Michal Pravenec

List of Publications by Citations

213 papers	9,411 citations	45 h-index	93 g-index
243 ext. papers	10,267 ext. citations	7.2 avg, IF	5.12 L-index

#	Paper	IF	Citations
213	Identification of telmisartan as a unique angiotensin II receptor antagonist with selective PPARgamma-modulating activity. *Hypertension*, **2004**, 43, 993-1002	8.5	928
212	The Collaborative Cross, a community resource for the genetic analysis of complex traits. *Nature Genetics*, **2004**, 36, 1133-7	36.3	822
211	Identification of Cd36 (Fat) as an insulin-resistance gene causing defective fatty acid and glucose metabolism in hypertensive rats. *Nature Genetics*, **1999**, 21, 76-83	36.3	636
210	A genetic linkage map of the laboratory rat, Rattus norvegicus. *Nature Genetics*, **1995**, 9, 63-9	36.3	443
209	Integrated transcriptional profiling and linkage analysis for identification of genes underlying disease. *Nature Genetics*, **2005**, 37, 243-53	36.3	432
208	Progress and prospects in rat genetics: a community view. *Nature Genetics*, **2008**, 40, 516-22	36.3	234
207	A trans-acting locus regulates an anti-viral expression network and type 1 diabetes risk. *Nature*, **2010**, 467, 460-4	50.4	224
206	Cosegregation of blood pressure with a kallikrein gene family polymorphism. *Hypertension*, **1991**, 17, 242-6	8.5	194
205	Transgenic rescue of defective Cd36 ameliorates insulin resistance in spontaneously hypertensive rats. *Nature Genetics*, **2001**, 27, 156-8	36.3	172
204	Distribution and functional impact of DNA copy number variation in the rat. *Nature Genetics*, **2008**, 40, 538-45	36.3	170
203	Heritability and tissue specificity of expression quantitative trait loci. *PLoS Genetics*, **2006**, 2, e172	6	162
202	SNP and haplotype mapping for genetic analysis in the rat. *Nature Genetics*, **2008**, 40, 560-6	36.3	150
201	Antidiabetic mechanisms of angiotensin-converting enzyme inhibitors and angiotensin II receptor antagonists: beyond the renin-angiotensin system. *Journal of Hypertension*, **2004**, 22, 2253-61	1.9	146
200	Defective fatty acid uptake in the spontaneously hypertensive rat is a primary determinant of altered glucose metabolism, hyperinsulinemia, and myocardial hypertrophy. *Journal of Biological Chemistry*, **2001**, 276, 23661-6	5.4	139
199	Telmisartan but not valsartan increases caloric expenditure and protects against weight gain and hepatic steatosis. *Hypertension*, **2006**, 47, 1003-9	8.5	129
198	Mapping of quantitative trait loci for blood pressure and cardiac mass in the rat by genome scanning of recombinant inbred strains. *Journal of Clinical Investigation*, **1995**, 96, 1973-8	15.9	129
197	Integrated genomic approaches implicate osteoglycin (Ogn) in the regulation of left ventricular mass. *Nature Genetics*, **2008**, 40, 546-52	36.3	128

196	Quantitative trait loci for cellular defects in glucose and fatty acid metabolism in hypertensive rats. *Nature Genetics*, **1997**, 16, 197-201	36.3	127
195	An analysis of spontaneous hypertension in spontaneously hypertensive rats by means of new recombinant inbred strains. *Journal of Hypertension*, **1989**, 7, 270	1.9	126
194	Genetical genomic determinants of alcohol consumption in rats and humans. *BMC Biology*, **2009**, 7, 70	7.3	123
193	Endonuclease G is a novel determinant of cardiac hypertrophy and mitochondrial function. *Nature*, **2011**, 478, 114-8	50.4	114
192	CD36 mediates the phagocytosis of Plasmodium falciparum-infected erythrocytes by rodent macrophages. *Journal of Infectious Diseases*, **2004**, 189, 204-13	7	109
191	A genetic linkage map of the rat derived from recombinant inbred strains. *Mammalian Genome*, **1996**, 7, 117-27	3.2	104
