

# Hong Wei

## List of Publications by Year in descending order

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93  
papers

7,397  
citations

101543

36  
h-index

60623

81  
g-index

97  
all docs

97  
docs citations

97  
times ranked

9878  
citing authors

#	ARTICLE	IF	CITATIONS
1	Gut bacteria selectively promoted by dietary fibers alleviate type 2 diabetes. <i>Science</i> , 2018, 359, 1151-1156.	12.6	1,521
2	Inactivation of porcine endogenous retrovirus in pigs using CRISPR-Cas9. <i>Science</i> , 2017, 357, 1303-1307.	12.6	570
3	Gavage of Fecal Samples From Patients With Colorectal Cancer Promotes Intestinal Carcinogenesis in Germ-Free and Conventional Mice. <i>Gastroenterology</i> , 2017, 153, 1621-1633.e6.	1.3	446
4	The gut microbiome from patients with schizophrenia modulates the glutamate-glutamine-GABA cycle and schizophrenia-relevant behaviors in mice. <i>Science Advances</i> , 2019, 5, eaau8317.	10.3	446
5	Dietary cholesterol drives fatty liver-associated liver cancer by modulating gut microbiota and metabolites. <i>Gut</i> , 2021, 70, 761-774.	12.1	382
6	Dietary Modulation of Gut Microbiota Contributes to Alleviation of Both Genetic and Simple Obesity in Children. <i>EBioMedicine</i> , 2015, 2, 968-984.	6.1	306
7	High-Fat Diet Promotes Colorectal Tumorigenesis Through Modulating Gut Microbiota and Metabolites. <i>Gastroenterology</i> , 2022, 162, 135-149.e2.	1.3	197
8	Ginseng polysaccharides alter the gut microbiota and kynurenine/tryptophan ratio, potentiating the antitumour effect of anti-programmed cell death 1/programmed cell death ligand 1 (anti-PD-1/PD-L1) immunotherapy. <i>Gut</i> , 2022, 71, 734-745.	12.1	177
9	Gut microbiota regulates mouse behaviors through glucocorticoid receptor pathway genes in the hippocampus. <i>Translational Psychiatry</i> , 2018, 8, 187.	4.8	174
10	Commensal bacteria direct selective cargo sorting to promote symbiosis. <i>Nature Immunology</i> , 2015, 16, 918-926.	14.5	172
11	Role of the Gut Microbiome in Modulating Arthritis Progression in Mice. <i>Scientific Reports</i> , 2016, 6, 30594.	3.3	169
12	Microbiota Modulate Anxiety-Like Behavior and Endocrine Abnormalities in Hypothalamic-Pituitary-Adrenal Axis. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017, 7, 489.	3.9	160
13	Remodelling of the gut microbiota by hyperactive NLRP3 induces regulatory T cells to maintain homeostasis. <i>Nature Communications</i> , 2017, 8, 1896.	12.8	147
14	Melatonin alleviates weaning stress in mice: Involvement of intestinal microbiota. <i>Journal of Pineal Research</i> , 2018, 64, e12448.	7.4	133
15	Gut epithelial TSC1/mTOR controls RIPK3-dependent necroptosis in intestinal inflammation and cancer. <i>Journal of Clinical Investigation</i> , 2020, 130, 2111-2128.	8.2	111
16	Efficient generation of gene-modified pigs via injection of zygote with Cas9/sgRNA. <i>Scientific Reports</i> , 2015, 5, 8256.	3.3	104
17	Gut microbiota modulates the inflammatory response and cognitive impairment induced by sleep deprivation. <i>Molecular Psychiatry</i> , 2021, 26, 6277-6292.	7.9	96
18	Green Tea Polyphenols Modulate Colonic Microbiota Diversity and Lipid Metabolism in High-Fat Diet Treated HFA Mice. <i>Journal of Food Science</i> , 2018, 83, 864-873.	3.1	95

