Guolong Zhang

List of Publications by Year
in descending order

80	7,735	66234 42	60497 81
papers	citations	h-index	g-index

82	82	82	9242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Butyrate in combination with forskolin alleviates necrotic enteritis, increases feed efficiency, and improves carcass composition of broilers. Journal of Animal Science and Biotechnology, 2022, 13, 3.	2.1	17
2	Natural Cyclooxygenase-2 Inhibitors Synergize With Butyrate to Augment Chicken Host Defense Peptide Gene Expression. Frontiers in Immunology, 2022, 13, 819222.	2.2	7
3	Biogeography, succession, and origin of the chicken intestinal mycobiome. Microbiome, 2022, 10, 55.	4.9	17
4	Lysine-Specific Demethylase 1 in Energy Metabolism: A Novel Target for Obesity. Journal of Nutrition, 2022, 152, 1611-1620.	1.3	4
5	Epigenetic Regulation of Host Defense Peptide Synthesis: Synergy Between Histone Deacetylase Inhibitors and DNA/Histone Methyltransferase Inhibitors. Frontiers in Immunology, 2022, 13, 874706.	2.2	6
6	Dietary Bacitracin Methylene Disalicylate Improves Growth Performance by Mediating the Gut Microbiota in Broilers. Antibiotics, 2022, 11, 818.	1.5	3
7	High-Throughput Identification of Epigenetic Compounds to Enhance Chicken Host Defense Peptide Gene Expression. Antibiotics, 2022, 11, 933.	1.5	3
8	Discovery of natural products capable of inducing porcine host defense peptide gene expression using cell-based high throughput screening. Journal of Animal Science and Biotechnology, 2021, 12, 14.	2.1	11
9	Linkage between the intestinal microbiota and residual feed intake in broiler chickens. Journal of Animal Science and Biotechnology, 2021, 12, 22.	2.1	28
10	Necroptosis Underlies Hepatic Damage in a Piglet Model of Lipopolysaccharide-Induced Sepsis. Frontiers in Immunology, 2021, 12, 633830.	2.2	23
11	Identification of an Intestinal Microbiota Signature Associated With the Severity of Necrotic Enteritis. Frontiers in Microbiology, 2021, 12, 703693.	1.5	20
12	Butyrate, Forskolin, and Lactose Synergistically Enhance Disease Resistance by Inducing the Expression of the Genes Involved in Innate Host Defense and Barrier Function. Antibiotics, 2021, 10, 1175.	1.5	9
13	Perturbations of the ileal mycobiota by necrotic enteritis in broiler chickens. Journal of Animal Science and Biotechnology, 2021, 12, 107.	2.1	6
14	Butyrate and Forskolin Augment Host Defense, Barrier Function, and Disease Resistance Without Eliciting Inflammation. Frontiers in Nutrition, 2021, 8, 778424.	1.6	13
15	Synergistic Induction of Chicken Antimicrobial Host Defense Peptide Gene Expression by Butyrate and Sugars. Frontiers in Microbiology, 2021, 12, 781649.	1.5	7
16	Docosahexaenoic acid alleviates cell injury and improves barrier function by suppressing necroptosis signalling in TNF-Î±-challenged porcine intestinal epithelial cells. Innate Immunity, 2020, 26, 653-665.	1.1	6
17	Chicken Intestinal Mycobiome: Initial Characterization and Its Response to Bacitracin Methylene Disalicylate. Applied and Environmental Microbiology, 2020, 86, .	1.4	20
18	Holly polyphenols alleviate intestinal inflammation and alter microbiota composition in lipopolysaccharide-challenged pigs. British Journal of Nutrition, 2020, 123, 881-891.	1.2	31