190	Genetic mapping of two new blood pressure quantitative trait loci in the rat by genotyping endothelin system genes. *Journal of Clinical Investigation*, **1994**, 93, 2701-9	15.9	102
189	Transgenic and recombinant resistin impair skeletal muscle glucose metabolism in the spontaneously hypertensive rat. *Journal of Biological Chemistry*, **2003**, 278, 45209-15	5.4	88
188	Identification of renal Cd36 as a determinant of blood pressure and risk for hypertension. *Nature Genetics*, **2008**, 40, 952-4	36.3	84
187	Hypertensive strains and normotensive 'control' strains. How closely are they related?. *Hypertension*, **1992**, 19, 419-24	8.5	83
186	Genetics of Cd36 and the clustering of multiple cardiovascular risk factors in spontaneous hypertension. *Journal of Clinical Investigation*, **1999**, 103, 1651-7	15.9	82
185	The genome sequence of the spontaneously hypertensive rat: Analysis and functional significance. *Genome Research*, **2010**, 20, 791-803	9.7	77
184	Transposon-mediated transgenesis, transgenic rescue, and tissue-specific gene expression in rodents and rabbits. *FASEB Journal*, **2013**, 27, 930-41	0.9	74
183	Genetic susceptibility to hypertension-induced renal damage in the rat. Evidence based on kidney-specific genome transfer. *Journal of Clinical Investigation*, **1997**, 100, 1373-82	15.9	72
182	The rat renin gene: assignment to chromosome 13 and linkage to the regulation of blood pressure. *Genomics*, **1991**, 9, 466-72	4.3	66
181	Genetic isolation of a region of chromosome 8 that exerts major effects on blood pressure and cardiac mass in the spontaneously hypertensive rat. *Journal of Clinical Investigation*, **1997**, 99, 577-81	15.9	63
180	Direct linkage of mitochondrial genome variation to risk factors for type 2 diabetes in conplastic strains. *Genome Research*, **2007**, 17, 1319-26	9.7	61
179	Quantitative trait loci influencing cholesterol and phospholipid phenotypes map to chromosomes that contain genes regulating blood pressure in the spontaneously hypertensive rat. *Journal of Clinical Investigation*, **1996**, 98, 856-62	15.9	60

178	Germline transgenesis in pigs by cytoplasmic microinjection of Sleeping Beauty transposons. *Nature Protocols*, **2014**, 9, 810-27	18.8	58
177	Folate deficiency is associated with oxidative stress, increased blood pressure, and insulin resistance in spontaneously hypertensive rats. *American Journal of Hypertension*, **2013**, 26, 135-40	2.3	56
176	Effects of human C-reactive protein on pathogenesis of features of the metabolic syndrome. *Hypertension*, **2011**, 57, 731-7	8.5	54
175	Use of AFLP markers for gene mapping and QTL detection in the rat. *Genomics*, **1996**, 37, 289-94	4.3	53
174	Translational regulation shapes the molecular landscape of complex disease phenotypes. *Nature Communications*, **2015**, 6, 7200	17.4	51
173	Germline transgenesis in rodents by pronuclear microinjection of Sleeping Beauty transposons. *Nature Protocols*, **2014**, 9, 773-93	18.8	50
172	Pharmacogenetic evidence that cd36 is a key determinant of the metabolic effects of pioglitazone. *Journal of Biological Chemistry*, **2002**, 277, 48501-7	5.4	50
171	Restriction fragment length polymorphism of hsp70 gene, localized in the RT1 complex, is associated with hypertension in spontaneously hypertensive rats. *Hypertension*, **1992**, 19, 611-4	8.5	50
170	Workshop: excess growth and apoptosis: is hypertension a case of accelerated aging of cardiovascular cells?. *Hypertension*, **2001**, 37, 760-6	8.5	47
169	New insights into the genetic control of gene expression using a Bayesian multi-tissue approach. *PLoS Computational Biology*, **2010**, 6, e1000737	5	46
168	Genetic isolation of a chromosome 1 region affecting susceptibility to hypertension-induced renal damage in the spontaneously hypertensive rat. *Hypertension*, **1999**, 34, 187-91	8.5	43
