

Xi Cheng

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

1,851
citations

471371

17
h-index

289141

40
g-index

52
all docs

52
docs citations

52
times ranked

2892
citing authors

#	ARTICLE	IF	CITATIONS
1	Artificial intelligence and machine learning to fight COVID-19. <i>Physiological Genomics</i> , 2020, 52, 200-202.	1.0	431
2	Enhancement of the gut barrier integrity by a microbial metabolite through the Nrf2 pathway. <i>Nature Communications</i> , 2019, 10, 89.	5.8	420
3	Microbiota fermentation-NLRP3 axis shapes the impact of dietary fibres on intestinal inflammation. <i>Gut</i> , 2019, 68, 1801-1812.	6.1	157
4	Salt-Responsive Metabolite, β -Hydroxybutyrate, Attenuates Hypertension. <i>Cell Reports</i> , 2018, 25, 677-689.e4.	2.9	117
5	Disparate effects of antibiotics on hypertension. <i>Physiological Genomics</i> , 2018, 50, 837-845.	1.0	67
6	Machine Learning Strategy for Gut Microbiome-Based Diagnostic Screening of Cardiovascular Disease. <i>Hypertension</i> , 2020, 76, 1555-1562.	1.3	65
7	Gnotobiotic Rats Reveal That Gut Microbiota Regulates Colonic mRNA of <i>Ace2</i> , the Receptor for SARS-CoV-2 Infectivity. <i>Hypertension</i> , 2020, 76, e1-e3.	1.3	63
8	Attenuation of Microbial Dysbiosis and Hypertension in a CRISPR/Cas9 Gene Ablation Rat Model of <i>GP1</i> . <i>Hypertension</i> , 2018, 72, 1125-1132.	1.3	50
9	Microbiota Introduced to Germ-Free Rats Restores Vascular Contractility and Blood Pressure. <i>Hypertension</i> , 2020, 76, 1847-1855.	1.3	42
10	Ketone body β -hydroxybutyrate is an autophagy-dependent vasodilator. <i>JCI Insight</i> , 2021, 6, .	2.3	37
11	Gut microbiome-based supervised machine learning for clinical diagnosis of inflammatory bowel diseases. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, G328-G337.	1.6	36
12	Circular RNAs in rat models of cardiovascular and renal diseases. <i>Physiological Genomics</i> , 2017, 49, 484-490.	1.0	33
13	Metabolites and Hypertension: Insights into Hypertension as a Metabolic Disorder. <i>Hypertension</i> , 2020, 75, 1386-1396.	1.3	32
14	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. <i>Journal of the American Heart Association</i> , 2020, 9, e014373.	1.6	31
15	Meta-Analysis of Dilated Cardiomyopathy Using Cardiac RNA-Seq Transcriptomic Datasets. <i>Genes</i> , 2020, 11, 60.	1.0	30
16	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. <i>PLoS Genetics</i> , 2017, 13, e1006961.	1.5	26
17	Diurnal Timing Dependent Alterations in Gut Microbial Composition Are Synchronously Linked to Salt-Sensitive Hypertension and Renal Damage. <i>Hypertension</i> , 2020, 76, 59-72.	1.3	21
18	Microbial Reconstitution Reverses Early Female Puberty Induced by Maternal High-fat Diet During Lactation. <i>Endocrinology</i> , 2020, 161, .	1.4	20