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19	Aspirin Reduces Colorectal Tumor Development in Mice and Gut Microbes Reduce its Bioavailability and Chemopreventive Effects. <i>Gastroenterology</i> , 2020, 159, 969-983.e4.	1.3	86
20	Cigarette smoke promotes colorectal cancer through modulation of gut microbiota and related metabolites. <i>Gut</i> , 2022, 71, 2439-2450.	12.1	86
21	TRIM67 Activates p53 to Suppress Colorectal Cancer Initiation and Progression. <i>Cancer Research</i> , 2019, 79, 4086-4098.	0.9	80
22	Effects of gut microbiota on the microRNA and mRNA expression in the hippocampus of mice. <i>Behavioural Brain Research</i> , 2017, 322, 34-41.	2.2	77
23	Production of Human Albumin in Pigs Through CRISPR/Cas9-Mediated Knockin of Human cDNA into Swine Albumin Locus in the Zygotes. <i>Scientific Reports</i> , 2015, 5, 16705.	3.3	73
24	Intestinal Microbiota-Derived GABA Mediates Interleukin-17 Expression during Enterotoxigenic <i>Escherichia coli</i> Infection. <i>Frontiers in Immunology</i> , 2016, 7, 685.	4.8	70
25	Metabolite identification in fecal microbiota transplantation mouse livers and combined proteomics with chronic unpredictable mild stress mouse livers. <i>Translational Psychiatry</i> , 2018, 8, 34.	4.8	70
26	Oral bacteria colonize and compete with gut microbiota in gnotobiotic mice. <i>International Journal of Oral Science</i> , 2019, 11, 10.	8.6	69
27	Alteration of gut microbiota induced by DPP-4i treatment improves glucose homeostasis. <i>EBioMedicine</i> , 2019, 44, 665-674.	6.1	66
28	Efficient Generation of Gene-Modified Pigs Harboring Precise Orthologous Human Mutation via CRISPR/Cas9-Induced Homology-Directed Repair in Zygotes. <i>Human Mutation</i> , 2016, 37, 110-118.	2.5	63
29	A Phase II Randomized Clinical Trial and Mechanistic Studies Using Improved Probiotics to Prevent Oral Mucositis Induced by Concurrent Radiotherapy and Chemotherapy in Nasopharyngeal Carcinoma. <i>Frontiers in Immunology</i> , 2021, 12, 618150.	4.8	53
30	Impact of the Consumption of Tea Polyphenols on Early Atherosclerotic Lesion Formation and Intestinal Bifidobacteria in High-Fat-Fed ApoE <sup>-/-</sup> Mice. <i>Frontiers in Nutrition</i> , 2016, 3, 42.	3.7	52
31	Microbiota Modulates Behavior and Protein Kinase C mediated cAMP response element-binding protein Signaling. <i>Scientific Reports</i> , 2016, 6, 29998.	3.3	51
32	Fecal Microbiome Transplantation from Children with Autism Spectrum Disorder Modulates Tryptophan and Serotonergic Synapse Metabolism and Induces Altered Behaviors in Germ-Free Mice. <i>MSystems</i> , 2021, 6, .	3.8	49
33	Seasonal shift of the gut microbiome synchronizes host peripheral circadian rhythm for physiological adaptation to a low-fat diet in the giant panda. <i>Cell Reports</i> , 2022, 38, 110203.	6.4	49
34	The effect of green tea polyphenols on gut microbial diversity and fat deposition in C57BL/6J HFA mice. <i>Food and Function</i> , 2016, 7, 4956-4966.	4.6	45
35	Enterogenous bacterial glycolipids are required for the generation of natural killer T cells mediated liver injury. <i>Scientific Reports</i> , 2016, 6, 36365.	3.3	43
36	Intestinal lysozyme liberates Nod1 ligands from microbes to direct insulin trafficking in pancreatic beta cells. <i>Cell Research</i> , 2019, 29, 516-532.	12.0	43