167	Natural variation of histone modification and its impact on gene expression in the rat genome. *Genome Research*, **2014**, 24, 942-53	9.7	42
166	Germline transgenesis in rabbits by pronuclear microinjection of Sleeping Beauty transposons. *Nature Protocols*, **2014**, 9, 794-809	18.8	42
165	Nrf2-Mediated Antioxidant Defense and Peroxiredoxin 6 Are Linked to Biosynthesis of Palmitic Acid Ester of 9-Hydroxystearic Acid. *Diabetes*, **2018**, 67, 1190-1199	0.9	39
164	Molecular genetics of experimental hypertension and the metabolic syndrome: from gene pathways to new therapies. *Hypertension*, **2007**, 49, 941-52	8.5	39
163	Genetic contamination of Dahl SS/Jr rats. Impact on studies of salt-sensitive hypertension. *Hypertension*, **1994**, 23, 786-90	8.5	39
162	Effects of renin gene transfer on blood pressure and renin gene expression in a congenic strain of Dahl salt-resistant rats. *Journal of Clinical Investigation*, **1996**, 97, 522-7	15.9	38
161	Molecular-based mechanisms of Mendelian forms of salt-dependent hypertension: questioning the prevailing theory. *Hypertension*, **2015**, 65, 932-41	8.5	37

160	Gene expression profiling in hypertension research: a critical perspective. *Hypertension*, **2003**, 41, 3-8	8.5	36
159	MicroRNA-22 and promoter motif polymorphisms at the Chga locus in genetic hypertension: functional and therapeutic implications for gene expression and the pathogenesis of hypertension. *Human Molecular Genetics*, **2013**, 22, 3624-40	5.6	35
158	A new transgenic rat model of hepatic steatosis and the metabolic syndrome. *Hypertension*, **2005**, 45, 1004-11	8.5	34
157	Genetic analysis of rat chromosome 1 and the Sa gene in spontaneous hypertension. *Hypertension*, **2000**, 35, 225-30	8.5	34
156	Y-chromosome transfer induces changes in blood pressure and blood lipids in SHR. *Hypertension*, **2001**, 37, 1147-52	8.5	33
155	Wars2 is a determinant of angiogenesis. *Nature Communications*, **2016**, 7, 12061	17.4	31
154	Recent advances in genetics of the spontaneously hypertensive rat. *Current Hypertension Reports*, **2010**, 12, 5-9	4.7	30
153	Telmisartan increases fatty acid oxidation in skeletal muscle through a peroxisome proliferator-activated receptor-gamma dependent pathway. *Journal of Hypertension*, **2008**, 26, 1209-15	1.9	29
152	Genetic isolation of a chromosome 1 region affecting blood pressure in the spontaneously hypertensive rat. *Hypertension*, **1997**, 30, 854-9	8.5	29
151	Genetic basis of transcriptome differences between the founder strains of the rat HXB/BXH recombinant inbred panel. *Genome Biology*, **2012**, 13, r31	18.3	28
150	An Appraisal of Methods Recently Recommended for Testing Salt Sensitivity of Blood Pressure. *Journal of the American Heart Association*, **2017**, 6,	6	27
149	Newborn and adult recombinant inbred strains: a tool to search for genetic determinants of target organ damage in hypertension. *Kidney International*, **1998**, 53, 1488-92	9.9	27
148	A spontaneous mutation in the desmoglein 4 gene underlies hypotrichosis in a new lanceolate hair rat model. *Differentiation*, **2004**, 72, 541-7	3.5	27
147	Mapping of quantitative trait loci (QTL) of differential stress gene expression in rat recombinant inbred strains. *Journal of Hypertension*, **2000**, 18, 545-51	1.9	27
146	Contribution of autosomal loci and the Y chromosome to the stress response in rats. *Hypertension*, **2000**, 35, 568-73	8.5	27
145	An alternative hypothesis to the widely held view that renal excretion of sodium accounts for resistance to salt-induced hypertension. *Kidney International*, **2016**, 90, 965-973	9.9	25
144	WWP2 regulates pathological cardiac fibrosis by modulating SMAD2 signaling. *Nature Communications*, **2019**, 10, 3616	17.4	24
