, IL-10-deficient mice. <i>Inflammatory Bowel Diseases</i> , 2010, 16, 1488-1495.	1.9	21
34	Expression and Localization of Paneth Cells and Their α -Defensins in the Small Intestine of Adult Mouse. <i>Frontiers in Immunology</i> , 2020, 11, 570296.	4.8	19
35	Impaired nitric oxide production of the myenteric plexus in colitis detected by a new bioimaging system. <i>Journal of Surgical Research</i> , 2004, 117, 329-338.	1.6	18
36	Reciprocal Expression of Enteric Antimicrobial Proteins in Intestinal Graft-Versus-Host Disease. <i>Biology of Blood and Marrow Transplantation</i> , 2013, 19, 1525-1529.	2.0	18

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37	Centrifugal Leukocyte Apheresis for Ulcerative Colitis. <i>Therapeutic Apheresis and Dialysis</i> , 1998, 2, 125-128.	0.6	16
38	Natural history of colorectal nonpolypoid adenomas: a prospective colonoscopic study and relation with cell kinetics and K-ras mutations. <i>American Journal of Gastroenterology</i> , 2002, 97, 2109-2115.	0.4	16
39	Mycotoxin Deoxynivalenol Has Different Impacts on Intestinal Barrier and Stem Cells by Its Route of Exposure. <i>Toxins</i> , 2020, 12, 610.	3.4	16
40	Reduction of syndecan-1 expression in differentiated type early gastric cancer and background mucosa with gastric cellular phenotype. <i>Journal of Gastroenterology</i> , 2004, 39, 104-112.	5.1	13
41	Direct evidence that induced nitric oxide production in hepatocytes prevents liver damage during lipopolysaccharide tolerance in rats. <i>Journal of Surgical Research</i> , 2004, 118, 183-189.	1.6	13
42	Lower human defensin 5 in elderly people compared to middle-aged is associated with differences in the intestinal microbiota composition: the DOSANCO Health Study. <i>GeroScience</i> , 2022, 44, 997-1009.	4.6	13
43	Regulation of Microbiota by Antimicrobial Peptides in the Gut. <i>Advances in Oto-Rhino-Laryngology</i> , 2011, 72, 97-99.	1.6	11
44	Disease progression-associated alterations in fecal metabolites in SAMP1/YitFc mice, a Crohn's disease model. <i>Metabolomics</i> , 2020, 16, 48.	3.0	11
45	Paneth Cells Regulate Both Chemotaxis of Immature Dendritic Cells and Cytokine Production from Epithelial Cells. <i>Tohoku Journal of Experimental Medicine</i> , 2012, 227, 39-48.	1.2	9
46	Efficient production of a correctly folded mouse α -defensin, cryptdin-4, by refolding during inclusion body solubilization. <i>Protein Expression and Purification</i> , 2015, 112, 21-28.	1.3	9
47	A Systematic Analysis of Aromatic Heterocyclic Rings in Solvatochromic Fluorophores. <i>Chemistry Letters</i> , 2011, 40, 378-380.	1.3	8
48	Simultaneous real-time analysis of Paneth cell and intestinal stem cell response to interferon- γ by a novel stem cell niche tracking method. <i>Biochemical and Biophysical Research Communications</i> , 2021, 545, 14-19.	2.1	8
49	Tc-99m Leukocyte Imaging for Evaluating Disease Severity and Monitoring Treatment Response in Ulcerative Colitis: Comparison With Colonoscopy. <i>Clinical Nuclear Medicine</i> , 1998, 23, 509-513.	1.3	8
50	Entamoeba histolytica Alters Ileal Paneth Cell Functions in Intact and Muc2 Mucin Deficiency. <i>Infection and Immunity</i> , 2018, 86, .	2.2	7
51	Functional analysis of an α -helical antimicrobial peptide derived from a novel mouse defensin-like gene. <i>Biochemical and Biophysical Research Communications</i> , 2010, 398, 778-784.	2.1	5
52	Myc-induced nuclear antigen constrains a latent intestinal epithelial cell-intrinsic anthelmintic pathway. <i>PLoS ONE</i> , 2019, 14, e0211244.	2.5	5
53	Balloon-occluded Endoscopic Retrograde Ileography. <i>Radiology</i> , 2000, 214, 908-911.	7.3	4
54	Potent bactericidal activity of reduced cryptdin-4 derived from its hydrophobicity and mediated by bacterial membrane disruption. <i>Amino Acids</i> , 2022, 54, 289-297.	2.7	4

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55	A simple culture method for liver and intestinal tissue-resident macrophages from neonatal mice. In <i>Vitro Cellular and Developmental Biology - Animal</i> , 2019, 55, 436-444.	1.5	3
56	Ploidy-dependent change in cyclin D2 expression and sensitization to cdk4/6 inhibition in human somatic haploid cells. <i>Biochemical and Biophysical Research Communications</i> , 2018, 504, 231-237.	2.1	2
57	Analysis of Serotonin in Human Feces Using Solid Phase Extraction and Column-Switching LC-MS/MS. <i>Mass Spectrometry</i> , 2020, 9, A0081-A0081.	0.6	2
58	Effects of Cyanoacrylate on the Gastric Mucosa of Dogs â€œEndoscopic and Histopathological Studies for Sclerotherapy of Gastric Varicesâ€œ. <i>Digestive Endoscopy</i> , 1991, 3, 302-307.	2.3	1
59	Endoscopic Scoring System for Experimental Colitis with Trinitrobenzene Sulfonic Acid in Rats. <i>Digestive Endoscopy</i> , 1993, 5, 13-17.	2.3	1
60	Adaptive cytoprotection against acetic acid induced colonic injury in rats. <i>International Journal of Colorectal Disease</i> , 2001, 16, 384-390.	2.2	1
61	Genetic and phenotypic polymorphisms of the A subunit of Coagulation factor XIII in Japanese population. <i>Biochemical Genetics</i> , 2002, 40, 339-349.	1.7	1
62	Paneth cells and stem cells in the intestinal stem cell niche and their association with inflammatory bowel disease. <i>Inflammation and Regeneration</i> , 2012, 32, 053-060.	3.7	1
63	Mouse paneth cell secretory responses to in vitro microbial infection. <i>Gastroenterology</i> , 2000, 118, A695.	1.3	0
64	Remission-inducing potential of centrifugal leukocyte apheresis in refractory patients with active ulcerative colitis. <i>Gastroenterology</i> , 2000, 118, A584-A585.	1.3	0
65	Induction of dominant-negative regulator for glucocorticoid receptor observed in IBD patients. <i>Gastroenterology</i> , 2000, 118, A350.	1.3	0
66	The calcium-activated potassium channel, mKCa1, is paneth cell-specific in mouse small intestinal epithelium and functions in the secretory response. <i>Gastroenterology</i> , 2000, 118, A96.	1.3	0
67	IL-18 induces beta isoform of human glucocorticoid receptor in lymphocytes, to lead the glucocorticoid unresponsiveness in ulcerative colitis. <i>Gastroenterology</i> , 2003, 124, A334.	1.3	0
68	The role of human intestinal paneth cells expressing toll-like receptors in innate host defense. <i>Gastroenterology</i> , 2003, 124, A45.	1.3	0
69	R-spondin1 Promotes Paneth Cell Growth, Maintains Intestinal Microbial Ecology, and Ameliorates CvHD. <i>Blood</i> , 2015, 126, 230-230.	1.4	0