

Guolong Zhang

List of Publications by Year in descending order

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80
papers

7,735
citations

66315

42
h-index

60583

81
g-index

82
all docs

82
docs citations

82
times ranked

9242
citing authors

#	ARTICLE	IF	CITATIONS
1	A Toll-like Receptor That Prevents Infection by Uropathogenic Bacteria. <i>Science</i> , 2004, 303, 1522-1526.	6.0	909
2	Butyrate: A Double-Edged Sword for Health?. <i>Advances in Nutrition</i> , 2018, 9, 21-29.	2.9	639
3	Toll-like receptor-mediated NF- κ B activation: a phylogenetically conserved paradigm in innate immunity. <i>Journal of Clinical Investigation</i> , 2001, 107, 13-19.	3.9	633
4	Negative Regulation of Toll-like Receptor-mediated Signaling by Tollip. <i>Journal of Biological Chemistry</i> , 2002, 277, 7059-7065.	1.6	521
5	Branched Chain Amino Acids: Beyond Nutrition Metabolism. <i>International Journal of Molecular Sciences</i> , 2018, 19, 954.	1.8	413
6	Structural determinants of host defense peptides for antimicrobial activity and target cell selectivity. <i>Biochimie</i> , 2010, 92, 1236-1241.	1.3	264
7	A genome-wide screen identifies a single β -defensin gene cluster in the chicken: implications for the origin and evolution of mammalian defensins. <i>BMC Genomics</i> , 2004, 5, 56.	1.2	258
8	Identification and Functional Characterization of Three Chicken Cathelicidins with Potent Antimicrobial Activity. <i>Journal of Biological Chemistry</i> , 2006, 281, 2858-2867.	1.6	194
9	Cross-species analysis of the mammalian β -defensin gene family: presence of syntenic gene clusters and preferential expression in the male reproductive tract. <i>Physiological Genomics</i> , 2005, 23, 5-17.	1.0	191
10	Butyrate Enhances Disease Resistance of Chickens by Inducing Antimicrobial Host Defense Peptide Gene Expression. <i>PLoS ONE</i> , 2011, 6, e27225.	1.1	191
11	Nutrients Mediate Intestinal Bacteria-Mucosal Immune Crosstalk. <i>Frontiers in Immunology</i> , 2018, 9, 5.	2.2	189
12	Bridging intestinal immunity and gut microbiota by metabolites. <i>Cellular and Molecular Life Sciences</i> , 2019, 76, 3917-3937.	2.4	176
13	Oral Administration of <i>Lactobacillus fermentum</i> I5007 Favors Intestinal Development and Alters the Intestinal Microbiota in Formula-Fed Piglets. <i>Journal of Agricultural and Food Chemistry</i> , 2014, 62, 860-866.	2.4	167
14	Rapid evolution and diversification of mammalian β -defensins as revealed by comparative analysis of rodent and primate genes. <i>Physiological Genomics</i> , 2004, 20, 1-11.	1.0	145
15	Avian beta-defensin nomenclature: A community proposed update. <i>Immunology Letters</i> , 2007, 110, 86-89.	1.1	138
16	Modulation of Antimicrobial Host Defense Peptide Gene Expression by Free Fatty Acids. <i>PLoS ONE</i> , 2012, 7, e49558.	1.1	112
17	Induction of Porcine Host Defense Peptide Gene Expression by Short-Chain Fatty Acids and Their Analogs. <i>PLoS ONE</i> , 2013, 8, e72922.	1.1	106
18	Regulation of the Intestinal Barrier Function by Host Defense Peptides. <i>Frontiers in Veterinary Science</i> , 2015, 2, 57.	0.9	104