143	Integrated genomic approaches to identification of candidate genes underlying metabolic and cardiovascular phenotypes in the spontaneously hypertensive rat. *Physiological Genomics*, **2011**, 43, 1207-18	2.6	23

142	Identification of mutated Srebf1 as a QTL influencing risk for hepatic steatosis in the spontaneously hypertensive rat. *Hypertension*, **2008**, 51, 148-53	8.5	23
141	Molecule-specific effects of angiotensin II-receptor blockers independent of the renin-angiotensin system. *American Journal of Hypertension*, **2008**, 21, 852-9	2.3	23
140	Mapping and sequence analysis of the gene encoding the beta subunit of the epithelial sodium channel in experimental models of hypertension. *Journal of Hypertension*, **1995**, 13, 1247-51	1.9	23
139	Mapping genetic determinants of coronary microvascular remodeling in the spontaneously hypertensive rat. *Basic Research in Cardiology*, **2013**, 108, 316	11.8	22
138	Increased liver oxidative stress and altered PUFA metabolism precede development of non-alcoholic steatohepatitis in SREBP-1a transgenic spontaneously hypertensive rats with genetic predisposition to hepatic steatosis. *Molecular and Cellular Biochemistry*, **2010**, 335, 119-25	4.2	22
137	histoneHMM: Differential analysis of histone modifications with broad genomic footprints. *BMC Bioinformatics*, **2015**, 16, 60	3.6	21
136	Systems-level approaches reveal conservation of trans-regulated genes in the rat and genetic determinants of blood pressure in humans. *Cardiovascular Research*, **2013**, 97, 653-65	9.9	21
135	Segment of rat chromosome 20 regulates diet-induced augmentations in adiposity, glucose intolerance, and blood pressure. *Hypertension*, **2003**, 41, 1047-55	8.5	21
134	Effect of chromosome 19 transfer on blood pressure in the spontaneously hypertensive rat. *Hypertension*, **1999**, 33, 256-60	8.5	21
133	The American Heart Association Scientific Statement on salt sensitivity of blood pressure: Prompting consideration of alternative conceptual frameworks for the pathogenesis of salt sensitivity?. *Journal of Hypertension*, **2017**, 35, 2214-2225	1.9	20
132	Genetic relationship between placental and fetal weights and markers of the metabolic syndrome in rat recombinant inbred strains. *Physiological Genomics*, **2006**, 26, 226-31	3.6	20
131	Downregulation of Gene Ameliorates Metabolic and Cardiac Traits in the Spontaneously Hypertensive Rat. *Hypertension*, **2017**, 69, 1084-1091	8.5	19
130	Fumaric acid esters can block pro-inflammatory actions of human CRP and ameliorate metabolic disturbances in transgenic spontaneously hypertensive rats. *PLoS ONE*, **2014**, 9, e101906	3.7	19
129	Genome-wide co-expression analysis in multiple tissues. *PLoS ONE*, **2008**, 3, e4033	3.7	19
128	Genetic determination of heart and kidney weights studied using a set of recombinant inbred strains: the relationship to blood pressure. *Journal of Hypertension*, **1990**, 8, 1091-5	1.9	19
127	The pivotal role of renal vasodysfunction in salt sensitivity and the initiation of salt-induced hypertension. *Current Opinion in Nephrology and Hypertension*, **2018**, 27, 83-92	3.5	18
126	Genetic regulation of catecholamine synthesis, storage and secretion in the spontaneously hypertensive rat. *Human Molecular Genetics*, **2010**, 19, 2567-80	5.6	18
125	CD36 overexpression predisposes to arrhythmias but reduces infarct size in spontaneously hypertensive rats: gene expression profile analysis. *Physiological Genomics*, **2012**, 44, 173-82	3.6	18

124	TA repeat variation, Npr1 expression, and blood pressure: impact of the Ace locus. *Hypertension*, **2003**, 41, 16-24	8.5	18
