

# Mingyu Liang

## List of Publications by Year in descending order

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Version: 2024-02-01

132  
papers

5,176  
citations

70961

41  
h-index

95083

68  
g-index

136  
all docs

136  
docs citations

136  
times ranked

6581  
citing authors

#	ARTICLE	IF	CITATIONS
1	Substrate-dependent differential regulation of mitochondrial bioenergetics in the heart and kidney cortex and outer medulla. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2022, 1863, 148518.	0.5	10
2	Unique Associations of DNA Methylation Regions With 24-Hour Blood Pressure Phenotypes in Black Participants. <i>Hypertension</i> , 2022, 79, 761-772.	1.3	11
3	Histologically resolved small RNA maps in primary focal segmental glomerulosclerosis indicate progressive changes within glomerular and tubulointerstitial regions. <i>Kidney International</i> , 2022, 101, 766-778.	2.6	14
4	Metabolomic Kidney Input and Output Analyses in Salt-Sensitive Hypertension. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
5	Changes in Oxygen Consumption and Metabolomic Profiles in the Kidney of Sprague-Dawley Rat fed a High-Salt Diet. <i>FASEB Journal</i> , 2022, 36, .	0.2	0
6	An integrated epigenomic-transcriptomic landscape of lung cancer reveals novel methylation driver genes of diagnostic and therapeutic relevance. <i>Theranostics</i> , 2021, 11, 5346-5364.	4.6	23
7	Renal metabolism and hypertension. <i>Nature Communications</i> , 2021, 12, 963.	5.8	60
8	Transfer RNA Fragments in the Kidney in Hypertension. <i>Hypertension</i> , 2021, 77, 1627-1637.	1.3	3
9	Modeling Precision Cardio-Oncology: Using Human-Induced Pluripotent Stem Cells for Risk Stratification and Prevention. <i>Current Oncology Reports</i> , 2021, 23, 77.	1.8	2
10	Team Science: American Heart Association's Hypertension Strategically Focused Research Network Experience. <i>Hypertension</i> , 2021, 77, 1857-1866.	1.3	0
11	Dietary Sodium Restriction Results in Tissue-Specific Changes in DNA Methylation in Humans. <i>Hypertension</i> , 2021, 78, 434-446.	1.3	9
12	miR-204: Molecular Regulation and Role in Cardiovascular and Renal Diseases. <i>Hypertension</i> , 2021, 78, 270-281.	1.3	13
13	Theodore Allen Kotchen, MD: June 27, 1938-July 6, 2021. <i>Hypertension</i> , 2021, 78, 1674-1676.	1.3	0
14	Comparative and Functional Genomic Resource for Mechanistic Studies of Human Blood Pressure-Associated Single Nucleotide Polymorphisms. <i>Hypertension</i> , 2020, 75, 859-868.	1.3	16
15	Epigenetic Modifications in T Cells. <i>Hypertension</i> , 2020, 75, 372-382.	1.3	26
16	Small RNAs pack a punch in human kidney disease. <i>Kidney International</i> , 2020, 98, 275-277.	2.6	0
17	A comprehensive evaluation of computational tools to identify differential methylation regions using RRBS data. <i>Genomics</i> , 2020, 112, 4567-4576.	1.3	9
18	Twenty-four-hour versus clinic blood pressure levels as predictors of long-term cardiovascular and renal disease outcomes among African Americans. <i>Scientific Reports</i> , 2020, 10, 11685.	1.6	4