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19	Comparative biogeography of the gut microbiome between Jinhua and Landrace pigs. <i>Scientific Reports</i> , 2018, 8, 5985.	1.6	101
20	Avian Antimicrobial Host Defense Peptides: From Biology to Therapeutic Applications. <i>Pharmaceuticals</i> , 2014, 7, 220-247.	1.7	96
21	Regulation of Cathelicidin Gene Expression: Induction by Lipopolysaccharide, Interleukin-6, Retinoic Acid, and <i>Salmonella enterica</i> Serovar Typhimurium Infection. <i>Infection and Immunity</i> , 2000, 68, 5552-5558.	1.0	91
22	<i>Lactobacillus reuteri</i> I5007 Modulates Intestinal Host Defense Peptide Expression in the Model of IPEC-J2 Cells and Neonatal Piglets. <i>Nutrients</i> , 2017, 9, 559.	1.7	81
23	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. <i>Journal of Agricultural and Food Chemistry</i> , 2018, 66, 5157-5166.	2.4	79
24	Molecular cloning and tissue expression of porcine β -defensin-1. <i>FEBS Letters</i> , 1998, 424, 37-40.	1.3	78
25	Bioinformatic and expression analysis of novel porcine β -defensins. <i>Mammalian Genome</i> , 2006, 17, 332-339.	1.0	78
26	Fowlicidin-3 is an α -helical cationic host defense peptide with potent antibacterial and lipopolysaccharide-neutralizing activities. <i>FEBS Journal</i> , 2007, 274, 418-428.	2.2	77
27	Structure-activity relationships of fowlicidin-1, a cathelicidin antimicrobial peptide in chicken. <i>FEBS Journal</i> , 2006, 273, 2581-2593.	2.2	73
28	The Central Kink Region of Fowlicidin-2, an α -Helical Host Defense Peptide, Is Critically Involved in Bacterial Killing and Endotoxin Neutralization. <i>Journal of Innate Immunity</i> , 2009, 1, 268-280.	1.8	69
29	Microbial and metabolic alterations in gut microbiota of sows during pregnancy and lactation. <i>FASEB Journal</i> , 2019, 33, 4490-4501.	0.2	68
30	Canine cathelicidin (K9CATH): Gene cloning, expression, and biochemical activity of a novel pro-myeloid antimicrobial peptide. <i>Developmental and Comparative Immunology</i> , 2007, 31, 1278-1296.	1.0	66
31	Lentinan modulates intestinal microbiota and enhances barrier integrity in a piglet model challenged with lipopolysaccharide. <i>Food and Function</i> , 2019, 10, 479-489.	2.1	64
32	Gut Microbiota Is a Major Contributor to Adiposity in Pigs. <i>Frontiers in Microbiology</i> , 2018, 9, 3045.	1.5	63
33	In vitro antibacterial and hemolytic activities of crotamine, a small basic myotoxin from rattlesnake <i>Crotalus durissus</i> . <i>Journal of Antibiotics</i> , 2011, 64, 327-331.	1.0	62
34	Endoscopic, rapid near-infrared optical tomography. <i>Optics Letters</i> , 2006, 31, 2876.	1.7	54
35	Maternal milk and fecal microbes guide the spatiotemporal development of mucosa-associated microbiota and barrier function in the porcine neonatal gut. <i>BMC Biology</i> , 2019, 17, 106.	1.7	51
36	Analyses of Five Gallinacin Genes and the <i>Salmonella enterica</i> Serovar Enteritidis Response in Poultry. <i>Infection and Immunity</i> , 2006, 74, 3375-3380.	1.0	49

