Xi Cheng

List of Publications by Year
in descending order

52 papers	1,851 citations	471509 17 h-index	289244 40 g-index
52 all docs	52 docs citations	52 times ranked	2892 citing authors

#	Article	IF	Citations
1	Effects of antibiotic treatment on microbiota, viral transmission and viral pathogenesis of MoMuLV ts1 infected BALB/c mice. PLoS ONE, 2022, 17, e0261689.	2.5	0
2	Beyond the Gastrointestinal Tract: Oral and Sex-Specific Skin Microbiota Are Associated with Hypertension in Rats with Genetic Disparities. Physiological Genomics, 2022, , .	2.3	2
3	Identification of a Gut Commensal That Compromises the Blood Pressure-Lowering Effect of Ester Angiotensin-Converting Enzyme Inhibitors. Hypertension, 2022, 79, 1591-1601.	2.7	19
4	Gut microbiome-based supervised machine learning for clinical diagnosis of inflammatory bowel diseases. American Journal of Physiology - Renal Physiology, 2021, 320, G328-G337.	3.4	36
5	FPR-1 (Formyl Peptide Receptor-1) Activation Promotes Spontaneous, Premature Hypertension in Dahl Salt-Sensitive Rats. Hypertension, 2021, 77, 1191-1202.	2.7	7
6	Gut Microbiota Accelerates Bone Growth and Marrow Adiposity of the Adolescent Gnotobiotic Rat. FASEB Journal, 2021, 35, .	0.5	0
7	I ncreased Host Energy Metabolism in the Proximal Colonâ€Microbiota Interface Elevates Blood Pressure. FASEB Journal, 2021, 35, .	0.5	0
8	Metabolomics reveal dynamic host responses in lipid, amino acid, and energy metabolism after acute exposure of gut microbiota in germâ€free rats. FASEB Journal, 2021, 35, .	0.5	0
9	Depletion of Esteraseâ€Harboring Bacteria Increases Antihypertensive Efficacy of ACE Inhibitor Quinapril. FASEB Journal, 2021, 35, .	0.5	0
10	Machine Learning of Gut Microbiome Composition for Diagnostic Classification of Inflammatory Bowel Diseases. FASEB Journal, 2021, 35, .	0.5	0
11	Sex Differences in Gut Microbiome Dysbiosis between Individuals with or without Cardiovascular Disease. FASEB Journal, 2021, 35, .	0.5	0
12	Sexual dimorphism in the progression of type 2 diabetic kidney disease in T2DN rats. Physiological Genomics, 2021, 53, 223-234.	2.3	7
13	Application of Artificial Intelligence in Cardiovascular Medicine. , 2021, 11, 1-12.		5
14	Ketone body Î²-hydroxybutyrate is an autophagy-dependent vasodilator. JCI Insight, 2021, 6, .	5.0	37
15	In Vivo CRISPR/Cas9-Based Targeted Disruption and Knockin of a Long Noncoding RNA. Methods in Molecular Biology, 2021, 2254, 305-321.	0.9	1
16	Reconstitution of the host holobiont in germ-free born male rats acutely increases bone growth and affects marrow cellular content. Physiological Genomics, 2021, 53, 518-533.	2.3	1
17	Microbial Reconstitution Reverses Early Female Puberty Induced by Maternal High-fat Diet During Lactation. Endocrinology, 2020, 161, .	2.8	20
18	Vertical selection for nuclear and mitochondrial genomes shapes gut microbiota and modifies risks for complex diseases. Physiological Genomics, 2020, 52, 1-14.	2.3	9