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19	Global identification and characterization of tRNA-derived RNA fragment landscapes across human cancers. <i>NAR Cancer</i> , 2020, 2, zcaa031.	1.6	18
20	Endogenous miR-204 Protects the Kidney against Chronic Injury in Hypertension and Diabetes. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 1539-1554.	3.0	50
21	Singleâ€Cell Transcriptomic Analysis. , 2020, 10, 767-783.		8
22	OncotRF: an online resource for exploration of tRNA-derived fragments in human cancers. <i>RNA Biology</i> , 2020, 17, 1081-1091.	1.5	39
23	LncRNA GAS5 promotes apoptosis as a competing endogenous RNA for miR-21 via thrombospondin 1 in ischemic AKI. <i>Cell Death Discovery</i> , 2020, 6, 19.	2.0	29
24	Abstract P245: Therapeutic Effects Of Mir-29b-Chitosan On Hypertension And Diabetic Complications. <i>Hypertension</i> , 2020, 76, .	1.3	0
25	Deletion of Tet proteins results in quantitative disparities during ESC differentiation partially attributable to alterations in gene expression. <i>BMC Developmental Biology</i> , 2019, 19, 16.	2.1	7
26	Library Preparation for Multiplexed Reduced Representation Bisulfite Sequencing with a Universal Adapter. <i>Methods in Molecular Biology</i> , 2019, 2018, 177-194.	0.4	2
27	Dietary Effects on Dahl Salt-Sensitive Hypertension, Renal Damage, and the T Lymphocyte Transcriptome. <i>Hypertension</i> , 2019, 74, 854-863.	1.3	31
28	Functional role of epigenetic regulation in the development of prenatal programmed hypertension. <i>Kidney International</i> , 2019, 96, 10-12.	2.6	1
29	Insufficient fumarase contributes to hypertension by an imbalance of redox metabolism in Dahl salt-sensitive rats. <i>Hypertension Research</i> , 2019, 42, 1672-1682.	1.5	10
30	Fumarase Overexpression Abolishes Hypertension Attributable to endothelial NO synthase Haploinsufficiency in Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2019, 74, 313-322.	1.3	6
31	Long Noncoding RNA: Genomics and Relevance to Physiology. , 2019, 9, 933-946.		25
32	miRNA51b-3p Activates an Oncostatin Signaling Module for the Progression of Triple-Negative Breast Cancer. <i>Cell Reports</i> , 2019, 29, 4389-4406.e10.	2.9	55
33	Refocusing Medical Education on Developing Medical Innovators. <i>Academic Medicine</i> , 2019, 94, 300-301.	0.8	2
34	MiR-192-5p in the Kidney Protects Against the Development of Hypertension. <i>Hypertension</i> , 2019, 73, 399-406.	1.3	45
35	Fumarase Overexpression Abolishes Hypertension Attributable to eNOS Haploinsufficiency in Dahl Saltâ€Sensitive Rats. <i>FASEB Journal</i> , 2019, 33, 569.7.	0.2	0
36	MicroRNA expression profiles in a human induced pluripotent stem cellâ€derived model of diabetic cardiomyopathy. <i>FASEB Journal</i> , 2019, 33, 713.2.	0.2	0

