

Vaibhav B Patel, Mpharm

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58
papers

2,971
citations

29
h-index

54
g-index

66
ext. papers

3,531
ext. citations

5.3
avg, IF

5.3
L-index

#	Paper	IF	Citations
58	Role of the ACE2/Angiotensin 1-7 Axis of the Renin-Angiotensin System in Heart Failure. <i>Circulation Research</i> , 2016 , 118, 1313-26	15.7	478
57	Angiotensin II induced proteolytic cleavage of myocardial ACE2 is mediated by TACE/ADAM-17: a positive feedback mechanism in the RAS. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 66, 167-76	5.8	211
56	Cardioprotective effect of melatonin against isoproterenol induced myocardial infarction in rats: A biochemical, electrocardiographic and histoarchitectural evaluation. <i>European Journal of Pharmacology</i> , 2010 , 644, 160-8	5.3	152
55	Loss of Apelin exacerbates myocardial infarction adverse remodeling and ischemia-reperfusion injury: therapeutic potential of synthetic Apelin analogues. <i>Journal of the American Heart Association</i> , 2013 , 2, e000249	6	142
54	ACE2 Deficiency Worsens Epicardial Adipose Tissue Inflammation and Cardiac Dysfunction in Response to Diet-Induced Obesity. <i>Diabetes</i> , 2016 , 65, 85-95	0.9	138
53	Angiotensin 1-7 ameliorates diabetic cardiomyopathy and diastolic dysfunction in db/db mice by reducing lipotoxicity and inflammation. <i>Circulation: Heart Failure</i> , 2014 , 7, 327-39	7.6	134
52	Loss of angiotensin-converting enzyme-2 exacerbates diabetic cardiovascular complications and leads to systolic and vascular dysfunction: a critical role of the angiotensin II/AT1 receptor axis. <i>Circulation Research</i> , 2012 , 110, 1322-35	15.7	125
51	Epicardial adipose tissue as a metabolic transducer: role in heart failure and coronary artery disease. <i>Heart Failure Reviews</i> , 2017 , 22, 889-902	5	107
50	Agonist-induced hypertrophy and diastolic dysfunction are associated with selective reduction in glucose oxidation: a metabolic contribution to heart failure with normal ejection fraction. <i>Circulation: Heart Failure</i> , 2012 , 5, 493-503	7.6	104
49	Angiotensin 1-7 mediates renoprotection against diabetic nephropathy by reducing oxidative stress, inflammation, and lipotoxicity. <i>American Journal of Physiology - Renal Physiology</i> , 2014 , 306, F812-21	4.3	87
48	Cardioprotective effects mediated by angiotensin II type 1 receptor blockade and enhancing angiotensin 1-7 in experimental heart failure in angiotensin-converting enzyme 2-null mice. <i>Hypertension</i> , 2012 , 59, 1195-203	8.5	81
47	Differential role of TIMP2 and TIMP3 in cardiac hypertrophy, fibrosis, and diastolic dysfunction. <i>Cardiovascular Research</i> , 2014 , 103, 268-80	9.9	77
46	ACE2/Ang 1-7 axis: A critical regulator of epicardial adipose tissue inflammation and cardiac dysfunction in obesity. <i>Adipocyte</i> , 2016 , 5, 306-11	3.2	72
45	Tissue Inhibitor of Matrix Metalloproteinase-1 Promotes Myocardial Fibrosis by Mediating CD63-Integrin α Interaction. <i>Hypertension</i> , 2017 , 69, 1092-1103	8.5	71
44	Angiotensin-converting enzyme 2 is a critical determinant of angiotensin II-induced loss of vascular smooth muscle cells and adverse vascular remodeling. <i>Hypertension</i> , 2014 , 64, 157-64	8.5	70
43	Inside(sight) of tiny communicator: exosome biogenesis, secretion, and uptake. <i>Molecular and Cellular Biochemistry</i> , 2020 , 467, 77-94	4.2	65
42	Iron-overload injury and cardiomyopathy in acquired and genetic models is attenuated by resveratrol therapy. <i>Scientific Reports</i> , 2015 , 5, 18132	4.9	63