123	Dissection of chromosome 18 blood pressure and salt-sensitivity quantitative trait loci in the spontaneously hypertensive rat. *Hypertension*, **2009**, 54, 639-45	8.5	17
122	Integrated gene expression profiling and linkage analysis in the rat. *Mammalian Genome*, **2006**, 17, 480-9	3.2	17
121	Heart rate and blood pressure quantitative trait loci for the airpuff startle reaction. *Hypertension*, **2002**, 39, 348-52	8.5	17
120	Mapping genes controlling hematocrit in the spontaneously hypertensive rat. *Mammalian Genome*, **1997**, 8, 387-9	3.2	16
119	Assignment of rat linkage group V to chromosome 19 by single-strand conformation polymorphism analysis of somatic cell hybrids. *Genomics*, **1992**, 12, 350-6	4.3	16
118	Effects of Metformin on Tissue Oxidative and Dicarbonyl Stress in Transgenic Spontaneously Hypertensive Rats Expressing Human C-Reactive Protein. *PLoS ONE*, **2016**, 11, e0150924	3.7	16
117	Plzf as a candidate gene predisposing the spontaneously hypertensive rat to hypertension, left ventricular hypertrophy, and interstitial fibrosis. *American Journal of Hypertension*, **2014**, 27, 99-106	2.3	15
116	Rat chromosome 1: regional localization of seven genes (Slc9a3, Srd5a1, Esr, Tcp1, Grik5, Tnnt3, Jak2) and anchoring of the genetic linkage map to the cytogenetic map. *Mammalian Genome*, **1997**, 8, 657-60	3.2	15
115	Fat-specific transgenic expression of resistin in the spontaneously hypertensive rat impairs fatty acid re-esterification. *International Journal of Obesity*, **2006**, 30, 1157-9	5.5	15
114	Identification of a mutation in ADD1/SREBP-1 in the spontaneously hypertensive rat. *Mammalian Genome*, **2001**, 12, 295-8	3.2	15
113	Effect of renin gene transfer on blood pressure in the spontaneously hypertensive rat. *Hypertension*, **1998**, 31, 373-7	8.5	15
112	Mutant Wars2 gene in spontaneously hypertensive rats impairs brown adipose tissue function and predisposes to visceral obesity. *Physiological Research*, **2017**, 66, 917-924	2.1	15
111	Selective replacement of mitochondrial DNA increases the cardioprotective effect of chronic continuous hypoxia in spontaneously hypertensive rats. *Clinical Science*, **2017**, 131, 865-881	6.5	14
110	Genetic analysis of the cardiac methylome at single nucleotide resolution in a model of human cardiovascular disease. *PLoS Genetics*, **2014**, 10, e1004813	6	14
109	Genetic dissection of testicular weight in the mouse with the BXD recombinant inbred strains. *Mammalian Genome*, **1998**, 9, 503-5	3.2	14
108	Testing Computer Models Predicting Human Responses to a High-Salt Diet. *Hypertension*, **2018**, 72, 1407-1416	8.5	14
107	Nonsynonymous variants in mt-Nd2, mt-Nd4, and mt-Nd5 are linked to effects on oxidative phosphorylation and insulin sensitivity in rat conplastic strains. *Physiological Genomics*, **2012**, 44, 487-94	3.6	13

106	A new framework marker-based linkage map and SDPs for the rat HXB/BXH strain set. *Mammalian Genome*, **2003**, 14, 537-46	3.2	13
105	Genetic analysis of complex cardiovascular traits in the spontaneously hypertensive rat. *Experimental Physiology*, **2005**, 90, 273-6	2.4	13
104	Genetics of Cd36 and the hypertension metabolic syndrome. *Seminars in Nephrology*, **2002**, 22, 148-53	4.8	13
103	Small Amounts of Inorganic Nitrate or Beetroot Provide Substantial Protection From Salt-Induced Increases in Blood Pressure. *Hypertension*, **2019**, 73, 1042-1048	8.5	12
102	Effects of mtDNA in SHR-mtF344 versus SHR conplastic strains on reduced OXPHOS enzyme levels, insulin resistance, cardiac hypertrophy, and systolic dysfunction. *Physiological Genomics*, **2014**, 46, 671-8	3.6	12
101	Effect of telmisartan on selected adipokines, insulin sensitivity, and substrate utilization during insulin-stimulated conditions in patients with metabolic syndrome and impaired fasting glucose. *European Journal of Endocrinology*, **2010**, 163, 573-83	6.5	12