#	Article	IF	Citations
19	Single Nucleotide Polymorphism of Spp2 Confers Sex-Specific Effects on Blood Pressure and Bone Health. Hypertension, 2020, 76, e31-e33.	2.7	1
20	Microbiota Introduced to Germ-Free Rats Restores Vascular Contractility and Blood Pressure. Hypertension, 2020, 76, 1847-1855.	2.7	42
21	Machine learning-based classification and diagnosis of clinical cardiomyopathies. Physiological Genomics, 2020, 52, 391-400.	2.3	15
22	Machine Learning Strategy for Gut Microbiome-Based Diagnostic Screening of Cardiovascular Disease. Hypertension, 2020, 76, 1555-1562.	2.7	65
23	Metabolites and Hypertension: Insights into Hypertension as a Metabolic Disorder. Hypertension, 2020, 75, 1386-1396.	2.7	32
24	Gnotobiotic Rats Reveal That Gut Microbiota Regulates Colonic mRNA of Ace2 , the Receptor for SARS-CoV-2 Infectivity. Hypertension, 2020, 76, e1-e3.	2.7	63
25	Identification of Upstream Transcriptional Regulators of Ischemic Cardiomyopathy Using Cardiac RNA-Seq Meta-Analysis. International Journal of Molecular Sciences, 2020, 21, 3472.	4.1	9
26	Diurnal Timing Dependent Alterations in Gut Microbial Composition Are Synchronously Linked to Salt-Sensitive Hypertension and Renal Damage. Hypertension, 2020, 76, 59-72.	2.7	21
27	Fermentable fibers induce rapid macro- and micronutrient depletion in Toll-like receptor 5-deficient mice. American Journal of Physiology - Renal Physiology, 2020, 318, G955-G965.	3.4	3
28	Artificial intelligence and machine learning to fight COVID-19. Physiological Genomics, 2020, 52, 200-202.	2.3	431
29	Exposure to Amoxicillin in Early Life Is Associated With Changes in Gut Microbiota and Reduction in Blood Pressure: Findings From a Study on Rat Dams and Offspring. Journal of the American Heart Association, 2020, 9, e014373.	3.7	31
30	Meta-Analysis of Dilated Cardiomyopathy Using Cardiac RNA-Seq Transcriptomic Datasets. Genes, 2020, 11, 60.	2.4	30
31	Genetic predisposition for increased red blood cell distribution width is an early risk factor for cardiovascular and renal comorbidities. DMM Disease Models and Mechanisms, 2020, 13, .	2.4	4
32	Intrinsic Exercise Capacity and Mitochondrial DNA Lead to Opposing Vascular-Associated Risks. Function, 2020, 2, zqaa029.	2.3	5
33	Visualising reactive oxygen species in live mammals and revealing of ROS-related system. Free Radical Research, 2019, 53, 1073-1083.	3.3	4
34	QTL mapping of rat blood pressure loci on RNO1 within a homologous region linked to human hypertension on HSA15. PLoS ONE, 2019, 14, e0221658.	2.5	5
35	Microbiota fermentation-NLRP3 axis shapes the impact of dietary fibres on intestinal inflammation. Gut, 2019, 68, 1801-1812.	12.1	157
36	Enhancement of the gut barrier integrity by a microbial metabolite through the Nrf2 pathway. Nature Communications, 2019, 10, 89.	12.8	420

#	Article	IF	Citations
37	Amoxicillinâ€responsive alterations in commensal gut microbiota are associated with lowering of blood pressure in young hypertensive rats. FASEB Journal, 2019, 33, 691.3.	0.5	0
38	Saltâ€Responsive Metabolite, betaâ€Hydroxybutyrate, Attenuates Hypertension. FASEB Journal, 2019, 33, 866.4.	0.5	0
39	1000 human genomes carry widespread signatures of GC biased gene conversion. BMC Genomics, 2018, 19, 256.	2.8	10
40	Fine mapping of epistatic genetic determinants of blood pressure on rat chromosome 5. Journal of Hypertension, 2018, 36, 1486-1491.	0.5	2
41	Attenuation of Microbiotal Dysbiosis and Hypertension in a CRISPR/Cas9 Gene Ablation Rat Model of GPER1. Hypertension, 2018, 72, 1125-1132.	2.7	50
42	Salt-Responsive Metabolite, Î²-Hydroxybutyrate, Attenuates Hypertension. Cell Reports, 2018, 25, 677-689.e4.	6.4	117
43	Targeted disruption of regulated endocrine-specific protein (Resp18) in Dahl SS/Mcw rats aggravates salt-induced hypertension and renal injury. Physiological Genomics, 2018, 50, 369-375.	2.3	13
44	Salt-sensitive (Rapp) rats from Envigo spontaneously develop accelerated hypertension independent of ovariectomy on a low-sodium diet. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R915-R924.	1.8	12
45	Disparate effects of antibiotics on hypertension. Physiological Genomics, 2018, 50, 837-845.	2.3	67
46	Circular RNAs in rat models of cardiovascular and renal diseases. Physiological Genomics, 2017, 49, 484-490.	2.3	33
47	Positional cloning of quantitative trait nucleotides for blood pressure and cardiac QT-interval by targeted CRISPR/Cas9 editing of a novel long non-coding RNA. PLoS Genetics, 2017, 13, e1006961.	3.5	26
48	High-resolution mapping of a novel rat blood pressure locus on chromosome 9 to a region containing the Spp2 gene and colocalization of a QTL for bone mass. Physiological Genomics, 2016, 48, 409-419.	2.3	8
49	Pleiotropic Effect of a High Resolution Mapped Blood Pressure QTL on Tumorigenesis. PLoS ONE, 2016, 11, e0153519.	2.5	6
50	Inference of Distant Genetic Relations in Humans Using â€œ1000 Genomesâ€• Genome Biology and Evolution, 2015, 7, 481-492.	2.5	15
51	Genetics of Hypertension. Colloquium Series on Integrated Systems Physiology From Molecule To Function, 2015, 7, 1-56.	0.3	0
52	Revealing acupuncture meridian-like system by reactive oxygen species visualization. Bioscience Hypotheses, 2009, 2, 443-445.	0.2	10