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37	Antithrombin $\alpha_2$ is a Novel Predictor for Contrast Induced Nephropathy After Coronary Angiography. <i>Kidney and Blood Pressure Research</i> , 2018, 43, 170-180.	0.9	14
38	Stability of global methylation profiles of whole blood and extracted DNA under different storage durations and conditions. <i>Epigenomics</i> , 2018, 10, 797-811.	1.0	37
39	miR-29 contributes to normal endothelial function and can restore it in cardiometabolic disorders. <i>EMBO Molecular Medicine</i> , 2018, 10, .	3.3	72
40	A comprehensive evaluation of alignment software for reduced representation bisulfite sequencing data. <i>Bioinformatics</i> , 2018, 34, 2715-2723.	1.8	29
41	Antithrombin III Attenuates AKI Following Acute Severe Pancreatitis. <i>Shock</i> , 2018, 49, 572-579.	1.0	25
42	MicroRNA-21 regulates peroxisome proliferator-activated receptor alpha, a molecular mechanism of cardiac pathology in Cardiorenal Syndrome Type 4. <i>Kidney International</i> , 2018, 93, 375-389.	2.6	68
43	Epigenetic Mechanisms and Hypertension. <i>Hypertension</i> , 2018, 72, 1244-1254.	1.3	66
44	Role of DNA De Novo (De)Methylation in the Kidney in Salt-Induced Hypertension. <i>Hypertension</i> , 2018, 72, 1160-1171.	1.3	23
45	Current status and strategies of long noncoding RNA research for diabetic cardiomyopathy. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 197.	0.7	35
46	MicroRNA-214-3p in the Kidney Contributes to the Development of Hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2018, 29, 2518-2528.	3.0	43
47	Artificial intelligence, physiological genomics, and precision medicine. <i>Physiological Genomics</i> , 2018, 50, 237-243.	1.0	86
48	Urinary Metabolites Associated with Blood Pressure on a Low- or High-Sodium Diet. <i>Theranostics</i> , 2018, 8, 1468-1480.	4.6	26
49	Tissue-specific effects of targeted mutation of Mir29b1 in rats. <i>EBioMedicine</i> , 2018, 35, 260-269.	2.7	9
50	Transcriptomic analysis reveals inflammatory and metabolic pathways that are regulated by renal perfusion pressure in the outer medulla of Dahl-S rats. <i>Physiological Genomics</i> , 2018, 50, 440-447.	1.0	10
51	Genome-wide map of proximity linkage to renin proximal promoter in rat. <i>Physiological Genomics</i> , 2018, 50, 323-331.	1.0	6
52	MicroRNA-668 represses MTP18 to preserve mitochondrial dynamics in ischemic acute kidney injury. <i>Journal of Clinical Investigation</i> , 2018, 128, 5448-5464.	3.9	85
53	Parallel genomic analysis: Hi-C analysis pipeline for open-source Torque resource manager. <i>FASEB Journal</i> , 2018, 32, 863.4.	0.2	0
54	miR-21 contributes to renal protection by targeting prolyl hydroxylase domain protein 2 in delayed ischaemic preconditioning. <i>Nephrology</i> , 2017, 22, 366-373.	0.7	14

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55	Antithrombin III Protects Against Contrast-Induced Nephropathy. <i>EBioMedicine</i> , 2017, 17, 101-107.	2.7	47
56	From GWAS to functional genomics-based precision medicine. <i>Nature Reviews Nephrology</i> , 2017, 13, 195-196.	4.1	27
57	<i>Serpinc1</i> /Antithrombin III in kidney-related diseases. <i>Clinical Science</i> , 2017, 131, 823-831.	1.8	51
58	Malate and Aspartate Increase L-Arginine and Nitric Oxide and Attenuate Hypertension. <i>Cell Reports</i> , 2017, 19, 1631-1639.	2.9	62
59	Redox Stress Defines the Small Artery Vasculopathy of Hypertension. <i>Circulation Research</i> , 2017, 120, 1721-1723.	2.0	14
60	Changes in miRNA in the lung and whole blood after whole thorax irradiation in rats. <i>Scientific Reports</i> , 2017, 7, 44132.	1.6	31
61	Mitochondrial Dysfunction and Altered Renal Metabolism in Dahl Salt-Sensitive Rats. <i>Kidney and Blood Pressure Research</i> , 2017, 42, 587-597.	0.9	21
62	Role of miR-21 on vascular endothelial cells in the protective effect of renal delayed ischemic preconditioning. <i>Molecular Medicine Reports</i> , 2017, 16, 2627-2635.	1.1	14
63	Antithrombin III prevents progression of chronic kidney disease following experimental ischaemic-reperfusion injury. <i>Journal of Cellular and Molecular Medicine</i> , 2017, 21, 3506-3514.	1.6	27
64	Elevation of fumarase attenuates hypertension and can result from a nonsynonymous sequence variation or increased expression depending on rat strain. <i>Physiological Genomics</i> , 2017, 49, 496-504.	1.0	15
65	Tissue-Specific MicroRNA Expression Patterns in Four Types of Kidney Disease. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 2985-2992.	3.0	93
66	miR-382 Contributes to Renal Tubulointerstitial Fibrosis by Downregulating HSPD1. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-16.	1.9	24
67	Renal Delivery of Anti-microRNA Oligonucleotides in Rats. <i>Methods in Molecular Biology</i> , 2017, 1527, 409-419.	0.4	0
68	Introduction to the American Heart Association's Hypertension Strategically Focused Research Network. <i>Hypertension</i> , 2016, 67, 674-680.	1.3	10
69	Ushering Hypertension Into a New Era of Precision Medicine. <i>JAMA - Journal of the American Medical Association</i> , 2016, 315, 343.	3.8	58
70	MicroRNA-489 Induction by Hypoxia-Inducible Factor-1 Protects against Ischemic Kidney Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2016, 27, 2784-2796.	3.0	75
71	Pappa2 is linked to salt-sensitive hypertension in Dahl S rats. <i>Physiological Genomics</i> , 2016, 48, 62-72.	1.0	35
72	MicroRNA-21 Mediates Isoflurane-induced Cardioprotection against Ischemia-Reperfusion Injury via Akt/Nitric Oxide Synthase/Mitochondrial Permeability Transition Pore Pathway. <i>Anesthesiology</i> , 2015, 123, 786-798.	1.3	63

