

Annayya R Aroor

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

4,621
citations

81743

39
h-index

102304

66
g-index

82
all docs

82
docs citations

82
times ranked

6753
citing authors

#	ARTICLE	IF	CITATIONS
1	The pathophysiology of hypertension in patients with obesity. <i>Nature Reviews Endocrinology</i> , 2014, 10, 364-376.	4.3	376
2	Endothelial cell senescence in aging-related vascular dysfunction. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019, 1865, 1802-1809.	1.8	232
3	Sodium glucose transporter 2 (SGLT2) inhibition with empagliflozin improves cardiac diastolic function in a female rodent model of diabetes. <i>Cardiovascular Diabetology</i> , 2017, 16, 9.	2.7	205
4	Maladaptive immune and inflammatory pathways lead to cardiovascular insulin resistance. <i>Metabolism: Clinical and Experimental</i> , 2013, 62, 1543-1552.	1.5	182
5	MAP kinase signaling in diverse effects of ethanol. <i>Life Sciences</i> , 2004, 74, 2339-2364.	2.0	178
6	Insulin Resistance and Heart Failure. <i>Heart Failure Clinics</i> , 2012, 8, 609-617.	1.0	166
7	Uric Acid - Key Ingredient in the Recipe for Cardiorenal Metabolic Syndrome. <i>CardioRenal Medicine</i> , 2013, 3, 208-220.	0.7	164
8	The Role of Tissue Renin-Angiotensin-Aldosterone System in the Development of Endothelial Dysfunction and Arterial Stiffness. <i>Frontiers in Endocrinology</i> , 2013, 4, 161.	1.5	146
9	Endothelial Mineralocorticoid Receptor Mediates Diet-Induced Aortic Stiffness in Females. <i>Circulation Research</i> , 2016, 118, 935-943.	2.0	142
10	Low-Dose Mineralocorticoid Receptor Blockade Prevents Western Diet-Induced Arterial Stiffening in Female Mice. <i>Hypertension</i> , 2015, 66, 99-107.	1.3	125
11	Uric Acid Promotes Left Ventricular Diastolic Dysfunction in Mice Fed a Western Diet. <i>Hypertension</i> , 2015, 65, 531-539.	1.3	114
12	Cellular mechanisms underlying obesity-induced arterial stiffness. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 314, R387-R398.	0.9	112
13	Glycemic control by the SGLT2 inhibitor empagliflozin decreases aortic stiffness, renal resistivity index and kidney injury. <i>Cardiovascular Diabetology</i> , 2018, 17, 108.	2.7	112
14	Endothelial Mineralocorticoid Receptor Deletion Prevents Diet-Induced Cardiac Diastolic Dysfunction in Females. <i>Hypertension</i> , 2015, 66, 1159-1167.	1.3	111
15	Vascular stiffness in insulin resistance and obesity. <i>Frontiers in Physiology</i> , 2015, 6, 231.	1.3	100
16	Obesity and Insulin Resistance Induce Early Development of Diastolic Dysfunction in Young Female Mice Fed a Western Diet. <i>Endocrinology</i> , 2013, 154, 3632-3642.	1.4	99
17	Overnutrition, mTOR signaling, and cardiovascular diseases. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2014, 307, R1198-R1206.	0.9	96
18	Dipeptidylpeptidase Inhibition Is Associated with Improvement in Blood Pressure and Diastolic Function in Insulin-Resistant Male Zucker Obese Rats. <i>Endocrinology</i> , 2013, 154, 2501-2513.	1.4	86