100	Effect of acute hyperinsulinaemia with and without angiotensin II type 1 receptor blockade on resistin and adiponectin concentrations and expressions in healthy subjects. *European Journal of Endocrinology*, **2007**, 157, 443-9	6.5	12
99	Genome scanning of the HXB/BXH sets of recombinant inbred strains of the rat for quantitative trait loci associated with conditioned taste aversion. *Behavior Genetics*, **2002**, 32, 51-6	3.2	12
98	Functional foods for augmenting nitric oxide activity and reducing the risk for salt-induced hypertension and cardiovascular disease in Japan. *Journal of Cardiology*, **2018**, 72, 42-49	3	11
97	Genetic isolation of a blood pressure quantitative trait locus on chromosome 2 in the spontaneously hypertensive rat. *Journal of Hypertension*, **2001**, 19, 1061-4	1.9	11
96	A genetic and correlation analysis of liver cholesterol concentration in rat recombinant inbred strains fed a high cholesterol diet. *Biochemical and Biophysical Research Communications*, **1998**, 246, 272-5	3.4	11
95	Mapping of quantitative trait loci for seminal vesicle mass and litter size to rat chromosome 8. *Reproduction*, **1999**, 116, 329-33	3.8	11
94	Platelet aggregation in spontaneous hypertension: genetic determination and correlation analysis. *Journal of Hypertension*, **1992**, 10, 1453-6	1.9	11
93	Association of red blood cell sodium leak with blood pressure in recombinant inbred strains. *Hypertension*, **1992**, 20, 575-82	8.5	11
92	Changing views on the common physiologic abnormality that mediates salt sensitivity and initiation of salt-induced hypertension: Japanese research underpinning the vasodysfunction theory of salt sensitivity. *Hypertension Research*, **2019**, 42, 6-18	4.7	11
91	Rosuvastatin can block pro-inflammatory actions of transgenic human C-reactive protein without reducing its circulating levels. *Cardiovascular Therapeutics*, **2014**, 32, 59-65	3.3	10
90	Genetic analysis of metabolic defects in the spontaneously hypertensive rat. *Mammalian Genome*, **2002**, 13, 253-8	3.2	10
89	Targeting of the Plzf Gene in the Rat by Transcription Activator-Like Effector Nuclease Results in Caudal Regression Syndrome in Spontaneously Hypertensive Rats. *PLoS ONE*, **2016**, 11, e0164206	3.7	10

88	Rodent transgenesis mediated by a novel hyperactive Sleeping Beauty transposon system. *Methods in Molecular Biology*, **2011**, 738, 87-99	1.4	10
87	Insight into the genetics of hypertension, a core component of the metabolic syndrome. *Current Opinion in Clinical Nutrition and Metabolic Care*, **2008**, 11, 393-7	3.8	9
86	Identification and chromosomal localization of ecogenetic components of electrolyte excretion. *Journal of Hypertension*, **2002**, 20, 209-17	1.9	9
85	Biochemical genetics of methylglyoxal dehydrogenases in the laboratory rat (Rattus norvegicus). *Biochemical Genetics*, **1994**, 32, 147-54	2.4	9
84	Use of rat genomics for investigating the metabolic syndrome. *Methods in Molecular Biology*, **2010**, 597, 415-26	1.4	9
83	Uncovering the liver's role in immunity through RNA co-expression networks. *Mammalian Genome*, **2016**, 27, 469-84	3.2	9
82	Systems Genetics Approaches in Rat Identify Novel Genes and Gene Networks Associated With Cardiac Conduction. *Journal of the American Heart Association*, **2018**, 7, e009243	6	9
81	Genetic, physiological and comparative genomic studies of hypertension and insulin resistance in the spontaneously hypertensive rat. *DMM Disease Models and Mechanisms*, **2017**, 10, 297-306	4.1	8
80	Genetic Variation in Renal Expression of Folate Receptor 1 (Folr1) Gene Predisposes Spontaneously Hypertensive Rats to Metabolic Syndrome. *Hypertension*, **2016**, 67, 335-41	8.5	8