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37	Cloning and Characterization of the Gene for a New Epithelial β -Defensin. <i>Journal of Biological Chemistry</i> , 1999, 274, 24031-24037.	1.6	48
38	Tissue expression and developmental regulation of chicken cathelicidin antimicrobial peptides. <i>Journal of Animal Science and Biotechnology</i> , 2012, 3, 15.	2.1	47
39	Molecular cloning and characterization of equine NK-lysin. <i>Veterinary Immunology and Immunopathology</i> , 2005, 105, 163-169.	0.5	44
40	Differential regulation of human cathelicidin LL-37 by free fatty acids and their analogs. <i>Peptides</i> , 2013, 50, 129-138.	1.2	44
41	Immune regulatory activities of fowlicidin-1, a cathelicidin host defense peptide. <i>Molecular Immunology</i> , 2014, 59, 55-63.	1.0	43
42	Cyclic AMP synergizes with butyrate in promoting β -defensin 9 expression in chickens. <i>Molecular Immunology</i> , 2014, 57, 171-180.	1.0	42
43	Cloning of Porcine NRAMP1 and Its Induction by Lipopolysaccharide, Tumor Necrosis Factor Alpha, and Interleukin- 1β : Role of CD14 and Mitogen-Activated Protein Kinases. <i>Infection and Immunity</i> , 2000, 68, 1086-1093.	1.0	41
44	Dietary modulation of endogenous host defense peptide synthesis as an alternative approach to in-feed antibiotics. <i>Animal Nutrition</i> , 2018, 4, 160-169.	2.1	41
45	Association of growth rate with hormone levels and myogenic gene expression profile in broilers. <i>Journal of Animal Science and Biotechnology</i> , 2017, 8, 43.	2.1	40
46	Intestinal Microbiota Succession and Immunomodulatory Consequences after Introduction of <i>Lactobacillus reuteri</i> I5007 in Neonatal Piglets. <i>PLoS ONE</i> , 2015, 10, e0119505.	1.1	38
47	Differential Impact of Subtherapeutic Antibiotics and Ionophores on Intestinal Microbiota of Broilers. <i>Microorganisms</i> , 2019, 7, 282.	1.6	35
48	Glycine enhances muscle protein mass associated with maintaining Akt-mTOR-FOXO1 signaling and suppressing TLR4 and NOD2 signaling in piglets challenged with LPS. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016, 311, R365-R373.	0.9	34
49	Population genomics identifies patterns of genetic diversity and selection in chicken. <i>BMC Genomics</i> , 2019, 20, 263.	1.2	34
50	Roles of Biogenic Amines in Intestinal Signaling. <i>Current Protein and Peptide Science</i> , 2017, 18, 532-540.	0.7	34
51	A fowlicidin-1 analog protects mice from lethal infections induced by methicillin-resistant <i>Staphylococcus aureus</i> . <i>Peptides</i> , 2010, 31, 1225-1230.	1.2	31
52	Holly polyphenols alleviate intestinal inflammation and alter microbiota composition in lipopolysaccharide-challenged pigs. <i>British Journal of Nutrition</i> , 2020, 123, 881-891.	1.2	31
53	1,25-Dihydroxyvitamin-D3 Induces Avian β -Defensin Gene Expression in Chickens. <i>PLoS ONE</i> , 2016, 11, e0154546.	1.1	31
54	The Signal Pathway of Antibiotic Alternatives on Intestinal Microbiota and Immune Function. <i>Current Protein and Peptide Science</i> , 2016, 17, 785-796.	0.7	31