41	Role of angiotensin-converting enzyme 2 (ACE2) in diabetic cardiovascular complications. <i>Clinical Science</i> , 2014 , 126, 471-82	6.5	59
40	Nanosuspension of efavirenz for improved oral bioavailability: formulation optimization, in vitro, in situ and in vivo evaluation. <i>Drug Development and Industrial Pharmacy</i> , 2014 , 40, 80-91	3.6	53
39	Angiotensin-converting enzyme 2 antagonizes angiotensin II-induced pressor response and NADPH oxidase activation in Wistar-Kyoto rats and spontaneously hypertensive rats. <i>Experimental Physiology</i> , 2013 , 98, 109-22	2.4	52
38	Role of ACE2 in diastolic and systolic heart failure. <i>Heart Failure Reviews</i> , 2012 , 17, 683-91	5	50
37	Loss of p47phox subunit enhances susceptibility to biomechanical stress and heart failure because of dysregulation of cortactin and actin filaments. <i>Circulation Research</i> , 2013 , 112, 1542-56	15.7	47
36	Tomato lycopene attenuates myocardial infarction induced by isoproterenol: electrocardiographic, biochemical and anti-apoptotic study. <i>Asian Pacific Journal of Tropical Biomedicine</i> , 2012 , 2, 345-51	1.4	37
35	Antagonism of angiotensin 1-7 prevents the therapeutic effects of recombinant human ACE2. <i>Journal of Molecular Medicine</i> , 2015 , 93, 1003-13	5.5	34
34	Loss of TIMP3 selectively exacerbates diabetic nephropathy. <i>American Journal of Physiology - Renal Physiology</i> , 2012 , 303, F1341-52	4.3	34
33	PI3K-regulated gelsolin activity is a critical determinant of cardiac cytoskeletal remodeling and heart disease. <i>Nature Communications</i> , 2018 , 9, 5390	17.4	34
32	Recombinant Human ACE2 and the Angiotensin 1-7 Axis as Potential New Therapies for Heart Failure. <i>Canadian Journal of Cardiology</i> , 2017 , 33, 943-946	3.8	33
31	Murine recombinant angiotensin-converting enzyme 2 attenuates kidney injury in experimental Alport syndrome. <i>Kidney International</i> , 2017 , 91, 1347-1361	9.9	33
30	Loss of NOX2 (gp91phox) prevents oxidative stress and progression to advanced heart failure. <i>Clinical Science</i> , 2014 , 127, 331-40	6.5	32
29	Heterozygote loss of ACE2 is sufficient to increase the susceptibility to heart disease. <i>Journal of Molecular Medicine</i> , 2014 , 92, 847-58	5.5	28
28	A Disintegrin and Metalloprotease-17 Regulates Pressure Overload-Induced Myocardial Hypertrophy and Dysfunction Through Proteolytic Processing of Integrin β_1 . <i>Hypertension</i> , 2016 , 68, 937-48	8.5	26
27	Targeting angiotensin-converting enzyme 2 as a new therapeutic target for cardiovascular diseases. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014 , 92, 558-65	2.4	24
26	Targeting the ACE2 and Apelin Pathways Are Novel Therapies for Heart Failure: Opportunities and Challenges. <i>Cardiology Research and Practice</i> , 2012 , 2012, 823193	1.9	21
25	Perivascular adipose tissue dysfunction aggravates adventitial remodeling in obese mini pigs via NLRP3 inflammasome/IL-1 signaling pathway. <i>Acta Pharmacologica Sinica</i> , 2019 , 40, 46-54	8	20
24	Weight loss enhances cardiac energy metabolism and function in heart failure associated with obesity. <i>Diabetes, Obesity and Metabolism</i> , 2019 , 21, 1944-1955	6.7	18