79	Tissue-specific peroxisome proliferator activated receptor gamma expression and metabolic effects of telmisartan. *American Journal of Hypertension*, **2013**, 26, 829-35	2.3	8
78	Salt preference of congenic strains derived from the spontaneously hypertensive rat. *Physiology and Behavior*, **2004**, 80, 617-22	3.5	8
77	Genes of stress in experimental hypertension. *Clinical and Experimental Pharmacology and Physiology*, **1994**, 21, 907-11	3	8
76	Hepatotoxic effects of fenofibrate in spontaneously hypertensive rats expressing human C-reactive protein. *Physiological Research*, **2016**, 65, 891-899	2.1	8
75	Transgenic rescue of defective Cd36 enhances myocardial adenylyl cyclase signaling in spontaneously hypertensive rats. *Pflugers Archiv European Journal of Physiology*, **2013**, 465, 1477-86	4.6	7
74	Linkage mapping of alkaline phosphatase 1, inhibin alpha subunit, and gamma-crystallin 1 on rat chromosome 9 and Na+, K(+)-ATPase alpha 2 subunit, renin, and leukocyte common antigen on rat chromosome 13. *Genomics*, **1994**, 19, 190-1	4.3	7
73	Generation of rat "supersonic" congenic/conplastic strains using superovulation and embryo transfer. *Methods in Molecular Biology*, **2010**, 597, 267-75	1.4	7
72	Alterations in the cardiac proteome of the spontaneously hypertensive rat induced by transgenic expression of CD36. *Journal of Proteomics*, **2016**, 145, 177-186	3.9	7
71	Systems genetic analysis of brown adipose tissue function. *Physiological Genomics*, **2018**, 50, 52-66	3.6	7

70	Cardioprotective Regimen of Adaptation to Chronic Hypoxia Diversely Alters Myocardial Gene Expression in SHR and SHR-mt Conplastic Rat Strains. *Frontiers in Endocrinology*, **2018**, 9, 809	5.7	6
69	Role of FAT/CD36 in novel PKC isoform activation in heart of spontaneously hypertensive rats. *Molecular and Cellular Biochemistry*, **2011**, 357, 163-9	4.2	6
68	Age-related autocrine diabetogenic effects of transgenic resistin in spontaneously hypertensive rats: gene expression profile analysis. *Physiological Genomics*, **2011**, 43, 372-9	3.6	6
67	Long-term pioglitazone treatment enhances lipolysis in rat adipose tissue. *International Journal of Obesity*, **2008**, 32, 1848-53	5.5	6
66	Sequencing and chromosomal localization of Fabp6 and an intronless Fabp6 segment in the rat. *Molecular Biology Reports*, **2003**, 30, 173-6	2.8	6
65	Quantitative trait loci for compensatory renal hypertrophy in the mouse. *Biochemical and Biophysical Research Communications*, **1998**, 248, 473-5	3.4	6
64	Congenic strains for genetic analysis of hypertension and dyslipidemia in the spontaneously hypertensive rat. *Transplantation Proceedings*, **1999**, 31, 1555-6	1.1	6
63	Chromosomal mapping of a major quantitative trait locus regulating compensatory renal growth in the rat. *Journal of the American Society of Nephrology: JASN*, **2000**, 11, 1261-1265	12.7	6
62	Splicing mutation in Sbf1 causes nonsyndromic male infertility in the rat. *Reproduction*, **2016**, 152, 215-23	3.8	5
61	Succinimidyl oleate, established inhibitor of CD36/FAT translocase inhibits complex III of mitochondrial respiratory chain. *Biochemical and Biophysical Research Communications*, **2010**, 391, 1348-51	3.4	5
60	Hemodynamic characterization of recombinant inbred strains: twenty years later. *Hypertension Research*, **2008**, 31, 1659-68	4.7	5
59	Genetic and correlation analysis of hepatic copper content in the rat. *Biochemical and Biophysical Research Communications*, **2001**, 289, 1247-51	3.4	5
58	Rat congenic and recombinant inbred strains: a genetic model for the study of quantitative trait loci. *Transplantation Proceedings*, **1999**, 31, 1592-3	1.1	5