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55	High Throughput Screening for Natural Host Defense Peptide-Inducing Compounds as Novel Alternatives to Antibiotics. <i>Frontiers in Cellular and Infection Microbiology</i> , 2018, 8, 191.	1.8	29
56	Genomic data for 78 chickens from 14 populations. <i>GigaScience</i> , 2017, 6, 1-5.	3.3	28
57	Linkage between the intestinal microbiota and residual feed intake in broiler chickens. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 22.	2.1	28
58	Molecular and functional characterization of bovine β -defensin-1. <i>Veterinary Immunology and Immunopathology</i> , 2006, 113, 181-190.	0.5	23
59	Necroptosis Underlies Hepatic Damage in a Piglet Model of Lipopolysaccharide-Induced Sepsis. <i>Frontiers in Immunology</i> , 2021, 12, 633830.	2.2	23
60	Transcriptional Regulation of Antimicrobial Host Defense Peptides. <i>Current Protein and Peptide Science</i> , 2015, 16, 672-679.	0.7	23
61	Medium-Chain Triglycerides Attenuate Liver Injury in Lipopolysaccharide-Challenged Pigs by Inhibiting Necroptotic and Inflammatory Signaling Pathways. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3697.	1.8	22
62	Chicken Intestinal Mycobiome: Initial Characterization and Its Response to Bacitracin Methylene Disalicylate. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	20
63	Identification of an Intestinal Microbiota Signature Associated With the Severity of Necrotic Enteritis. <i>Frontiers in Microbiology</i> , 2021, 12, 703693.	1.5	20
64	Identity of heart and liver l-3-hydroxyacyl coenzyme A dehydrogenase. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 1999, 1437, 119-123.	1.2	17
65	Butyrate in combination with forskolin alleviates necrotic enteritis, increases feed efficiency, and improves carcass composition of broilers. <i>Journal of Animal Science and Biotechnology</i> , 2022, 13, 3.	2.1	17
66	Biogeography, succession, and origin of the chicken intestinal mycobiome. <i>Microbiome</i> , 2022, 10, 55.	4.9	17
67	Rattusin, an Intestinal β -Defensin-Related Peptide in Rats with a Unique Cysteine Spacing Pattern and Salt-Insensitive Antibacterial Activities. <i>Antimicrobial Agents and Chemotherapy</i> , 2013, 57, 1823-1831.	1.4	15
68	Development of a Cell-Based High-Throughput Screening Assay to Identify Porcine Host Defense Peptide-Inducing Compounds. <i>Journal of Immunology Research</i> , 2018, 2018, 1-13.	0.9	14
69	Butyrate and Forskolin Augment Host Defense, Barrier Function, and Disease Resistance Without Eliciting Inflammation. <i>Frontiers in Nutrition</i> , 2021, 8, 778424.	1.6	13
70	Discovery of natural products capable of inducing porcine host defense peptide gene expression using cell-based high throughput screening. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 14.	2.1	11
71	Butyrate, Forskolin, and Lactose Synergistically Enhance Disease Resistance by Inducing the Expression of the Genes Involved in Innate Host Defense and Barrier Function. <i>Antibiotics</i> , 2021, 10, 1175.	1.5	9
72	Natural Cyclooxygenase-2 Inhibitors Synergize With Butyrate to Augment Chicken Host Defense Peptide Gene Expression. <i>Frontiers in Immunology</i> , 2022, 13, 819222.	2.2	7

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73	Synergistic Induction of Chicken Antimicrobial Host Defense Peptide Gene Expression by Butyrate and Sugars. <i>Frontiers in Microbiology</i> , 2021, 12, 781649.	1.5	7
74	Docosahexaenoic acid alleviates cell injury and improves barrier function by suppressing necroptosis signalling in TNF- α -challenged porcine intestinal epithelial cells. <i>Innate Immunity</i> , 2020, 26, 653-665.	1.1	6
75	Perturbations of the ileal mycobiota by necrotic enteritis in broiler chickens. <i>Journal of Animal Science and Biotechnology</i> , 2021, 12, 107.	2.1	6
76	Epigenetic Regulation of Host Defense Peptide Synthesis: Synergy Between Histone Deacetylase Inhibitors and DNA/Histone Methyltransferase Inhibitors. <i>Frontiers in Immunology</i> , 2022, 13, 874706.	2.2	6
77	Near-infrared optical tomography: endoscopic imaging approach. , 2007, , .		4
78	Lysine-Specific Demethylase 1 in Energy Metabolism: A Novel Target for Obesity. <i>Journal of Nutrition</i> , 2022, 152, 1611-1620.	1.3	4
79	Dietary Bacitracin Methylene Disalicylate Improves Growth Performance by Mediating the Gut Microbiota in Broilers. <i>Antibiotics</i> , 2022, 11, 818.	1.5	3
80	High-Throughput Identification of Epigenetic Compounds to Enhance Chicken Host Defense Peptide Gene Expression. <i>Antibiotics</i> , 2022, 11, 933.	1.5	3