

David E Stec

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

96
papers

2,745
citations

32
h-index

49
g-index

104
ext. papers

3,296
ext. citations

4.4
avg, IF

5.34
L-index

#	Paper	IF	Citations
96	Obesity-induced hypertension: role of sympathetic nervous system, leptin, and melanocortins. <i>Journal of Biological Chemistry</i> , 2010 , 285, 17271-6	5.4	325
95	Protective effect of carbon monoxide-releasing compounds in ischemia-induced acute renal failure. <i>Journal of the American Society of Nephrology: JASN</i> , 2005 , 16, 950-8	12.7	116
94	Functional polymorphism in human CYP4F2 decreases 20-HETE production. <i>Physiological Genomics</i> , 2007 , 30, 74-81	3.6	107
93	Bilirubin Binding to PPAR α Inhibits Lipid Accumulation. <i>PLoS ONE</i> , 2016 , 11, e0153427	3.7	101
92	Induction of heme oxygenase 1 attenuates placental ischemia-induced hypertension. <i>Hypertension</i> , 2011 , 57, 941-8	8.5	92
91	Biliverdin reductase isozymes in metabolism. <i>Trends in Endocrinology and Metabolism</i> , 2015 , 26, 212-20	8.8	81
90	Bilirubin in the Liver-Gut Signaling Axis. <i>Trends in Endocrinology and Metabolism</i> , 2018 , 29, 140-150	8.8	80
89	Biliverdin Reductase A Attenuates Hepatic Steatosis by Inhibition of Glycogen Synthase Kinase (GSK) 3 β Phosphorylation of Serine 73 of Peroxisome Proliferator-activated Receptor (PPAR) α <i>Journal of Biological Chemistry</i> , 2016 , 291, 25179-25191	5.4	77
88	Efficient liver-specific deletion of a floxed human angiotensinogen transgene by adenoviral delivery of Cre recombinase in vivo. <i>Journal of Biological Chemistry</i> , 1999 , 274, 21285-90	5.4	68
87	Renal vascular responses to CORM-A1 in the mouse. <i>Pharmacological Research</i> , 2006 , 54, 24-9	10.2	62
86	HO-1 induction lowers blood pressure and superoxide production in the renal medulla of angiotensin II hypertensive mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2007 , 292, R1472-8	3.2	58
85	Lean heart: Role of leptin in cardiac hypertrophy and metabolism. <i>World Journal of Cardiology</i> , 2015 , 7, 511-24	2.1	54
84	ENaC proteins contribute to VSMC migration. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H3076-86	5.2	52
83	Glucocorticoid Receptor α Induces Hepatic Steatosis by Augmenting Inflammation and Inhibition of the Peroxisome Proliferator-activated Receptor (PPAR) α <i>Journal of Biological Chemistry</i> , 2016 , 291, 25776-25788	5.4	50
82	Systolic dysfunction in cardiac-specific ligand-inducible MerCreMer transgenic mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2011 , 301, H253-60	5.2	49
81	Mice with hyperbilirubinemia due to Gilbert's syndrome polymorphism are resistant to hepatic steatosis by decreased serine 73 phosphorylation of PPAR α <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2017 , 312, E244-E252	6	46
80	Fenofibrate prevents the development of angiotensin II-dependent hypertension in mice. <i>Hypertension</i> , 2005 , 45, 730-5	8.5	45