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37	Apolipoprotein E deficiency accelerates atherosclerosis development in miniature pigs. <i>DMM Disease Models and Mechanisms</i> , 2018, 11, .	2.4	40
38	The Gut Epithelial Receptor LRRC19 Promotes the Recruitment of Immune Cells and Gut Inflammation. <i>Cell Reports</i> , 2016, 14, 695-707.	6.4	36
39	Proteomic analysis of the skin of Chinese giant salamander ( <i>Andrias davidianus</i> ). <i>Journal of Proteomics</i> , 2015, 119, 196-208.	2.4	35
40	Rip2 Is Required for Nod2-Mediated Lysozyme Sorting in Paneth Cells. <i>Journal of Immunology</i> , 2017, 198, 3729-3736.	0.8	35
41	Proteomics analysis of the gut-brain axis in a gut microbiota-dysbiosis model of depression. <i>Translational Psychiatry</i> , 2021, 11, 568.	4.8	34
42	Absence of gut microbiota during early life affects anxiolytic Behaviors and monoamine neurotransmitters system in the hippocampal of mice. <i>Journal of the Neurological Sciences</i> , 2019, 400, 160-168.	0.6	33
43	Pilot study of large-scale production of mutant pigs by ENU mutagenesis. <i>ELife</i> , 2017, 6, .	6.0	32
44	Commensal Bacteria-Dependent CD8 <sup>+</sup> T Cells in the Intestinal Epithelium Produce Antimicrobial Peptides. <i>Frontiers in Immunology</i> , 2018, 9, 1065.	4.8	32
45	Efficient generation of B2m-null pigs via injection of zygote with TALENs. <i>Scientific Reports</i> , 2016, 6, 38854.	3.3	31
46	Creation of miniature pig model of human Waardenburg syndrome type 2A by ENU mutagenesis. <i>Human Genetics</i> , 2017, 136, 1463-1475.	3.8	28
47	Dysbiosis of the rat vagina is efficiently rescued by vaginal microbiota transplantation or probiotic combination. <i>International Journal of Antimicrobial Agents</i> , 2021, 57, 106277.	2.5	27
48	Stachyose increases intestinal barrier through <i>Akkermansia muciniphila</i> and reduces gut inflammation in germ-free mice after human fecal transplantation. <i>Food Research International</i> , 2020, 137, 109288.	6.2	26
49	Comprehensive analysis of the lysine acetylome and succinylome in the hippocampus of gut microbiota-dysbiosis mice. <i>Journal of Advanced Research</i> , 2021, 30, 27-38.	9.5	26
50	The Interplay between Androgen and Gut Microbiota: Is There a Microbiota-Gut-Testis Axis. <i>Reproductive Sciences</i> , 2022, 29, 1674-1684.	2.5	25
51	Integrated phosphoproteomic and metabolomic profiling reveals perturbed pathways in the hippocampus of gut microbiota dysbiosis mice. <i>Translational Psychiatry</i> , 2020, 10, 346.	4.8	24
52	Squalene Epoxidase Induces Nonalcoholic Steatohepatitis Via Binding to Carbonic Anhydrase III and is a Therapeutic Target. <i>Gastroenterology</i> , 2021, 160, 2467-2482.e3.	1.3	24
53	<p><strong>Alterations Of Glycerophospholipid And Fatty Acyl Metabolism In Multiple Brain Regions Of Schizophrenia Microbiota Recipient Mice</strong></p><p><strong>. Neuropsychiatric Disease and Treatment, 2019, Volume 15, 3219-3229.</strong></p>	2.2	22
54	Colonization of fecal microbiota from patients with neonatal necrotizing enterocolitis exacerbates intestinal injury in germfree mice subjected to necrotizing enterocolitis-induction protocol via alterations in butyrate and regulatory T cells. <i>Journal of Translational Medicine</i> , 2021, 19, 510.	4.4	22