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19	Dipeptidyl peptidase inhibition prevents diastolic dysfunction and reduces myocardial fibrosis in a Mouse model of Western diet induced obesity. <i>Metabolism: Clinical and Experimental</i> , 2014, 63, 1000-1011.	1.5	86
20	Mineralocorticoid Receptor Antagonism Treats Obesity-Associated Cardiac Diastolic Dysfunction. <i>Hypertension</i> , 2015, 65, 1082-1088.	1.3	84
21	Dipeptidyl Peptidase-4 Inhibition Ameliorates Western Diet-Induced Hepatic Steatosis and Insulin Resistance Through Hepatic Lipid Remodeling and Modulation of Hepatic Mitochondrial Function. <i>Diabetes</i> , 2015, 64, 1988-2001.	0.3	69
22	Oxidative Stress and Obesity: The Chicken or the Egg?. <i>Diabetes</i> , 2014, 63, 2216-2218.	0.3	68
23	Empagliflozin reduces high glucose-induced oxidative stress and miR-21-dependent TRAF3IP2 induction and RECK suppression, and inhibits human renal proximal tubular epithelial cell migration and epithelial-to-mesenchymal transition. <i>Cellular Signalling</i> , 2020, 68, 109506.	1.7	68
24	Mineralocorticoid receptor blockade prevents Western diet-induced diastolic dysfunction in female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015, 308, H1126-H1135.	1.5	64
25	DPP4 inhibition attenuates filtration barrier injury and oxidant stress in the Zucker obese rat. <i>Obesity</i> , 2014, 22, 2172-2179.	1.5	62
26	Epithelial Sodium Channel in Aldosterone-Induced Endothelium Stiffness and Aortic Dysfunction. <i>Hypertension</i> , 2018, 72, 731-738.	1.3	61
27	Epigenetic effects of ethanol on liver and gastrointestinal injury. <i>World Journal of Gastroenterology</i> , 2006, 12, 5265.	1.4	60
28	Dipeptidyl peptidase-4 (DPP-4) inhibition with linagliptin reduces western diet-induced myocardial TRAF3IP2 expression, inflammation and fibrosis in female mice. <i>Cardiovascular Diabetology</i> , 2017, 16, 61.	2.7	58
29	The SGLT2 inhibitor Empagliflozin attenuates interleukin-17A-induced human aortic smooth muscle cell proliferation and migration by targeting TRAF3IP2/ROS/NLRP3/Caspase-1-dependent IL-1 β and IL-18 secretion. <i>Cellular Signalling</i> , 2021, 77, 109825.	1.7	54
30	Empagliflozin Ameliorates Type 2 Diabetes-Induced Ultrastructural Remodeling of the Neurovascular Unit and Neuroglia in the Female db/db Mouse. <i>Brain Sciences</i> , 2019, 9, 57.	1.1	53
31	Differential Changes in MAP Kinases, Histone Modifications, and Liver Injury in Rats Acutely Treated With Ethanol. <i>Alcoholism: Clinical and Experimental Research</i> , 2010, 34, 1543-1551.	1.4	52
32	Mitochondria and Oxidative Stress in the Cardiorenal Metabolic Syndrome. <i>CardioRenal Medicine</i> , 2012, 2, 87-109.	0.7	52
33	Arterial Stiffness: A Nexus between Cardiac and Renal Disease. <i>CardioRenal Medicine</i> , 2014, 4, 60-71.	0.7	50
34	Uric acid promotes vascular stiffness, maladaptive inflammatory responses and proteinuria in western diet fed mice. <i>Metabolism: Clinical and Experimental</i> , 2017, 74, 32-40.	1.5	49
35	The role of mineralocorticoid receptor signaling in the cross-talk between adipose tissue and the vascular wall. <i>Cardiovascular Research</i> , 2017, 113, 1055-1063.	1.8	47
36	Prevention of Obesity-Induced Renal Injury in Male Mice by DPP4 Inhibition. <i>Endocrinology</i> , 2014, 155, 2266-2276.	1.4	46