79	Lentiviral-human heme oxygenase targeting endothelium improved vascular function in angiotensin II animal model of hypertension. <i>Human Gene Therapy</i> , 2011 , 22, 271-82	4.8	44
78	Induction of heme oxygenase-1 attenuates sFlt-1-induced hypertension in pregnant rats. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011 , 301, R1495-500	3.2	43
77	Inhibition of bilirubin metabolism induces moderate hyperbilirubinemia and attenuates ANG II-dependent hypertension in mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R738-43	3.2	42
76	Kidney-specific induction of heme oxygenase-1 prevents angiotensin II hypertension. <i>Hypertension</i> , 2008 , 52, 660-5	8.5	41
75	Loss of hepatic PPAR α promotes inflammation and serum hyperlipidemia in diet-induced obesity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2019 , 317, R733-R743	3.2	39
74	Biliverdin reductase and bilirubin in hepatic disease. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 314, G668-G676	5.1	38
73	Heme oxygenase, a novel target for the treatment of hypertension and obesity?. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 302, R207-14	3.2	38
72	Role of carbon monoxide in blood pressure regulation. <i>Hypertension</i> , 2008 , 51, 597-604	8.5	37
71	Distribution of cytochrome P-450 4A and 4F isoforms along the nephron in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2003 , 284, F95-102	4.3	37
70	Bilirubin, a Cardiometabolic Signaling Molecule. <i>Hypertension</i> , 2018 , 72, 788-795	8.5	37
69	Bilirubin remodels murine white adipose tissue by reshaping mitochondrial activity and the coregulator profile of peroxisome proliferator-activated receptor α . <i>Journal of Biological Chemistry</i> , 2020 , 295, 9804-9822	5.4	35
68	Moderate hyperbilirubinemia improves renal hemodynamics in ANG II-dependent hypertension. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010 , 299, R1044-9	3.2	33
67	RNA sequencing in human HepG2 hepatocytes reveals PPAR α -mediates transcriptome responsiveness of bilirubin. <i>Physiological Genomics</i> , 2019 , 51, 234-240	3.6	32
66	Loss of biliverdin reductase-A promotes lipid accumulation and lipotoxicity in mouse proximal tubule cells. <i>American Journal of Physiology - Renal Physiology</i> , 2018 , 315, F323-F331	4.3	32
65	Rescue of cardiac leptin receptors in db/db mice prevents myocardial triglyceride accumulation. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2014 , 307, E316-25	6	32
64	Genetic suppression of HO-1 exacerbates renal damage: reversed by an increase in the antiapoptotic signaling pathway. <i>American Journal of Physiology - Renal Physiology</i> , 2007 , 292, F148-57	4.3	31
63	Does bilirubin prevent hepatic steatosis through activation of the PPAR α nuclear receptor?. <i>Medical Hypotheses</i> , 2016 , 95, 54-57	3.8	28
62	Cardiomyocyte-specific deletion of leptin receptors causes lethal heart failure in Cre-recombinase-mediated cardiotoxicity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2012 , 303, R1241-50	3.2	27

61	ENaC proteins are required for NGF-induced neurite growth. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C404-10	5-4	27
60	Biliverdin Reductase A (BVRA) Knockout in Adipocytes Induces Hypertrophy and Reduces Mitochondria in White Fat of Obese Mice. <i>Biomolecules</i> , 2020 , 10,	5-9	26
59	Heme oxygenase-1 induction does not improve vascular relaxation in angiotensin II hypertensive mice. <i>American Journal of Hypertension</i> , 2008 , 21, 189-93	2-3	25
58	Heme oxygenase inhibition increases blood pressure in pregnant rats. <i>American Journal of Hypertension</i> , 2013 , 26, 924-30	2-3	24
57	Heme oxygenase attenuates angiotensin II-mediated superoxide production in cultured mouse thick ascending loop of Henle cells. <i>American Journal of Physiology - Renal Physiology</i> , 2008 , 295, F1158-65	4-3	24
56	Bilirubin Safeguards Cardiorenal and Metabolic Diseases: a Protective Role in Health. <i>Current Hypertension Reports</i> , 2019 , 21, 87	4-7	23
55	Bilirubin, a new therapeutic for kidney transplant?. <i>Transplantation Reviews</i> , 2018 , 32, 234-240	3-3	23
54	Chronic treatment with a carbon monoxide releasing molecule reverses dietary induced obesity in mice. <i>Adipocyte</i> , 2016 , 5, 1-10	3-2	22
53	Altered myogenic vasoconstriction and regulation of whole kidney blood flow in the ASIC2 knockout mouse. <i>American Journal of Physiology - Renal Physiology</i> , 2015 , 308, F339-48	4-3	21
52	Bilirubin Nanoparticles Reduce Diet-Induced Hepatic Steatosis, Improve Fat Utilization, and Increase Plasma β -Hydroxybutyrate. <i>Frontiers in Pharmacology</i> , 2020 , 11, 594574	5-6	21
51	CRISPR Cas9-mediated deletion of biliverdin reductase A (BVRA) in mouse liver cells induces oxidative stress and lipid accumulation. <i>Archives of Biochemistry and Biophysics</i> , 2019 , 672, 108072	4-1	20
50	Expression of heme oxygenase-1 in thick ascending loop of henle attenuates angiotensin II-dependent hypertension. <i>Journal of the American Society of Nephrology: JASN</i> , 2012 , 23, 834-41	12-7	20
49	Bilirubin as a metabolic hormone: the physiological relevance of low levels. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2021 , 320, E191-E207	6	20
48	Positive Effects of Heme Oxygenase Upregulation on Adiposity and Vascular Dysfunction: Gene Targeting vs. Pharmacologic Therapy. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6-3	19
47	Cold Press Pomegranate Seed Oil Attenuates Dietary-Obesity Induced Hepatic Steatosis and Fibrosis through Antioxidant and Mitochondrial Pathways in Obese Mice. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6-3	19
46	Antihypertensive actions of moderate hyperbilirubinemia: role of superoxide inhibition. <i>American Journal of Hypertension</i> , 2013 , 26, 918-23	2-3	18
45	Renal inflammation and elevated blood pressure in a mouse model of reduced β -ENaC. <i>American Journal of Physiology - Renal Physiology</i> , 2011 , 301, F443-9	4-3	17
44	A Novel Fluorescence-Based Assay for the Measurement of Biliverdin Reductase Activity. <i>Reactive Oxygen Species (Apex, N C)</i> , 2018 , 5, 35-45	4-7	16