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55	A reference gene set construction using RNA-seq of multiple tissues of Chinese giant salamander, <i>Andrias davidianus</i> . <i>GigaScience</i> , 2017, 6, 1-7.	6.4	21
56	A novel nano-silver coated and hydrogel-impregnated polyurethane nanofibrous mesh for ventral hernia repair. <i>RSC Advances</i> , 2016, 6, 90571-90578.	3.6	20
57	A 2-bp insertion (c.67_68insCC) in MC1R causes recessive white coat color in Bama miniature pigs. <i>Journal of Genetics and Genomics</i> , 2017, 44, 215-217.	3.9	20
58	Key Genes and Pathways Associated With Inner Ear Malformation in SOX10 <sup>p.R109W</sup> Mutation Pigs. <i>Frontiers in Molecular Neuroscience</i> , 2018, 11, 181.	2.9	20
59	Sema3A - mediated modulation of NR1D1 expression may be involved in the regulation of axonal guidance signaling by the microbiota. <i>Life Sciences</i> , 2019, 223, 54-61.	4.3	19
60	The Meganuclease I-SceI Containing Nuclear Localization Signal (NLS-I-SceI) Efficiently Mediated Mammalian Germline Transgenesis via Embryo Cytoplasmic Microinjection. <i>PLoS ONE</i> , 2014, 9, e108347.	2.5	17
61	Extracellular Matrix and Oxidative Phosphorylation: Important Role in the Regulation of Hypothalamic Function by Gut Microbiota. <i>Frontiers in Genetics</i> , 2020, 11, 520.	2.3	16
62	Research on oral microbiota of monozygotic twins with discordant caries experience - in vitro and in vivo study. <i>Scientific Reports</i> , 2018, 8, 7267.	3.3	15
63	Microbial regulation of a lincRNA-miRNA-mRNA network in the mouse hippocampus. <i>Epigenomics</i> , 2020, 12, 1377-1387.	2.1	13
64	Microtubule associated protein 9 inhibits liver tumorigenesis by suppressing ERCC3. <i>EBioMedicine</i> , 2020, 53, 102701.	6.1	12
65	Carrageenan oligosaccharides and associated carrageenan-degrading bacteria induce intestinal inflammation in germ-free mice. <i>Journal of Genetics and Genomics</i> , 2021, 48, 815-824.	3.9	12
66	Expression of Bama Minipig and Human CYP3A Enzymes: Comparison of the Catalytic Characteristics with Each Other and Their Liver Microsomes. <i>Drug Metabolism and Disposition</i> , 2015, 43, 1336-1340.	3.3	11
67	DNA repair and replication links to pluripotency and differentiation capacity of pig iPS cells. <i>PLoS ONE</i> , 2017, 12, e0173047.	2.5	11
68	MAP9 Loss Triggers Chromosomal Instability, Initiates Colorectal Tumorigenesis, and Is Associated with Poor Survival of Patients with Colorectal Cancer. <i>Clinical Cancer Research</i> , 2020, 26, 746-757.	7.0	11
69	Attenuated Salmonella engineered with an apoptosis-inducing factor (AIF) eukaryotic expressing system enhances its anti-tumor effect in melanoma in vitro and in vivo. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 3517-3528.	3.6	11
70	ZNF545 loss promotes ribosome biogenesis and protein translation to initiate colorectal tumorigenesis in mice. <i>Oncogene</i> , 2021, 40, 6590-6600.	5.9	11
71	A harlequin ichthyosis pig model with a novel ABCA12 mutation can be rescued by acitretin treatment. <i>Journal of Molecular Cell Biology</i> , 2019, 11, 1029-1041.	3.3	10
72	Combination of an engineered <i>Lactococcus lactis</i> expressing CXCL12 with light-emitting diode yellow light as a treatment for scalded skin in mice. <i>Microbial Biotechnology</i> , 2021, 14, 2090-2100.	4.2	10