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37	Fructose and Uric Acid: Is There a Role in Endothelial Function?. <i>Current Hypertension Reports</i> , 2014, 16, 434.	1.5	45
38	The combination of a neprilysin inhibitor (sacubitril) and angiotensin-II receptor blocker (valsartan) attenuates glomerular and tubular injury in the Zucker Obese rat. <i>Cardiovascular Diabetology</i> , 2019, 18, 40.	2.7	45
39	Elevated Activation of ERK1 and ERK2 Accompany Enhanced Liver Injury Following Alcohol Binge in Chronically Ethanol-Fed Rats. <i>Alcoholism: Clinical and Experimental Research</i> , 2011, 35, 2128-2138.	1.4	41
40	Diet-Induced Obesity Promotes Kidney Endothelial Stiffening and Fibrosis Dependent on the Endothelial Mineralocorticoid Receptor. <i>Hypertension</i> , 2019, 73, 849-858.	1.3	41
41	Epithelial sodium channels in endothelial cells mediate diet-induced endothelium stiffness and impaired vascular relaxation in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2019, 99, 57-66.	1.5	40
42	Amiloride Improves Endothelial Function and Reduces Vascular Stiffness in Female Mice Fed a Western Diet. <i>Frontiers in Physiology</i> , 2017, 8, 456.	1.3	37
43	Dipeptidyl peptidase-4 inhibition with linagliptin prevents western diet-induced vascular abnormalities in female mice. <i>Cardiovascular Diabetology</i> , 2016, 15, 94.	2.7	36
44	Enhanced endothelium epithelial sodium channel signaling prompts left ventricular diastolic dysfunction in obese female mice. <i>Metabolism: Clinical and Experimental</i> , 2018, 78, 69-79.	1.5	35
45	Deficiency of IL12p40 (Interleukin 12 p40) Promotes Ang II (Angiotensin II)-Induced Abdominal Aortic Aneurysm. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2019, 39, 212-223.	1.1	34
46	Daily exercise prevents diastolic dysfunction and oxidative stress in a female mouse model of western diet induced obesity by maintaining cardiac heme oxygenase-1 levels. <i>Metabolism: Clinical and Experimental</i> , 2017, 66, 14-22.	1.5	32
47	Histone H3 Phosphorylation (Ser10, Ser28) and Phosphoacetylation (K9S10) Are Differentially Associated with Gene Expression in Liver of Rats Treated In Vivo with Acute Ethanol. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2012, 340, 237-247.	1.3	30
48	Angiotensin II Stimulation of DPP4 Activity Regulates Megalin in the Proximal Tubules. <i>International Journal of Molecular Sciences</i> , 2016, 17, 780.	1.8	29
49	A proteomic analysis of liver after ethanol binge in chronically ethanol treated rats. <i>Proteome Science</i> , 2012, 10, 29.	0.7	26
50	Xanthine oxidase inhibition protects against Western diet-induced aortic stiffness and impaired vasorelaxation in female mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2017, 313, R67-R77.	0.9	23
51	The role of dipeptidylpeptidase-4 inhibitors in management of cardiovascular disease in diabetes; focus on linagliptin. <i>Cardiovascular Diabetology</i> , 2018, 17, 59.	2.7	23
52	Sexual Dimorphism in Obesity-Associated Endothelial ENaC Activity and Stiffening in Mice. <i>Endocrinology</i> , 2019, 160, 2918-2928.	1.4	22
53	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Model-Part II: Microglia and Mitochondria. <i>Neuroglia (Basel, Switzerland)</i> , 2018, 1, 311-326.	0.3	21
54	In Vivo Acute on Chronic Ethanol Effects in Liver: A Mouse Model Exhibiting Exacerbated Injury, Altered Metabolic and Epigenetic Responses. <i>Biomolecules</i> , 2015, 5, 3280-3294.	1.8	18

