

# Rebecca R Vanderpool

## List of Publications by Year in descending order

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Version: 2024-02-01

77  
papers

3,871  
citations

159358

30  
h-index

128067

60  
g-index

77  
all docs

77  
docs citations

77  
times ranked

4081  
citing authors

#	ARTICLE	IF	CITATIONS
1	Vascular stiffness mechanoactivates YAP/TAZ-dependent glutaminolysis to drive pulmonary hypertension. <i>Journal of Clinical Investigation</i> , 2016, 126, 3313-3335.	3.9	303
2	The transpulmonary pressure gradient for the diagnosis of pulmonary vascular disease. <i>European Respiratory Journal</i> , 2013, 41, 217-223.	3.1	273
3	RV-pulmonary arterial coupling predicts outcome in patients referred for pulmonary hypertension. <i>Heart</i> , 2015, 101, 37-43.	1.2	271
4	Exercise-induced Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2013, 187, 576-583.	2.5	253
5	Validation of the Tricuspid Annular Plane Systolic Excursion/Systolic Pulmonary Artery Pressure Ratio for the Assessment of Right Ventricular-Arterial Coupling in Severe Pulmonary Hypertension. <i>Circulation: Cardiovascular Imaging</i> , 2019, 12, e009047.	1.3	222
6	SIRT3 AMP-Activated Protein Kinase Activation by Nitrite and Metformin Improves Hyperglycemia and Normalizes Pulmonary Hypertension Associated With Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2016, 133, 717-731.	1.6	208
7	Accuracy and precision of echocardiography versus right heart catheterization for the assessment of pulmonary hypertension. <i>International Journal of Cardiology</i> , 2013, 168, 4058-4062.	0.8	182
8	Association Between Hemodynamic Markers of Pulmonary Hypertension and Outcomes in Heart Failure With Preserved Ejection Fraction. <i>JAMA Cardiology</i> , 2018, 3, 298.	3.0	162
9	Reserve of Right Ventricular-Arterial Coupling in the Setting of Chronic Overload. <i>Circulation: Heart Failure</i> , 2019, 12, e005512.	1.6	158
10	Exercise Stress Echocardiography of the Pulmonary Circulation. <i>Chest</i> , 2012, 142, 1158-1165.	0.4	149
11	Prognostic Relevance of Pulmonary Arterial Compliance in Patients With Chronic Heart Failure. <i>Chest</i> , 2014, 145, 1064-1070.	0.4	127
12	HIPPO Integrin-linked Kinase Cross-Talk Controls Self-Sustaining Proliferation and Survival in Pulmonary Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2016, 194, 866-877.	2.5	98
13	Statement on imaging and pulmonary hypertension from the Pulmonary Vascular Research Institute (PVRI). <i>Pulmonary Circulation</i> , 2019, 9, 1-32.	0.8	96
14	Imaging right ventricular function to predict outcome in pulmonary arterial hypertension. <i>International Journal of Cardiology</i> , 2016, 218, 206-211.	0.8	94
15	Exercise Pathophysiology in Patients With Chronic Mountain Sickness. <i>Chest</i> , 2012, 142, 877-884.	0.4	75
16	Cardiac Magnetic Resonance Imaging-Based Right Ventricular Strain Analysis for Assessment of Coupling and Diastolic Function in Pulmonary Hypertension. <i>JACC: Cardiovascular Imaging</i> , 2019, 12, 2155-2164.	2.3	75
17	Pulmonary Hypertension and Chronic Mountain Sickness. <i>High Altitude Medicine and Biology</i> , 2013, 14, 117-125.	0.5	63
18	Development of a Mouse Model of Metabolic Syndrome, Pulmonary Hypertension, and Heart Failure with Preserved Ejection Fraction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 56, 497-505.	1.4	61