57	Von Willebrand Factor Gene Variants Associate with Herpes simplex Encephalitis. *PLoS ONE*, **2016**, 11, e0155832	3.7	5
56	Autocrine effects of transgenic resistin reduce palmitate and glucose oxidation in brown adipose tissue. *Physiological Genomics*, **2016**, 48, 420-7	3.6	4
55	Mitochondrial genome modulates myocardial Akt/Glut/HK salvage pathway in spontaneously hypertensive rats adapted to chronic hypoxia. *Physiological Genomics*, **2018**, 50, 532-541	3.6	4
54	Strategies Are Needed to Prevent Salt-Induced Hypertension That Do Not Depend on Reducing Salt Intake. *American Journal of Hypertension*, **2020**, 33, 116-118	2.3	4
53	Genetic locus on rat chromosome 20 regulates diet-induced adipocyte hypertrophy: a microarray gene expression study. *Physiological Genomics*, **2009**, 38, 63-72	3.6	4

52	Linkage mapping of the Na-K-2Cl cotransporter gene (Slc12a1) to rat chromosome 3. *Mammalian Genome*, **1997**, 8, 379	3.2	4
51	New genetic models for hypertension research. *Trends in Cardiovascular Medicine*, **1993**, 3, 119-23	6.9	4
50	Rosuvastatin ameliorates inflammation, renal fat accumulation, and kidney injury in transgenic spontaneously hypertensive rats expressing human C-reactive protein. *Physiological Research*, **2015**, 64, 295-301	2.1	4
49	Connexin 50 mutation lowers blood pressure in spontaneously hypertensive rat. *Physiological Research*, **2017**, 66, 15-28	2.1	4
48	Dissecting the role of Folr1 and Folh1 genes in the pathogenesis of metabolic syndrome in spontaneously hypertensive rats. *Physiological Research*, **2018**, 67, 657-662	2.1	4
47	Rat PRDM9 shapes recombination landscapes, duration of meiosis, gametogenesis, and age of fertility. *BMC Biology*, **2021**, 19, 86	7.3	4
46	No evidence of racial disparities in blood pressure salt sensitivity when potassium intake exceeds levels recommended in the US dietary guidelines. *American Journal of Physiology - Heart and Circulatory Physiology*, **2021**, 320, H1903-H1918	5.2	4
45	Salsalate ameliorates metabolic disturbances by reducing inflammation in spontaneously hypertensive rats expressing human C-reactive protein and by activating brown adipose tissue in nontransgenic controls. *PLoS ONE*, **2017**, 12, e0179063	3.7	3
44	Adrenergic signaling, monoamine oxidase A and antioxidant defence in the myocardium of SHR and SHR-mtBN conplastic rat strains: the effect of chronic hypoxia. *Journal of Physiological Sciences*, **2018**, 68, 441-454	2.3	3
43	Unsupervised, Statistically Based Systems Biology Approach for Unraveling the Genetics of Complex Traits: A Demonstration with Ethanol Metabolism. *Alcoholism: Clinical and Experimental Research*, **2018**, 42, 1177-1191	3.7	3
42	Genetic analysis of graft-versus-host disease using rat recombinant inbred strains. *Transplantation Proceedings*, **1997**, 29, 1734-5	1.1	3
41	Rat genome mapping using recombinant inbred strains. *Transplantation Proceedings*, **1997**, 29, 1768	1.1	3
40	Linkage mapping of the cellular retinoic acid-binding protein 1 (Crabp1) gene to rat chromosome 8. *Mammalian Genome*, **1997**, 8, 455-6	3.2	3
39	Reply to Normalization procedures and detection of linkage signal in genetical-genomics experiments *Nature Genetics*, **2006**, 38, 858-859	36.3	3
38	Renal renin activity is associated with alterations of the renin gene in recombinant inbred rat strains. *Clinical Science*, **1993**, 84, 129-32	6.5	3
37	Use of recombinant inbred strains for evaluation of intermediate phenotypes in spontaneous hypertension. *Clinical and Experimental Pharmacology and Physiology*, **1994**, 21, 903-6	3	3
36	Isolation of a Genomic Region Affecting Most Components of Metabolic Syndrome in a Chromosome-16 Congenic Rat Model. *PLoS ONE*, **2016**, 11, e0152708	3.7	3
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