23	Females Are Protected From Iron-Overload Cardiomyopathy Independent of Iron Metabolism: Key Role of Oxidative Stress. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	16
22	PI3K β s essential for the recovery from Cre/tamoxifen cardiotoxicity and in myocardial insulin signalling but is not required for normal myocardial contractility in the adult heart. <i>Cardiovascular Research</i> , 2015 , 105, 292-303	9.9	13
21	TIMP3 deficiency exacerbates iron overload-mediated cardiomyopathy and liver disease. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018 , 314, H978-H990	5.2	13
20	Protective effect of Clerodendron glandulosum extract against experimentally induced metabolic syndrome in rats. <i>Pharmaceutical Biology</i> , 2010 , 48, 1312-9	3.8	13
19	Doxorubicin mediated cardiotoxicity in rats: protective role of felodipine on cardiac indices. <i>Environmental Toxicology and Pharmacology</i> , 2013 , 36, 787-95	5.8	10
18	Micro-environment and intracellular metabolism modulation of adipose tissue macrophage polarization in relation to chronic inflammatory diseases. <i>Diabetes/Metabolism Research and Reviews</i> , 2018 , 34, e2993	7.5	9
17	Antihyperlipidemic potential of a polyherbal preparation on triton WR 1339 (Tyloxapol) induced hyperlipidemia: A comparison with lovastatin. <i>International Journal of Green Pharmacy</i> , 2009 , 3, 119	2	9
16	PI3K β Pathway Inhibition With Doxorubicin Treatment Results in Distinct Biventricular Atrophy and Remodeling With Right Ventricular Dysfunction. <i>Journal of the American Heart Association</i> , 2019 , 8, e010961	6.6	8
15	Hydrogen sulfide: an old gas with new cardioprotective effects. <i>Clinical Science</i> , 2015 , 128, 321-3	6.5	8
14	Cardioprotective and antihypertensive effects of <i>Enicostemma littorale</i> Blume extract in fructose-fed rats. <i>Canadian Journal of Physiology and Pharmacology</i> , 2012 , 90, 1065-73	2.4	8
13	Response to Comment on Patel et al. ACE2 Deficiency Worsens Epicardial Adipose Tissue Inflammation and Cardiac Dysfunction in Response to Diet-Induced Obesity. <i>Diabetes</i> 2016;65:85-95. <i>Diabetes</i> , 2016 , 65, e3-4	0.9	8
12	Advanced iron-overload cardiomyopathy in a genetic murine model is rescued by resveratrol therapy. <i>Bioscience Reports</i> , 2018 , 38,	4.1	8
11	Oreocnide integrifolia (Gaud.) Miq leaf water extract improves metabolic alterations in high fructose fed insulin resistant and hypertensive rats. <i>European Journal of Integrative Medicine</i> , 2010 , 2, 79-87	1.7	7
10	Low altitude simulation without hypoxia improves left ventricular function after myocardial infarction by reducing ventricular afterload. <i>PLoS ONE</i> , 2019 , 14, e0215814	3.7	5
9	Dual loss of PI3K β and PI3K δ signaling leads to an age-dependent cardiomyopathy. <i>Journal of Molecular and Cellular Cardiology</i> , 2014 , 77, 155-9	5.8	5
8	The protective effect of <i>Tinospora cordifolia</i> on various mast cell mediated allergic reactions. <i>Pharmaceutical Biology</i> , 2009 , 47, 1096-1106	3.8	4
7	Exosomes in Cardiovascular Diseases: Pathological Potential of Nano-Messenger. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 767488	5.4	4
6	Manipulating angiotensin metabolism with angiotensin converting enzyme 2 (ACE2) in heart failure. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2012 , 9, e141-e148		3

- 5 Potential role of epicardial adipose tissue in coronary artery endothelial cell dysfunction in type 2 diabetes. *FASEB Journal*, **2021**, 35, e21878 0.9 2
- 4 Proteomic Analysis Suggests Altered Mitochondrial Metabolic Profile Associated With Diabetic Cardiomyopathy.. *Frontiers in Cardiovascular Medicine*, **2022**, 9, 791700 5.4 2
- 3 The ACE2/Ang (1-7) Pathway in Cardiac Remodeling Due to Pressure Overload **2013**, 127-139
- 2 The Role of Neurohumoral Activation in Cardiac Fibrosis and Heart Failure **2015**, 347-381
- 1 Commentary: Cell therapy goes subcellular. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 1.5