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19	Simple functional imaging of the right ventricle in pulmonary hypertension: Can right ventricular ejection fraction be improved?. <i>International Journal of Cardiology</i> , 2016, 223, 93-94.	0.8	50
20	Pathogenic Role of mTORC1 and mTORC2 in Pulmonary Hypertension. <i>JACC Basic To Translational Science</i> , 2018, 3, 744-762.	1.9	47
21	Right ventricular function correlates of right atrial strain in pulmonary hypertension: a combined cardiac magnetic resonance and conductance catheter study. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020, 318, H156-H164.	1.5	42
22	Pulmonary vascular remodeling in isolated mouse lungs: Effects on pulsatile pressureâ€“flow relationships. <i>Journal of Biomechanics</i> , 2007, 40, 993-1001.	0.9	40
23	Dobutamine Stress Echocardiography for the Assessment of Pressure-Flow Relationships of the Pulmonary Circulation. <i>Chest</i> , 2014, 146, 959-966.	0.4	40
24	Right heart failure in pulmonary hypertension: Diagnosis and new perspectives on vascular and direct right ventricular treatment. <i>British Journal of Pharmacology</i> , 2021, 178, 90-107.	2.7	40
25	Direct Extracellular NAMPT Involvement in Pulmonary Hypertension and Vascular Remodeling. Transcriptional Regulation by SOX and HIF-2Î±. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 63, 92-103.	1.4	39
26	Effects of acute Rho kinase inhibition on chronic hypoxia-induced changes in proximal and distal pulmonary arterial structure and function. <i>Journal of Applied Physiology</i> , 2011, 110, 188-198.	1.2	38
27	Biomechanical and Hemodynamic Measures of Right Ventricular Diastolic Function: Translating Tissue Biomechanics to Clinical Relevance. <i>Journal of the American Heart Association</i> , 2017, 6, .	1.6	38
28	Pharmacological Inhibition of mTOR Kinase Reverses Right Ventricle Remodeling and Improves Right Ventricle Structure and Function in Rats. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 615-625.	1.4	37
29	How prostacyclin therapy improves right ventricular function in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2017, 50, 1700764.	3.1	36
30	Dynamic right ventricularâ€“pulmonary arterial uncoupling during maximum incremental exercise in exercise pulmonary hypertension and pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2019, 9, 1-10.	0.8	36
31	Tetramethylpyrazine: A promising drug for the treatment of pulmonary hypertension. <i>British Journal of Pharmacology</i> , 2020, 177, 2743-2764.	2.7	36
32	Hematocrit-corrected Pulmonary Vascular Resistance. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2018, 198, 305-309.	2.5	33
33	A novel single-beat approach to assess right ventricular systolic function. <i>Journal of Applied Physiology</i> , 2018, 124, 283-290.	1.2	31
34	Clinical implications of idiopathic pulmonary arterial hypertension phenotypes defined by cluster analysis. <i>Journal of Heart and Lung Transplantation</i> , 2020, 39, 310-320.	0.3	31
35	MicroRNA-mediated downregulation of K <sup>+</sup> channels in pulmonary arterial hypertension. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2020, 318, L10-L26.	1.3	25
36	Echocardiography of pulmonary vascular function in asymptomatic carriers of <i>BMPR2</i> mutations. <i>European Respiratory Journal</i> , 2012, 40, 1287-1289.	3.1	23

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37	Harnessing the Nitrateâ€“Nitriteâ€“Nitric Oxide Pathway for Therapy of Heart Failure With Preserved Ejection Fraction. <i>Circulation</i> , 2015, 131, 334-336.	1.6	22
38	Impaired right ventricular lusitropy is associated with ventilatory inefficiency in pulmonary arterial hypertension. <i>European Respiratory Journal</i> , 2019, 54, 1900342.	3.1	21
39	Diabetes Mellitus Associates with Increased Right Ventricular Afterload and Remodeling in Pulmonary Arterial Hypertension. <i>American Journal of Medicine</i> , 2018, 131, 702.e7-702.e13.	0.6	20
40	Treatment With Treprostinil and Metformin Normalizes Hyperglycemia and Improves Cardiac Function in Pulmonary Hypertension Associated With Heart Failure With Preserved Ejection Fraction. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020, 40, 1543-1558.	1.1	20
41	The Right Heart-Pulmonary Circulation Unit. <i>Heart Failure Clinics</i> , 2018, 14, 237-245.	1.0	18
42	Surfing the right ventricular pressure waveform: methods to assess global, systolic and diastolic RV function from a clinical right heart catheterization. <i>Pulmonary Circulation</i> , 2020, 10, 1-11.	0.8	18
43	Genetic Admixture and Survival in Diverse Populations with Pulmonary Arterial Hypertension. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2020, 201, 1407-1415.	2.5	18
44	Impedance in Isolated Mouse Lungs for the Determination of Site of Action of Vasoactive Agents and Disease. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1854-1861.	1.3	16
45	Association of right atrial conduit phase with right ventricular lusitropic function in pulmonary hypertension. <i>International Journal of Cardiovascular Imaging</i> , 2020, 36, 633-642.	0.7	16
46	Increased Pulmonary Vascular Resistance in Early Stage Systemic Hypertension: A Resting and Exercise Stress Echocardiography Study. <i>Canadian Journal of Cardiology</i> , 2015, 31, 537-543.	0.8	15
47	Incremental value of cardiopulmonary exercise testing in intermediate-risk pulmonary arterial hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 780-790.	0.3	13
48	When it all comes down to pressure: right ventricular ejection fraction at cardiac catheterisation. <i>European Respiratory Journal</i> , 2020, 55, 1902341.	3.1	12
49	Unmasking right ventricular-arterial uncoupling during fluid challenge in pulmonary hypertension. <i>Journal of Heart and Lung Transplantation</i> , 2022, 41, 345-355.	0.3	12
50	Transcriptomic profiles in pulmonary arterial hypertension associate with disease severity and identify novel candidate genes. <i>Pulmonary Circulation</i> , 2020, 10, 1-5.	0.8	11
51	Patchy deletion of <i>Bmpr1a</i> potentiates proximal pulmonary artery remodeling in mice exposed to chronic hypoxia. <i>Biomechanics and Modeling in Mechanobiology</i> , 2013, 12, 33-42.	1.4	10
52	Is p38 MAPK a Dark Force in Right Ventricular Hypertrophy and Failure in Pulmonary Arterial Hypertension?. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017, 57, 506-508.	1.4	10
53	Longitudinal Evaluation of Pulmonary Arterial Hypertension in a Rhesus Macaque ( <i>Macaca mulatta</i> ) Model of HIV Infection. <i>Comparative Medicine</i> , 2018, 68, 461-473.	0.4	10
54	Progress in Pulmonary Hypertension with Left Heart Failure. <i>Beyond New Definitions and Acronyms. American Journal of Respiratory and Critical Care Medicine</i> , 2015, 192, 1152-1154.	2.5	9