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73	Maternal Diet During Gestation and Lactation Modifies the Severity of Salt-Induced Hypertension and Renal Injury in Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2015, 65, 447-455.	1.3	58
74	MicroRNA-687 Induced by Hypoxia-Inducible Factor-1 Targets Phosphatase and Tensin Homolog in Renal Ischemia-Reperfusion Injury. <i>Journal of the American Society of Nephrology: JASN</i> , 2015, 26, 1588-1596.	3.0	96
75	Antithrombin III/SerpinC1 insufficiency exacerbates renal ischemia/reperfusion injury. <i>Kidney International</i> , 2015, 88, 796-803.	2.6	67
76	deGPS is a powerful tool for detecting differential expression in RNA-sequencing studies. <i>BMC Genomics</i> , 2015, 16, 455.	1.2	21
77	Endogenous MicroRNAs in Human Microvascular Endothelial Cells Regulate mRNAs Encoded by Hypertension-Related Genes. <i>Hypertension</i> , 2015, 66, 793-799.	1.3	89
78	Genome-wide epigenetic and proteomic analysis reveals altered Notch signaling in EPC dysfunction. <i>Physiological Reports</i> , 2015, 3, e12358.	0.7	12
79	Reconstruction and analysis of correlation networks based on GCâ€‘MS metabolomics data for young hypertensive men. <i>Analytica Chimica Acta</i> , 2015, 854, 95-105.	2.6	76
80	Transcriptional regulation of heterogeneous nuclear ribonucleoprotein K gene expression. <i>Biochimie</i> , 2015, 109, 27-35.	1.3	7
81	Limb ischemic preconditioning protects against contrast-induced acute kidney injury in rats via phosphorylation of GSK-3 $\beta$ . <i>Free Radical Biology and Medicine</i> , 2015, 81, 170-182.	1.3	43
82	Improved rat genome gene prediction by integration of ESTs with RNA-Seq information. <i>Bioinformatics</i> , 2015, 31, 25-32.	1.8	6
83	Upregulation of miRâ€‘21 Restores Cardioprotection under Diabetic Conditions. <i>FASEB Journal</i> , 2015, 29, 1040.2.	0.2	0
84	Simulation Studies Informed by RNAâ€‘seq Data Suggest the Utility of a Multiâ€‘network Bayesian Graphical Model Algorithm for the Study of Hypertension in the Dahl S Rat. <i>FASEB Journal</i> , 2015, 29, 814.14.	0.2	0
85	Regulation of Hypertensionâ€‘Related Genes by Endogenous microRNAs in Human Microvascular Endothelial Cells. <i>FASEB Journal</i> , 2015, 29, 811.7.	0.2	0
86	Characterization of biological pathways associated with a 1.37 Mbp genomic region protective of hypertension in Dahl S rats. <i>Physiological Genomics</i> , 2014, 46, 398-410.	1.0	19
87	miR-21 in ischemia/reperfusion injury: a double-edged sword?. <i>Physiological Genomics</i> , 2014, 46, 789-797.	1.0	90
88	Base-Resolution Maps of 5-Methylcytosine and 5-Hydroxymethylcytosine in Dahl S Rats. <i>Hypertension</i> , 2014, 63, 827-838.	1.3	63
89	Analysis of metabolites in plasma reveals distinct metabolic features between Dahl salt-sensitive rats and consomic SS.13BN rats. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 863-869.	1.0	35
90	Ultrastructure of mitochondria and the endoplasmic reticulum in renal tubules of Dahl salt-sensitive rats. <i>American Journal of Physiology - Renal Physiology</i> , 2014, 306, F1190-F1197.	1.3	20