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19	Identification of a Gut Commensal That Compromises the Blood Pressure-Lowering Effect of Ester Angiotensin-Converting Enzyme Inhibitors. <i>Hypertension</i> , 2022, 79, 1591-1601.	1.3	19
20	Inference of Distant Genetic Relations in Humans Using ≈ 1000 Genomes. <i>Genome Biology and Evolution</i> , 2015, 7, 481-492.	1.1	15
21	Machine learning-based classification and diagnosis of clinical cardiomyopathies. <i>Physiological Genomics</i> , 2020, 52, 391-400.	1.0	15
22	Targeted disruption of regulated endocrine-specific protein (Resp18) in Dahl SS/Mcw rats aggravates salt-induced hypertension and renal injury. <i>Physiological Genomics</i> , 2018, 50, 369-375.	1.0	13
23	Salt-sensitive (Rapp) rats from Envigo spontaneously develop accelerated hypertension independent of ovariectomy on a low-sodium diet. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R915-R924.	0.9	12
24	Revealing acupuncture meridian-like system by reactive oxygen species visualization. <i>Bioscience Hypotheses</i> , 2009, 2, 443-445.	0.2	10
25	1000 human genomes carry widespread signatures of GC biased gene conversion. <i>BMC Genomics</i> , 2018, 19, 256.	1.2	10
26	Vertical selection for nuclear and mitochondrial genomes shapes gut microbiota and modifies risks for complex diseases. <i>Physiological Genomics</i> , 2020, 52, 1-14.	1.0	9
27	Identification of Upstream Transcriptional Regulators of Ischemic Cardiomyopathy Using Cardiac RNA-Seq Meta-Analysis. <i>International Journal of Molecular Sciences</i> , 2020, 21, 3472.	1.8	9
28	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. <i>Physiological Genomics</i> , 2016, 48, 409-419.	1.0	8
29	FPR-1 (Formyl Peptide Receptor-1) Activation Promotes Spontaneous, Premature Hypertension in Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2021, 77, 1191-1202.	1.3	7
30	Sexual dimorphism in the progression of type 2 diabetic kidney disease in T2DN rats. <i>Physiological Genomics</i> , 2021, 53, 223-234.	1.0	7
31	Pleiotropic Effect of a High Resolution Mapped Blood Pressure QTL on Tumorigenesis. <i>PLoS ONE</i> , 2016, 11, e0153519.	1.1	6
32	QTL mapping of rat blood pressure loci on RNO1 within a homologous region linked to human hypertension on HSA15. <i>PLoS ONE</i> , 2019, 14, e0221658.	1.1	5
33	Application of Artificial Intelligence in Cardiovascular Medicine. , 2021, 11, 1-12.		5
34	Intrinsic Exercise Capacity and Mitochondrial DNA Lead to Opposing Vascular-Associated Risks. <i>Function</i> , 2020, 2, zqaa029.	1.1	5
35	Visualising reactive oxygen species in live mammals and revealing of ROS-related system. <i>Free Radical Research</i> , 2019, 53, 1073-1083.	1.5	4
36	Genetic predisposition for increased red blood cell distribution width is an early risk factor for cardiovascular and renal comorbidities. <i>DMM Disease Models and Mechanisms</i> , 2020, 13, .	1.2	4

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37	Fermentable fibers induce rapid macro- and micronutrient depletion in Toll-like receptor 5-deficient mice. <i>American Journal of Physiology - Renal Physiology</i> , 2020, 318, G955-G965.	1.6	3
38	Fine mapping of epistatic genetic determinants of blood pressure on rat chromosome 5. <i>Journal of Hypertension</i> , 2018, 36, 1486-1491.	0.3	2
39	Beyond the Gastrointestinal Tract: Oral and Sex-Specific Skin Microbiota Are Associated with Hypertension in Rats with Genetic Disparities. <i>Physiological Genomics</i> , 2022, , .	1.0	2
40	Single Nucleotide Polymorphism of <i>Spp2</i> Confers Sex-Specific Effects on Blood Pressure and Bone Health. <i>Hypertension</i> , 2020, 76, e31-e33.	1.3	1
41	In Vivo CRISPR/Cas9-Based Targeted Disruption and Knockin of a Long Noncoding RNA. <i>Methods in Molecular Biology</i> , 2021, 2254, 305-321.	0.4	1
42	Reconstitution of the host holobiont in germ-free born male rats acutely increases bone growth and affects marrow cellular content. <i>Physiological Genomics</i> , 2021, 53, 518-533.	1.0	1
43	Genetics of Hypertension. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2015, 7, 1-56.	0.3	0
44	Gut Microbiota Accelerates Bone Growth and Marrow Adiposity of the Adolescent Gnotobiotic Rat. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
45	Increased Host Energy Metabolism in the Proximal Colon-Microbiota Interface Elevates Blood Pressure. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
46	Metabolomics reveal dynamic host responses in lipid, amino acid, and energy metabolism after acute exposure of gut microbiota in germ-free rats. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
47	Depletion of Esterase-Harboring Bacteria Increases Antihypertensive Efficacy of ACE Inhibitor Quinapril. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
48	Machine Learning of Gut Microbiome Composition for Diagnostic Classification of Inflammatory Bowel Diseases. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
49	Sex Differences in Gut Microbiome Dysbiosis between Individuals with or without Cardiovascular Disease. <i>FASEB Journal</i> , 2021, 35, .	0.2	0
50	Amoxicillin-responsive alterations in commensal gut microbiota are associated with lowering of blood pressure in young hypertensive rats. <i>FASEB Journal</i> , 2019, 33, 691.3.	0.2	0
51	Salt-Responsive Metabolite, beta-Hydroxybutyrate, Attenuates Hypertension. <i>FASEB Journal</i> , 2019, 33, 866.4.	0.2	0
52	Effects of antibiotic treatment on microbiota, viral transmission and viral pathogenesis of MoMuLV ts1 infected BALB/c mice. <i>PLoS ONE</i> , 2022, 17, e0261689.	1.1	0