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55	The Right Ventricular-Pulmonary Arterial Coupling and Diastolic Function Response to Therapy in Pulmonary Arterial Hypertension. <i>Chest</i> , 2022, 161, 1048-1059.	0.4	9
56	Characterization of the Isolated, Ventilated, and Instrumented Mouse Lung Perfused with Pulsatile Flow. <i>Journal of Visualized Experiments</i> , 2011, , .	0.2	8
57	Differential effects of integrin-linked kinase inhibitor Cpd22 on severe pulmonary hypertension in male and female rats. <i>Pulmonary Circulation</i> , 2020, 10, 1-12.	0.8	8
58	Right ventricular load and contractility in HIV-associated pulmonary hypertension. <i>PLoS ONE</i> , 2021, 16, e0243274.	1.1	7
59	Relaxin Inhibits Ventricular Arrhythmia and Asystole in Rats With Pulmonary Arterial Hypertension. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 668222.	1.1	7
60	How to measure peripheral pulmonary vascular mechanics. , 2009, 2009, 173-6.		6
61	Comprehensive echocardiographic evaluation of the right heart in patients with pulmonary vascular diseases: the PVDOMICS experience. <i>European Heart Journal Cardiovascular Imaging</i> , 2022, 23, 958-969.	0.5	6
62	Right ventricular afterload predicts long-term transition from parenteral to oral treprostinil in pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2018, 8, 1-8.	0.8	5
63	Right ventricular dyssynchrony: from load-independent right ventricular function to wall stress in severe pulmonary arterial hypertension. <i>Pulmonary Circulation</i> , 2020, 10, 204589402092575.	0.8	5
64	Mineralocorticoid receptor antagonist treatment of established pulmonary arterial hypertension improves interventricular dependence in the SU5416-hypoxia rat model. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2022, 322, L315-L332.	1.3	4
65	Recent advancements in pulmonary arterial hypertension and right heart failure research: overview of selected abstracts from ATS2020 and emerging COVID-19 research. <i>Pulmonary Circulation</i> , 2021, 11, 1-13.	0.8	2
66	Comparing Pulmonary Input And Characteristic Impedance Determined In The Time And Frequency Domains: The Effects Of Chronic Hypoxia. , 2010, , .		1
67	Fixed Vs. Reactive Changes In The Pulmonary Vasculature With Chronic Hypoxia: Use Of A Hemodynamic Model To Interpret Pressure-flow Data. , 2010, , .		0
68	The Effects Of Pulmonary Vascular Collagen Accumulation On Right Ventricular Afterload Investigated Using A Genetically Engineered Mouse Model. , 2010, , .		0
69	Patchy Deletion Of Bmpr1a In Smooth Muscle Cells Potentiates Chronic Hypoxia-Induced Proximal Arterial Remodeling. , 2011, , .		0
70	Prediction Of Mean Pulmonary Artery Pressures At Exercise From Baseline Resting Measurements. , 2012, , .		0
71	Gender Differences In The Normal Human Pulmonary Circulation. , 2012, , .		0
72	Looking backwards: is it time to assess veno-atrial interactions in pulmonary arterial hypertension?. <i>European Respiratory Journal</i> , 2019, 54, 1901598.	3.1	0

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73	Advanced Imaging in Pulmonary Vascular Disease. Clinics in Chest Medicine, 2021, 42, 101-112.	0.8	0
74	Measurement of Pulmonary Impedance in Live Mice and Changes With Chronic Hypoxia. , 2010, , .		0
75	Circulating transcriptome as a signature for the diagnosis of pulmonary arterial hypertension.. FASEB Journal, 2018, 32, 586.4.	0.2	0
76	Increased Pulmonary Vascular Impedance in Patients with Severe Pulmonary Arterial Hypertension. FASEB Journal, 2019, 33, .	0.2	0
77	Early Hyperdynamic Sepsis Alters Coronary Blood Flow Regulation in Porcine Fecal Peritonitis. Frontiers in Physiology, 2021, 12, 754570.	1.3	0