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91	Characteristics of Long Non-coding RNAs in the Brown Norway Rat and Alterations in the Dahl Salt-Sensitive Rat. <i>Scientific Reports</i> , 2014, 4, 7146.	1.6	41
92	Characteristics of microRNAs enriched in specific cell types and primary tissue types in solid organs. <i>Physiological Genomics</i> , 2013, 45, 1144-1156.	1.0	29
93	Epigenomics of Hypertension. <i>Seminars in Nephrology</i> , 2013, 33, 392-399.	0.6	63
94	miR-29c is downregulated in renal interstitial fibrosis in humans and rats and restored by HIF-1 $\alpha$ activation. <i>American Journal of Physiology - Renal Physiology</i> , 2013, 304, F1274-F1282.	1.3	109
95	MicroRNAs contribute to the maintenance of cell-type-specific physiological characteristics: miR-192 targets Na <sup>+</sup> /K <sup>+</sup> -ATPase $\beta$ 1. <i>Nucleic Acids Research</i> , 2013, 41, 1273-1283.	6.5	69
96	miR-21 Knockdown Attenuates the Cardioprotective Effects of Isoflurane. <i>FASEB Journal</i> , 2013, 27, lb679.	0.2	1
97	Medullary transcriptome comparisons among inbred rat strains differing in ventilatory sensitivity to CO <sub>2</sub> . <i>FASEB Journal</i> , 2013, 27, 1137.9.	0.2	0
98	The impact of maternal in utero environment on salt-induced hypertension in the SS rat. <i>FASEB Journal</i> , 2013, 27, 1182.7.	0.2	0
99	Delayed ischemic preconditioning contributes to renal protection by upregulation of miR-21. <i>Kidney International</i> , 2012, 82, 1167-1175.	2.6	146
100	MiR-382 targeting of kallikrein 5 contributes to renal inner medullary interstitial fibrosis. <i>Physiological Genomics</i> , 2012, 44, 259-267.	1.0	71
101	Report of the National Heart, Lung, and Blood Institute Working Group on Epigenetics and Hypertension. <i>Hypertension</i> , 2012, 59, 899-905.	1.3	91
102	Mitochondrial proteomic analysis reveals deficiencies in oxygen utilization in medullary thick ascending limb of Henle in the Dahl salt-sensitive rat. <i>Physiological Genomics</i> , 2012, 44, 829-842.	1.0	45
103	The miR-29 family: genomics, cell biology, and relevance to renal and cardiovascular injury. <i>Physiological Genomics</i> , 2012, 44, 237-244.	1.0	439
104	Increased Expression of NAD(P)H Oxidase Subunit p67phox in the Renal Medulla Contributes to Excess Oxidative Stress and Salt-Sensitive Hypertension. <i>Cell Metabolism</i> , 2012, 15, 201-208.	7.2	131
105	A novel physiological role of miR-192 in renal handling of fluid balance. <i>FASEB Journal</i> , 2012, 26, 1069.8.	0.2	0
106	The Role of MicroRNA in Anesthetic-Induced Cardiac Preconditioning. <i>FASEB Journal</i> , 2012, 26, 1136.3.	0.2	0
107	Hypertension as a mitochondrial and metabolic disease. <i>Kidney International</i> , 2011, 80, 15-16.	2.6	30
108	Proteomic analysis of mitochondrial protein expression in the medullary thick ascending limb of Henle (mTAL) of the Dahl salt-sensitive (SS) compared to salt-insensitive SS.13BN consomic rat. <i>FASEB Journal</i> , 2011, 25, 863.6.	0.2	0