43	Inhibition of biliverdin reductase increases ANG II-dependent superoxide levels in cultured renal tubular epithelial cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R1546-53	3.2	15
42	Blood pressure and renal flow responses in heme oxygenase-2 knockout mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2009 , 297, R1822-8	3.2	15
41	Carbon monoxide (CO) protects renal tubular epithelial cells against cold-rewarm apoptosis. <i>Renal Failure</i> , 2007 , 29, 543-8	2.9	15
40	Carbon Monoxide Releasing Molecules Blunt Placental Ischemia-Induced Hypertension. <i>American Journal of Hypertension</i> , 2017 , 30, 931-937	2.3	14
39	Targeting Heme Oxygenase-1 in Cardiovascular and Kidney Disease. <i>Antioxidants</i> , 2019 , 8,	7.1	14
38	Cold-Pressed Oil Standardized to 3% Thymoquinone Potentiates Omega-3 Protection against Obesity-Induced Oxidative Stress, Inflammation, and Markers of Insulin Resistance Accompanied with Conversion of White to Beige Fat in Mice. <i>Antioxidants</i> , 2020 , 9,	7.1	14
37	Bilirubin, renal hemodynamics, and blood pressure. <i>Frontiers in Pharmacology</i> , 2012 , 3, 18	5.6	14
36	Rats Genetically Selected for High Aerobic Exercise Capacity Have Elevated Plasma Bilirubin by Upregulation of Hepatic Biliverdin Reductase-A (BVRA) and Suppression of UGT1A1. <i>Antioxidants</i> , 2020 , 9,	7.1	13
35	Deletion of Biliverdin Reductase A in Myeloid Cells Promotes Chemokine Expression and Chemotaxis in Part via a Complement C5a--C5aR1 Pathway. <i>Journal of Immunology</i> , 2019 , 202, 2982-2990	5.3	11
34	Heme oxygenase-1 is a potent inhibitor of placental ischemia-mediated endothelin-1 production in cultured human glomerular endothelial cells. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018 , 314, R427-R432	3.2	11
33	Natural Product Heme Oxygenase Inducers as Treatment for Nonalcoholic Fatty Liver Disease. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	11
32	Sex-specific effects of heme oxygenase-2 deficiency on renovascular hypertension. <i>Journal of the American Society of Hypertension</i> , 2013 , 7, 328-35		10
31	Heme oxygenase induction attenuates TNF- α -induced hypertension in pregnant rodents. <i>Frontiers in Pharmacology</i> , 2015 , 6, 165	5.6	10
30	Renal Inhibition of Heme Oxygenase-1 Increases Blood Pressure in Angiotensin II-Dependent Hypertension. <i>International Journal of Hypertension</i> , 2012 , 2012, 497213	2.4	10
29	Sex-Dependent Effects of HO-1 Deletion from Adipocytes in Mice. <i>International Journal of Molecular Sciences</i> , 2017 , 18,	6.3	9
28	In vivo inhibition of renal heme oxygenase with an imidazole-dioxolane inhibitor. <i>Pharmacological Research</i> , 2010 , 61, 525-30	10.2	9
27	ENaC acts as a mechanosensor in renal vascular smooth muscle cells that contributes to renal myogenic blood flow regulation, protection from renal injury and hypertension 2015 , 1, 1-9		9
26	Milk thistle seed cold press oil attenuates markers of the metabolic syndrome in a mouse model of dietary-induced obesity. <i>Journal of Food Biochemistry</i> , 2020 , 44, e13522	3.3	7