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73	Correlation between the regulation of intestinal bacteriophages by green tea polyphenols and the flora diversity in SPF mice. <i>Food and Function</i> , 2022, 13, 2952-2965.	4.6	8
74	Transcription analysis of cochlear development in minipigs. <i>Acta Oto-Laryngologica</i> , 2017, 137, 1166-1173.	0.9	7
75	Fecal microbiota from children with vitamin A deficiency impair colonic barrier function in germ-free mice: The possible role of alternative bile acid metabolites. <i>Nutrition</i> , 2021, 90, 111274.	2.4	7
76	Hypercholesterolemia in pregnant mice increases the susceptibility to atherosclerosis in adult life. <i>Vascular</i> , 2014, 22, 328-335.	0.9	6
77	Granulocyte colony-stimulating factor decreases the Th1/Th2 ratio in peripheral blood mononuclear cells from patients with chronic immune thrombocytopenic purpura in vitro. <i>Thrombosis Research</i> , 2016, 148, 76-84.	1.7	6
78	Vaginal Probiotic <i>Lactobacillus crispatus</i> Seems to Inhibit Sperm Activity and Subsequently Reduces Pregnancies in Rat. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 705690.	3.7	6
79	Production of gene-edited pigs harboring orthologous human mutations via double cutting by CRISPR/Cas9 with long single-stranded DNAs as homology-directed repair templates by zygote injection. <i>Transgenic Research</i> , 2020, 29, 587-598.	2.4	5
80	Profiling of the viable bacterial and fungal microbiota in fermented feeds using single-molecule real-time sequencing. <i>Journal of Animal Science</i> , 2020, 98, .	0.5	5
81	&lt;p&gt;Commensal Microbiota Regulation of Metabolic Networks During Olfactory Dysfunction in Mice&lt;/p&gt;. <i>Neuropsychiatric Disease and Treatment</i> , 2020, Volume 16, 761-769.	2.2	4
82	Effect of a Humanized Diet Profile on Colonization Efficiency and Gut Microbial Diversity in Human Flora-Associated Mice. <i>Frontiers in Nutrition</i> , 2021, 8, 633738.	3.7	4
83	Strengthening the functional research on the interaction between host genes and microbiota. <i>Science China Life Sciences</i> , 2020, 63, 929-932.	4.9	3
84	Normal Electrocardiogram of Bama Miniature Pigs ( <i>Sus scrofa domestica</i> ). <i>Journal of the American Association for Laboratory Animal Science</i> , 2016, 55, 152-4.	1.2	3
85	Application of germ-free NOD-scid IL2r $\gamma$ null mice as a humanized model for tumor microbiome precision medicine. <i>Science China Life Sciences</i> , 2021, 64, 644-647.	4.9	2
86	Overexpression of NPC1L1 in the livers of transgenic Bama miniature pigs accelerates lipid peroxidation. <i>Genes and Genomics</i> , 2015, 37, 183-191.	1.4	1
87	Data from proteomic analysis of the skin of Chinese giant salamander ( <i>Andrias davidianus</i> ). <i>Data in Brief</i> , 2015, 3, 99-102.	1.0	1
88	Nucleus transfer efficiency of ear fibroblast cells isolated from Bama miniature pigs at various ages. <i>Journal of Huazhong University of Science and Technology [Medical Sciences]</i> , 2015, 35, 585-590.	1.0	1
89	Regulation of Gut Microbiota Disrupts the Glucocorticoid Receptor Pathway and Inflammation-related Pathways in the Mouse Hippocampus. <i>Experimental Neurobiology</i> , 2021, 30, 59-72.	1.6	1
90	Phenotypic similarities in pigs with SOX10 and SOX10 mutations implied the correlation of SOX10 haploinsufficiency with Waardenburg syndrome. <i>Journal of Genetics and Genomics</i> , 2020, 47, 770-780.	3.9	1

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91	Proteomic Profiling of Lysine Acetylation Indicates Mitochondrial Dysfunction in the Hippocampus of Gut Microbiota-Absent Mice. <i>Frontiers in Molecular Neuroscience</i> , 2021, 14, 594332.	2.9	1
92	Oral Administration of Bacterial Î² Cell Expansion Factor A (BefA) Alleviates Diabetes in Mice with Type 1 and Type 2 Diabetes. <i>Oxidative Medicine and Cellular Longevity</i> , 2022, 2022, 1-17.	4.0	0
93	Humanized Germ-Free Mice for Investigating the Intervention Effect of Commensal Microbiome on Cancer Immunotherapy. <i>Antioxidants and Redox Signaling</i> , 2022, 37, 1291-1302.	5.4	0