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109	Rank product analysis of gene expression in the medullary thick ascending limb of Henle of Dahl salt-sensitive rats compared to salt-resistant SS.13BN consomic rats during the development of salt-sensitive hypertension. <i>FASEB Journal</i> , 2011, 25, 662.3.	0.2	0
110	MicroRNA-target pairs in human renal epithelial cells treated with transforming growth factor $\beta$ 1: a novel role of miR-382. <i>Nucleic Acids Research</i> , 2010, 38, 8338-8347.	6.5	112
111	Renal Medullary MicroRNAs in Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2010, 55, 974-982.	1.3	218
112	Novel Role of Fumarate Metabolism in Dahl-Salt Sensitive Hypertension. <i>Hypertension</i> , 2009, 54, 255-260.	1.3	59
113	MicroRNA: a new frontier in kidney and blood pressure research. <i>American Journal of Physiology - Renal Physiology</i> , 2009, 297, F553-F558.	1.3	89
114	MicroRNA: a new entrance to the broad paradigm of systems molecular medicine. <i>Physiological Genomics</i> , 2009, 38, 113-115.	1.0	39
115	MicroRNA target pairs in the rat kidney identified by microRNA microarray, proteomic, and bioinformatic analysis. <i>Genome Research</i> , 2008, 18, 404-411.	2.4	211
116	Renal Regional Proteomes in Young Dahl Salt-Sensitive Rats. <i>Hypertension</i> , 2008, 51, 899-904.	1.3	55
117	Molecular networks in Dahl salt-sensitive hypertension based on transcriptome analysis of a panel of consomic rats. <i>Physiological Genomics</i> , 2008, 34, 54-64.	1.0	45
118	Thiol-Related Genes in Diabetic Complications. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2007, 27, 77-83.	1.1	47
119	Integrative pathway knowledge bases as a tool for systems molecular medicine. <i>Physiological Genomics</i> , 2007, 30, 209-212.	1.0	9
120	Renal interstitial corticosterone and 11 $\alpha$ -dehydrocorticosterone in conscious rats. <i>FASEB Journal</i> , 2007, 21, A893.	0.2	0
121	Proteomic analysis of the renal medulla of Dahl salt-sensitive rats and consomic SS $\beta$ 13BN rats. <i>FASEB Journal</i> , 2007, 21, A896.	0.2	0
122	NADPH Oxidase in the Renal Medulla Causes Oxidative Stress and Contributes to Salt-Sensitive Hypertension in Dahl S Rats. <i>Hypertension</i> , 2006, 47, 692-698.	1.3	167
123	Physiological genomics in PG and beyond: October to December 2005. <i>Physiological Genomics</i> , 2006, 24, 1-3.	1.0	20
124	The contribution of renal medullary NADPH oxidase and mitochondrial superoxide production to salt-induced hypertension in Dahl S rats. <i>FASEB Journal</i> , 2006, 20, .	0.2	0
125	A novel role for endogenous thioredoxin 2 in protecting cells against the injurious effect of high ambient glucose. <i>FASEB Journal</i> , 2006, 20, .	0.2	0
126	Transcriptome analysis and kidney research: Toward systems biology. <i>Kidney International</i> , 2005, 67, 2114-2122.	2.6	25



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127	High throughput gene expression profiling: a molecular approach to integrative physiology. <i>Journal of Physiology</i> , 2004, 554, 22-30.	1.3	40
128	Insights into Dahl salt-sensitive hypertension revealed by temporal patterns of renal medullary gene expression. <i>Physiological Genomics</i> , 2003, 12, 229-237.	1.0	58
129	Quantitative assessment of the importance of dye switching and biological replication in cDNA microarray studies. <i>Physiological Genomics</i> , 2003, 14, 199-207.	1.0	38
130	Renal medullary genes in salt-sensitive hypertension: a chromosomal substitution and cDNA microarray study. <i>Physiological Genomics</i> , 2002, 8, 139-149.	1.0	46
131	Production and functional roles of nitric oxide in the proximal tubule. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2000, 278, R1117-R1124.	0.9	88
132	Advancing Physiology with Expanded Multi-Omics. <i>Function</i> , 0, , .	1.1	0