25	Vascular smooth muscle-specific deletion of the leptin receptor attenuates leptin-induced alterations in vascular relaxation. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2016 , 310, R960-7	3.2	6
24	Changes in urinary metabolome related to body fat involve intermediates of choline processing by gut microbiota. <i>Heliyon</i> , 2019 , 5, e01497	3.6	4
23	Renal intramedullary infusion of tempol normalizes the blood pressure response to intrarenal blockade of heme oxygenase-1 in angiotensin II-dependent hypertension. <i>Journal of the American Society of Hypertension</i> , 2016 , 10, 346-51		4
22	Inhalation of carbon monoxide is ineffective as a long-term therapy to reduce obesity in mice fed a high fat diet. <i>BMC Obesity</i> , 2014 , 1, 6	3.6	4
21	Adipose-Specific PPAR γ Knockout Mice Have Increased Lipogenesis by PASK-SREBP1 Signaling and a Polarity Shift to Inflammatory Macrophages in White Adipose Tissue.. <i>Cells</i> , 2021 , 11,	7.9	4
20	Increased Sirt1 secreted from visceral white adipose tissue is associated with improved glucose tolerance in obese Nrf2-deficient mice. <i>Redox Biology</i> , 2021 , 38, 101805	11.3	4
19	Heme-oxygenase and lipid mediators in obesity and associated cardiometabolic diseases: Therapeutic implications. <i>Pharmacology & Therapeutics</i> , 2021 , 107975	13.9	4
18	The Effect of Gut Bacterial β -Glucuronidase on Serum Bilirubin Levels. <i>FASEB Journal</i> , 2018 , 32, 875.1	0.9	1
17	Bilirubin: A Ligand of the PPAR γ Nuclear Receptor 2021 , 463-482		1
16	Antihypertensive Actions of Moderate Hyperbilirubinemia: Role of Superoxide Inhibition. <i>FASEB Journal</i> , 2012 , 26, 878.6	0.9	0
15	Heme Oxygenase and the Kidney. <i>Colloquium Series on Integrated Systems Physiology From Molecule To Function</i> , 2011 , 3, 1-80		
14	Renal Medullary Infusion of CoPP Prevents Angiotensin-II Dependent Hypertension in Mice. <i>FASEB Journal</i> , 2007 , 21, A895	0.9	
13	Rapid cardiac dysfunction caused by inducible cardiac specific leptin receptor deletion. <i>FASEB Journal</i> , 2008 , 22, 743.3	0.9	
12	Inhibition of bilirubin metabolism attenuates angiotensin-II dependent hypertension in mice. <i>FASEB Journal</i> , 2008 , 22, 183-183	0.9	
11	Bilirubin Induces the Burning of Fat via the Nuclear Receptor PPAR γ <i>FASEB Journal</i> , 2018 , 32, 603.5	0.9	
10	Loss of biliverdin reductase-A (BVRA) promotes lipid accumulation and lipotoxicity in mouse proximal tubule cells. <i>FASEB Journal</i> , 2018 , 32, 849.1	0.9	
9	Sex-dependent protection from high fat diet-induced metabolic disease in mice lacking Degenerin proteins. <i>FASEB Journal</i> , 2019 , 33, 592.3	0.9	
8	Liver specific knockout of biliverdin reductase-A (BVRA) enhances high fat diet induced hepatic steatosis and type II diabetes in mice. <i>FASEB Journal</i> , 2015 , 29, 1004.6	0.9	

- 7 Rescue of cardiac leptin receptor improves diastolic function and prevents cardiac lipid accumulation in db/db mice. *FASEB Journal*, **2009**, 23, 953.7 0.9
- 6 Two common variants in the human CYP4F2 gene result in substantial alterations in vitamin E-hydroxylase specific activity. *FASEB Journal*, **2010**, 24, 552.2 0.9
- 5 Moderate Hyperbilirubinemia Improves Renal Hemodynamics in Angiotensin II-Dependent Hypertension. *FASEB Journal*, **2010**, 24, 1025.11 0.9
- 4 In vivo Inhibition of Renal Heme Oxygenase-1 with an Imidazole-Dioxolane Inhibitor, QC-13.. *FASEB Journal*, **2010**, 24, 1025.4 0.9
- 3 Chronic Carbon Monoxide Treatment Attenuates the Development of Obesity and Remodels Adipocytes in Mice Fed a High Fat Diet. *FASEB Journal*, **2013**, 27, 1154.4 0.9
- 2 Renal Intramedullary Infusion of Tempol Normalizes the Blood Pressure Response to Intrarenal Blockade of Heme Oxygenase-1 in Angiotensin II-Dependent Hypertension. *FASEB Journal*, **2013**, 27, 1115.1 0.9
- 1 Vascular smooth muscle specific deletion of the leptin receptor attenuates leptin-induced vascular dysfunction. *FASEB Journal*, **2013**, 27, 1114.9 0.9