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55	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Modelâ€”Part I: Astrocyte. <i>Neuroglia</i> (Basel, Switzerland), 2018, 1, 220-244.	0.3	18
56	Sacubitril/valsartan inhibits obesity-associated diastolic dysfunction through suppression of ventricular-vascular stiffness. <i>Cardiovascular Diabetology</i> , 2021, 20, 80.	2.7	18
57	Dysregulated phosphorylation and nuclear translocation of cyclic AMP response element binding protein (CREB) in rat liver after chronic ethanol binge. <i>European Journal of Pharmacology</i> , 2012, 679, 101-108.	1.7	16
58	Epigenetic histone modifications in a clinically relevant rat model of chronic ethanol-binge-mediated liver injury. <i>Hepatology International</i> , 2014, 8, 421-430.	1.9	16
59	Potential Role of Antihypertensive Medications in Preventing Excessive Arterial Stiffening. <i>Current Hypertension Reports</i> , 2018, 20, 76.	1.5	15
60	PHOSPHATIDYLETHANOL MIMICS ETHANOL MODULATION OF p42/44 MITOGEN-ACTIVATED PROTEIN KINASE SIGNALLING IN HEPATOCYTES. <i>Alcohol and Alcoholism</i> , 2002, 37, 534-539.	0.9	13
61	Endothelial sodium channel activation promotes cardiac stiffness and diastolic dysfunction in Western diet fed female mice. <i>Metabolism: Clinical and Experimental</i> , 2020, 109, 154223.	1.5	13
62	Tissue-Specific Expression of GLP1R in Mice: Is the Problem of Antibody Nonspecificity Solved?. <i>Diabetes</i> , 2014, 63, 1182-1184.	0.3	12
63	Glucagon-Like Peptide 1 Receptor Activation and Platelet Function: Beyond Glycemic Control. <i>Diabetes</i> , 2016, 65, 1487-1489.	0.3	12
64	Absence of Endothelial ERÎ± Results in Arterial Remodeling and Decreased Stiffness in Western Dietâ€”Fed Male Mice. <i>Endocrinology</i> , 2017, 158, 1875-1885.	1.4	10
65	Ultrastructural Remodeling of the Neurovascular Unit in the Female Diabetic db/db Modelâ€”Part III: Oligodendrocyte and Myelin. <i>Neuroglia</i> (Basel, Switzerland), 2018, 1, 351-367.	0.3	8
66	Chronic Elevation of Endothelin-1 Alone May Not Be Sufficient to Impair Endothelium-Dependent Relaxation. <i>Hypertension</i> , 2019, 74, 1409-1419.	1.3	8
67	DPP4 inhibition mitigates ANG II-mediated kidney immune activation and injury in male mice. <i>American Journal of Physiology - Renal Physiology</i> , 2021, 320, F505-F517.	1.3	7
68	Binge ethanol intake in chronically exposed rat liver decreases LDL-receptor and increases angiotensinogen gene expression. <i>World Journal of Hepatology</i> , 2011, 3, 250.	0.8	7
69	Cystamine reduces vascular stiffness in Western diet-fed female mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2022, 322, H167-H180.	1.5	7
70	Endothelial sodium channel activation mediates DOCA-salt-induced endothelial cell and arterial stiffening. <i>Metabolism: Clinical and Experimental</i> , 2022, 130, 155165.	1.5	7
71	Activation of MEK 1/2 and p42/44 MAPK by angiotensin II in hepatocyte nucleus and their potentiation by ethanol. <i>Alcohol</i> , 2009, 43, 315-322.	0.8	6
72	Utility of obesity and metabolic dyslipidemia (a nonâ€”insulin based determinate of the metabolic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 00 2019, 21, 1071-1074.	1.0	6

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73	Binge Alcohol Is More Injurious to Liver in Female than in Male Rats: Histopathological, Pharmacologic, and Epigenetic Profiles. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2019, 370, 390-398.	1.3	6
74	Mineralocorticoid Receptor in Myeloid Cells Mediates Angiotensin II-Induced Vascular Dysfunction in Female Mice. <i>Frontiers in Physiology</i> , 2021, 12, 588358.	1.3	4
75	Renal resistive index as a novel biomarker for cardiovascular and kidney risk reduction in type II diabetes. <i>Journal of Clinical Hypertension</i> , 2020, 22, 231-233.	1.0	3
76	Overview of Autophagy and Cardiometabolic Syndrome. , 2018, , 3-17.		1
77	Activation of ERK1/2 MAP kinase in rat liver in vivo after binge and chronic binge ethanol intake may augment liver injury. <i>FASEB Journal</i> , 2009, 23, 760.3.	0.2	1
78	Endothelium-dependent vasorelaxation and blood pressure are preserved in mice with chronic hyperendothelinemia. <i>FASEB Journal</i> , 2018, 32, lb327.	0.2	0
79	Regular exercise reduces adipose tissue inflammation and improves glycemic control in Western diet-fed mice despite hyperendothelinemia. <i>FASEB Journal</i> , 2018, 32, lb570.	0.2	0
80	Estrogen receptor alpha mediated activation of the endothelial epithelial sodium channel: role in the genesis of arterial stiffness. <i>FASEB Journal</i> , 2018, 32, 846.7.	0.2	0
81	SAT-LB011 Role of Endothelium Epithelial Sodium Channel in Arterial Stiffness. <i>Journal of the Endocrine Society</i> , 2019, 3, .	0.1	0