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19	Bridging intestinal immunity and gut microbiota by metabolites. Cellular and Molecular Life Sciences, 2019, 76, 3917-3937.	2.4	176
20	Differential Impact of Subtherapeutic Antibiotics and Ionophores on Intestinal Microbiota of Broilers. Microorganisms, 2019, 7, 282.	1.6	35
21	Lentinan modulates intestinal microbiota and enhances barrier integrity in a piglet model challenged with lipopolysaccharide. Food and Function, 2019, 10, 479-489.	2.1	64
22	Population genomics identifies patterns of genetic diversity and selection in chicken. BMC Genomics, 2019, 20, 263.	1.2	34
23	Maternal milk and fecal microbes guide the spatiotemporal development of mucosa-associated microbiota and barrier function in the porcine neonatal gut. BMC Biology, 2019, 17, 106.	1.7	51
24	Microbial and metabolic alterations in gut microbiota of sows during pregnancy and lactation. FASEB Journal, 2019, 33, 4490-4501.	0.2	68
25	Dietary <i>Clostridium butyricum</i> Induces a Phased Shift in Fecal Microbiota Structure and Increases the Acetic Acid-Producing Bacteria in a Weaned Piglet Model. Journal of Agricultural and Food Chemistry, 2018, 66, 5157-5166.	2.4	79
26	Comparative biogeography of the gut microbiome between Jinhua and Landrace pigs. Scientific Reports, 2018, 8, 5985.	1.6	101
27	Dietary modulation of endogenous host defense peptide synthesis as an alternative approach to in-feed antibiotics. Animal Nutrition, 2018, 4, 160-169.	2.1	41
28	Butyrate: A Double-Edged Sword for Health?. Advances in Nutrition, 2018, 9, 21-29.	2.9	639
29	Development of a Cell-Based High-Throughput Screening Assay to Identify Porcine Host Defense Peptide-Inducing Compounds. Journal of Immunology Research, 2018, 2018, 1-13.	0.9	14
30	Medium-Chain Triglycerides Attenuate Liver Injury in Lipopolysaccharide-Challenged Pigs by Inhibiting Necroptotic and Inflammatory Signaling Pathways. International Journal of Molecular Sciences, 2018, 19, 3697.	1.8	22
31	Gut Microbiota Is a Major Contributor to Adiposity in Pigs. Frontiers in Microbiology, 2018, 9, 3045.	1.5	63
32	High Throughput Screening for Natural Host Defense Peptide-Inducing Compounds as Novel Alternatives to Antibiotics. Frontiers in Cellular and Infection Microbiology, 2018, 8, 191.	1.8	29
33	Branched Chain Amino Acids: Beyond Nutrition Metabolism. International Journal of Molecular Sciences, 2018, 19, 954.	1.8	413
34	Nutrients Mediate Intestinal Bacteriaâ€"Mucosal Immune Crosstalk. Frontiers in Immunology, 2018, 9, 5.	2.2	189
35	Genomic data for 78 chickens from 14 populations. GigaScience, 2017, 6, 1-5.	3.3	28
36	Association of growth rate with hormone levels and myogenic gene expression profile in broilers. Journal of Animal Science and Biotechnology, 2017, 8, 43.	2.1	40

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37	Lactobacillus reuteri I5007 Modulates Intestinal Host Defense Peptide Expression in the Model of IPEC-J2 Cells and Neonatal Piglets. Nutrients, 2017, 9, 559.	1.7	81
38	Roles of Biogenic Amines in Intestinal Signaling. Current Protein and Peptide Science, 2017, 18, 532-540.	0.7	34
39	Glycine enhances muscle protein mass associated with maintaining Akt-mTOR-FOXO1 signaling and suppressing TLR4 and NOD2 signaling in piglets challenged with LPS. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2016, 311, R365-R373.	0.9	34
40	1,25-Dihydroxyvitamin-D3 Induces Avian Î²-Defensin Gene Expression in Chickens. PLoS ONE, 2016, 11, e0154546.	1.1	31
41	The Signal Pathway of Antibiotic Alternatives on Intestinal Microbiota and Immune Function. Current Protein and Peptide Science, 2016, 17, 785-796.	0.7	31
42	Regulation of the Intestinal Barrier Function by Host Defense Peptides. Frontiers in Veterinary Science, 2015, 2, 57.	0.9	104
43	Intestinal Microbiota Succession and Immunomodulatory Consequences after Introduction of Lactobacillus reuteri I5007 in Neonatal Piglets. PLoS ONE, 2015, 10, e0119505.	1.1	38
44	Transcriptional Regulation of Antimicrobial Host Defense Peptides. Current Protein and Peptide Science, 2015, 16, 672-679.	0.7	23
45	Avian Antimicrobial Host Defense Peptides: From Biology to Therapeutic Applications. Pharmaceuticals, 2014, 7, 220-247.	1.7	96
46	Immune regulatory activities of fowlicidin-1, a cathelicidin host defense peptide. Molecular Immunology, 2014, 59, 55-63.	1.0	43
47	Oral Administration of <i>Lactobacillus fermentum</i> I5007 Favors Intestinal Development and Alters the Intestinal Microbiota in Formula-Fed Piglets. Journal of Agricultural and Food Chemistry, 2014, 62, 860-866.	2.4	167
48	Cyclic AMP synergizes with butyrate in promoting Î²-defensin 9 expression in chickens. Molecular Immunology, 2014, 57, 171-180.	1.0	42
49	Differential regulation of human cathelicidin LL-37 by free fatty acids and their analogs. Peptides, 2013, 50, 129-138.	1.2	44
50	Induction of Porcine Host Defense Peptide Gene Expression by Short-Chain Fatty Acids and Their Analogs. PLoS ONE, 2013, 8, e72922.	1.1	106
51	Rattusin, an Intestinal Î±-Defensin-Related Peptide in Rats with a Unique Cysteine Spacing Pattern and Salt-Insensitive Antibacterial Activities. Antimicrobial Agents and Chemotherapy, 2013, 57, 1823-1831.	1.4	15
52	Tissue expression and developmental regulation of chicken cathelicidin antimicrobial peptides. Journal of Animal Science and Biotechnology, 2012, 3, 15.	2.1	47
53	Modulation of Antimicrobial Host Defense Peptide Gene Expression by Free Fatty Acids. PLoS ONE, 2012, 7, e49558.	1.1	112
54	In vitro antibacterial and hemolytic activities of crotamine, a small basic myotoxin from rattlesnake Crotalus durissus. Journal of Antibiotics, 2011, 64, 327-331.	1.0	62

