

Petr Mlejnek

List of Publications by Year in descending order

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47
papers

908
citations

516710

16
h-index

501196

28
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52
all docs

52
docs citations

52
times ranked

1475
citing authors

#	ARTICLE	IF	CITATIONS
1	Transgenic and Recombinant Resistin Impair Skeletal Muscle Glucose Metabolism in the Spontaneously Hypertensive Rat. <i>Journal of Biological Chemistry</i> , 2003, 278, 45209-45215.	3.4	98
2	Identification of renal Cd36 as a determinant of blood pressure and risk for hypertension. <i>Nature Genetics</i> , 2008, 40, 952-954.	21.4	97
3	Direct linkage of mitochondrial genome variation to risk factors for type 2 diabetes in conplastic strains. <i>Genome Research</i> , 2007, 17, 1319-1326.	5.5	78
4	Folate Deficiency Is Associated With Oxidative Stress, Increased Blood Pressure, and Insulin Resistance in Spontaneously Hypertensive Rats. <i>American Journal of Hypertension</i> , 2013, 26, 135-140.	2.0	76
5	Effects of Human C-Reactive Protein on Pathogenesis of Features of the Metabolic Syndrome. <i>Hypertension</i> , 2011, 57, 731-737.	2.7	61
6	Downregulation of <i>Plzf</i> Gene Ameliorates Metabolic and Cardiac Traits in the Spontaneously Hypertensive Rat. <i>Hypertension</i> , 2017, 69, 1084-1091.	2.7	41
7	A New Transgenic Rat Model of Hepatic Steatosis and the Metabolic Syndrome. <i>Hypertension</i> , 2005, 45, 1004-1011.	2.7	39
8	Identification of Mutated <i>Srebf1</i> as a QTL Influencing Risk for Hepatic Steatosis in the Spontaneously Hypertensive Rat. <i>Hypertension</i> , 2008, 51, 148-153.	2.7	31
9	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. <i>Molecular and Cellular Biochemistry</i> , 2010, 335, 119-125.	3.1	25
10	Nonsynonymous variants in mt-Nd2, mt-Nd4, and mt-Nd5 are linked to effects on oxidative phosphorylation and insulin sensitivity in rat conplastic strains. <i>Physiological Genomics</i> , 2012, 44, 487-494.	2.3	25
11	<i>Plzf</i> as a Candidate Gene Predisposing the Spontaneously Hypertensive Rat to Hypertension, Left Ventricular Hypertrophy, and Interstitial Fibrosis. <i>American Journal of Hypertension</i> , 2014, 27, 99-106.	2.0	25
12	Fumaric Acid Esters Can Block Pro-Inflammatory Actions of Human CRP and Ameliorate Metabolic Disturbances in Transgenic Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2014, 9, e101906.	2.5	22
13	Effects of Metformin on Tissue Oxidative and Dicarbonyl Stress in Transgenic Spontaneously Hypertensive Rats Expressing Human C-Reactive Protein. <i>PLoS ONE</i> , 2016, 11, e0150924.	2.5	21
14	Mutant <i>Wars2</i> Gene in Spontaneously Hypertensive Rats Impairs Brown Adipose Tissue Function and Predisposes to Visceral Obesity. <i>Physiological Research</i> , 2017, 66, 917-924.	0.9	21
15	CD36 overexpression predisposes to arrhythmias but reduces infarct size in spontaneously hypertensive rats: gene expression profile analysis. <i>Physiological Genomics</i> , 2012, 44, 173-182.	2.3	19
16	Effects of mtDNA in SHR-mt ^{F344} versus SHR conplastic strains on reduced OXPHOS enzyme levels, insulin resistance, cardiac hypertrophy, and systolic dysfunction. <i>Physiological Genomics</i> , 2014, 46, 671-678.	2.3	18
17	Dissection of Chromosome 18 Blood Pressure and Salt-Sensitivity Quantitative Trait Loci in the Spontaneously Hypertensive Rat. <i>Hypertension</i> , 2009, 54, 639-645.	2.7	17
18	Fat-specific transgenic expression of resistin in the spontaneously hypertensive rat impairs fatty acid re-esterification. <i>International Journal of Obesity</i> , 2006, 30, 1157-1159.	3.4	16

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19	Effect of acute hyperinsulinaemia with and without angiotensin II type 1 receptor blockade on resistin and adiponectin concentrations and expressions in healthy subjects. <i>European Journal of Endocrinology</i> , 2007, 157, 443-449.	3.7	15
20	Effect of telmisartan on selected adipokines, insulin sensitivity, and substrate utilization during insulin-stimulated conditions in patients with metabolic syndrome and impaired fasting glucose. <i>European Journal of Endocrinology</i> , 2010, 163, 573-583.	3.7	14
21	Genetic Variation in Renal Expression of <i>Folate Receptor 1</i> (<i>Folr1</i>) Gene Predisposes Spontaneously Hypertensive Rats to Metabolic Syndrome. <i>Hypertension</i> , 2016, 67, 335-341.	2.7	14
22	Targeting of the <i>Plzf</i> Gene in the Rat by Transcription Activator-Like Effector Nuclease Results in Caudal Regression Syndrome in Spontaneously Hypertensive Rats. <i>PLoS ONE</i> , 2016, 11, e0164206.	2.5	13
23	Genetic analysis of metabolic defects in the spontaneously hypertensive rat. <i>Mammalian Genome</i> , 2002, 13, 253-258.	2.2	12
24	Systems genetic analysis of brown adipose tissue function. <i>Physiological Genomics</i> , 2018, 50, 52-66.	2.3	11
25	Rosuvastatin Can Block Pro-inflammatory Actions of Transgenic Human <i>C-reactive Protein</i> Without Reducing its Circulating Levels. <i>Cardiovascular Therapeutics</i> , 2014, 32, 59-65.	2.5	10
26	Hepatotoxic Effects of Fenofibrate in Spontaneously Hypertensive Rats Expressing Human C-Reactive Protein. <i>Physiological Research</i> , 2016, 65, 891-899.	0.9	10
27	Tissue-Specific Peroxisome Proliferator Activated Receptor Gamma Expression and Metabolic Effects of Telmisartan. <i>American Journal of Hypertension</i> , 2013, 26, 829-835.	2.0	9
28	Long-term pioglitazone treatment enhances lipolysis in rat adipose tissue. <i>International Journal of Obesity</i> , 2008, 32, 1848-1853.	3.4	7
29	Age-related autocrine diabetogenic effects of transgenic resistin in spontaneously hypertensive rats: gene expression profile analysis. <i>Physiological Genomics</i> , 2011, 43, 372-379.	2.3	6
30	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. <i>PLoS ONE</i> , 2017, 12, e0179063.	2.5	6
31	Gender-Related Effects on Substrate Utilization and Metabolic Adaptation in Hairless Spontaneously Hypertensive Rat. <i>Physiological Research</i> , 2015, 64, 51-60.	0.9	6
32	Dissecting the Role of <i>Folr1</i> and <i>Folh1</i> Genes in the Pathogenesis of Metabolic Syndrome in Spontaneously Hypertensive Rats. <i>Physiological Research</i> , 2018, 67, 657-662.	0.9	6
33	Downregulation of the <i>Glo1</i> Gene Is Associated with Reduced Adiposity and Ectopic Fat Accumulation in Spontaneously Hypertensive Rats. <i>Antioxidants</i> , 2020, 9, 1179.	5.1	5
34	Autocrine effects of transgenic resistin reduce palmitate and glucose oxidation in brown adipose tissue. <i>Physiological Genomics</i> , 2016, 48, 420-427.	2.3	4
35	The Response of Macro- and Micronutrient Nutrient Status and Biochemical Processes in Rats Fed on a Diet with Selenium-Enriched Defatted Rapeseed and/or Vitamin E Supplementation. <i>BioMed Research International</i> , 2017, 2017, 1-13.	1.9	4
36	Sodium Accumulation and Blood Capillary Rarefaction in the Skin Predispose Spontaneously Hypertensive Rats to Salt Sensitive Hypertension. <i>Biomedicines</i> , 2022, 10, 376.	3.2	4

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37	The CD36 protein functions as an immunogenic domain of the RT8 alloantigen. <i>International Journal of Immunogenetics</i> , 2003, 30, 325-327.	1.2	3
38	Effect of selenium-enriched defatted rape seeds on tissue cadmium and essential elements utilization in rats. <i>Czech Journal of Animal Science</i> , 2016, 61, 496-505.	1.3	3
39	Effects of Transgenic Expression of Dopamine Beta Hydroxylase (Dbh) Gene on Blood Pressure in Spontaneously Hypertensive Rats. <i>Physiological Research</i> , 2016, 65, 1039-1044.	0.9	3
40	Systems genetics in the rat HXB/BXH family identifies Tti2 as a pleiotropic quantitative trait gene for adult hippocampal neurogenesis and serum glucose. <i>PLoS Genetics</i> , 2022, 18, e1009638.	3.5	3
41	Acute Toxic Effects of Telmisartan in Spontaneously Hypertensive Rats Fed a High Fructose Diet. <i>Physiological Research</i> , 2018, 67, 851-856.	0.9	2
42	Genetic Complementation of ATP Synthase Deficiency Due to Dysfunction of TMEM70 Assembly Factor in Rat. <i>Biomedicines</i> , 2022, 10, 276.	3.2	2
43	Fumaric acid esters can block pro-inflammatory actions of human CRP and ameliorate metabolic disturbances in transgenic spontaneously hypertensive rats. <i>Atherosclerosis</i> , 2014, 235, e268.	0.8	1
44	Genetically Determined Folate Deficiency Is Associated With Abnormal Hepatic Folate Profiles in the Spontaneously Hypertensive Rat. <i>Physiological Research</i> , 2018, 67, 417-422.	0.9	1
45	The effect of zinc and/or vitamin E supplementation on biochemical parameters of selenium-overdosed rats. <i>Polish Journal of Veterinary Sciences</i> , 2018, 21, 731-740.	0.2	1
46	We-P11:123 Long-term effects of pioglitazone on cardiovascular risk factors in sucrose FED rats. <i>Atherosclerosis Supplements</i> , 2006, 7, 373.	1.2	0
47	GW26-e2423 The role of mutant Plzf in metabolic and hemodynamic disturbances in spontaneously hypertensive rats. <i>Journal of the American College of Cardiology</i> , 2015, 66, C274-C275.	2.8	0