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55	Butyrate Enhances Disease Resistance of Chickens by Inducing Antimicrobial Host Defense Peptide Gene Expression. PLoS ONE, 2011, 6, e27225.	1.1	191
56	Structural determinants of host defense peptides for antimicrobial activity and target cell selectivity. Biochimie, 2010, 92, 1236-1241.	1.3	264
57	A fowlicidin-1 analog protects mice from lethal infections induced by methicillin-resistant Staphylococcus aureus. Peptides, 2010, 31, 1225-1230.	1.2	31
58	The Central Kink Region of Fowlicidin-2, an Î±-Helical Host Defense Peptide, Is Critically Involved in Bacterial Killing and Endotoxin Neutralization. Journal of Innate Immunity, 2009, 1, 268-280.	1.8	69
59	Near-infrared optical tomography: endoscopic imaging approach. , 2007, , .		4
60	Canine cathelicidin (K9CATH): Gene cloning, expression, and biochemical activity of a novel pro-myeloid antimicrobial peptide. Developmental and Comparative Immunology, 2007, 31, 1278-1296.	1.0	66
61	Avian beta-defensin nomenclature: A community proposed update. Immunology Letters, 2007, 110, 86-89.	1.1	138
62	Fowlicidin-3 is an Î±-helical cationic host defense peptide with potent antibacterial and lipopolysaccharide-neutralizing activities. FEBS Journal, 2007, 274, 418-428.	2.2	77
63	Endoscopic, rapid near-infrared optical tomography. Optics Letters, 2006, 31, 2876.	1.7	54
64	Molecular and functional characterization of bovine Î²-defensin-1. Veterinary Immunology and Immunopathology, 2006, 113, 181-190.	0.5	23
65	Structure-activity relationships of fowlicidin-1, a cathelicidin antimicrobial peptide in chicken. FEBS Journal, 2006, 273, 2581-2593.	2.2	73
66	Bioinformatic and expression analysis of novel porcine Î²-defensins. Mammalian Genome, 2006, 17, 332-339.	1.0	78
67	Analyses of Five Gallinacin Genes and the Salmonella enterica Serovar Enteritidis Response in Poultry. Infection and Immunity, 2006, 74, 3375-3380.	1.0	49
68	Identification and Functional Characterization of Three Chicken Cathelicidins with Potent Antimicrobial Activity. Journal of Biological Chemistry, 2006, 281, 2858-2867.	1.6	194
69	Cross-species analysis of the mammalian Î²-defensin gene family: presence of syntenic gene clusters and preferential expression in the male reproductive tract. Physiological Genomics, 2005, 23, 5-17.	1.0	191
70	Molecular cloning and characterization of equine NK-lysin. Veterinary Immunology and Immunopathology, 2005, 105, 163-169.	0.5	44
71	A genome-wide screen identifies a single Î²-defensin gene cluster in the chicken: implications for the origin and evolution of mammalian defensins. BMC Genomics, 2004, 5, 56.	1.2	258
72	A Toll-like Receptor That Prevents Infection by Uropathogenic Bacteria. Science, 2004, 303, 1522-1526.	6.0	909

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73	Rapid evolution and diversification of mammalian Î±-defensins as revealed by comparative analysis of rodent and primate genes. Physiological Genomics, 2004, 20, 1-11.	1.0	145
74	Negative Regulation of Toll-like Receptor-mediated Signaling by Tollip. Journal of Biological Chemistry, 2002, 277, 7059-7065.	1.6	521
75	Toll-like receptorâ€"mediated NF-ÎºB activation: a phylogenetically conserved paradigm in innate immunity. Journal of Clinical Investigation, 2001, 107, 13-19.	3.9	633
76	Cloning of Porcine NRAMP1 and Its Induction by Lipopolysaccharide, Tumor Necrosis Factor Alpha, and Interleukin-1Î²: Role of CD14 and Mitogen-Activated Protein Kinases. Infection and Immunity, 2000, 68, 1086-1093.	1.0	41
77	Regulation of Cathelicidin Gene Expression: Induction by Lipopolysaccharide, Interleukin-6, Retinoic Acid, and Salmonella enterica Serovar Typhimurium Infection. Infection and Immunity, 2000, 68, 5552-5558.	1.0	91
78	Cloning and Characterization of the Gene for a New Epithelial Î²-Defensin. Journal of Biological Chemistry, 1999, 274, 24031-24037.	1.6	48
79	Identity of heart and liver l-3-hydroxyacyl coenzyme A dehydrogenase. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 1999, 1437, 119-123.	1.2	17
80	Molecular cloning and tissue expression of porcine Î²-defensin-1. FEBS Letters, 1998, 424, 37-40.	1.3	78