

# Stephen F Vatner

## List of Publications by Year in Descending Order

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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.

120  
papers

6,385  
citations

43  
h-index

79  
g-index

131  
ext. papers

7,006  
ext. citations

8.6  
avg, IF

5.28  
L-index

#	Paper	IF	Citations
120	Adaptation to exercise-induced stress is not dependent on cardiomyocyte $\beta$ adrenergic receptors. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2021</b> , 155, 78-87	5.8	4
119	Secreted frizzled protein 3 is a novel cardioprotective mechanism unique to the clinically relevant fourth window of ischemic preconditioning. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2021</b> , 320, H798-H804	5.2	0
118	Vascular Stiffness in Aging and Disease.. <i>Frontiers in Physiology</i> , <b>2021</b> , 12, 762437	4.6	6
117	Mechanisms of increased vascular stiffness down the aortic tree in aging, premenopausal female monkeys. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2020</b> , 319, H222-H234	5.2	5
116	Rats are protected from the stress of chronic pressure overload compared with mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R894-R900	3.2	2
115	Secreted frizzled-related protein 2, a novel mechanism to induce myocardial ischemic protection through angiogenesis. <i>Basic Research in Cardiology</i> , <b>2020</b> , 115, 48	11.8	13
114	Reply to "Letter to the Editor: Mechanisms of sex differences in exercise capacity". <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2020</b> , 318, R158-R159	3.2	1
113	Healthful aging mediated by inhibition of oxidative stress. <i>Ageing Research Reviews</i> , <b>2020</b> , 64, 101194	12	39
112	Hsp22 overexpression induces myocardial hypertrophy, senescence and reduced life span through enhanced oxidative stress. <i>Free Radical Biology and Medicine</i> , <b>2019</b> , 137, 194-200	7.8	7
111	Mechanisms of sex differences in exercise capacity. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2019</b> , 316, R832-R838	3.2	16
110	Aortic Stiffness Increases More in the Abdominal Than the Thoracic Aorta in Aging Female Monkeys. <i>FASEB Journal</i> , <b>2019</b> , 33, 693.15	0.9	
109	A Novel Drug to Reduce Myocardial Infarct Size, Even When Administered After Coronary Artery Reperfusion. <i>FASEB Journal</i> , <b>2019</b> , 33, 817.2	0.9	
108	Enhanced longevity and metabolism by brown adipose tissue with disruption of the regulator of G protein signaling 14. <i>Ageing Cell</i> , <b>2018</b> , 17, e12751	9.9	21
107	Antioxidant defense and protection against cardiac arrhythmias: lessons from a mammalian hibernator (the woodchuck). <i>FASEB Journal</i> , <b>2018</b> , 32, 4229-4240	0.9	7
106	Adverse Cardiac Effects Due to Cardiac Specific Disruption of the Nuclear Receptor Corepressor 1 (NCOR1). <i>FASEB Journal</i> , <b>2018</b> , 32, 848.2	0.9	
105	A novel adenylyl cyclase type 5 inhibitor that reduces myocardial infarct size even when administered after coronary artery reperfusion. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2018</b> , 121, 13-15	5.8	7
104	Minority investigators lack NIH funding. <i>Science</i> , <b>2017</b> , 356, 1018-1019	33.3	

103	Disruption of adenylyl cyclase type 5 mimics exercise training. <i>Basic Research in Cardiology</i> , <b>2017</b> , 112, 59	11.8	13
102	Why So Few New Cardiovascular Drugs Translate to the Clinics. <i>Circulation Research</i> , <b>2016</b> , 119, 714-7	15.7	14
101	Response to Letter to the Editor on "Does Vidarabine Mediate Cardioprotection via Inhibition of AC5?". <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2016</b> , 358, 244-5	4.7	
100	A Food and Drug Administration-Approved Antiviral Agent that Inhibits Adenylyl Cyclase Type 5 Protects the Ischemic Heart Even When Administered after Reperfusion. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2016</b> , 357, 331-6	4.7	15
99	Reduced Oxidative Stress as a Mechanism for Increased Longevity, Exercise and Heart Failure Protection with Adenylyl Cyclase Type 5 Inhibition <b>2016</b> , 147-161		
98	Myocardial apoptosis in heart disease: does the emperor have clothes?. <i>Basic Research in Cardiology</i> , <b>2016</b> , 111, 31	11.8	53
97	Extracellular Matrix Disarray as a Mechanism for Greater Abdominal Versus Thoracic Aortic Stiffness With Aging in Primates. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2016</b> , 36, 700-6	9.4	32
96	Myocardial ischemic protection in natural mammalian hibernation. <i>Basic Research in Cardiology</i> , <b>2015</b> , 110, 9	11.8	15
95	Best anesthetics for assessing left ventricular systolic function by echocardiography in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H1525-9	5.2	39
94	Adenylyl Cyclase Type 5 Deficiency Protects Against Diet-Induced Obesity and Insulin Resistance. <i>Diabetes</i> , <b>2015</b> , 64, 2636-45	0.9	17
93	Overexpression of Cardiomyocyte $\beta$ 1A-Adrenergic Receptors Attenuates Postinfarct Remodeling by Inducing Angiogenesis Through Heterocellular Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , <b>2015</b> , 35, 2451-9	9.4	24
92	Augmented vascular smooth muscle cell stiffness and adhesion when hypertension is superimposed on aging. <i>Hypertension</i> , <b>2015</b> , 65, 370-7	8.5	76
91	Blockade of EMAP II protects cardiac function after chronic myocardial infarction by inducing angiogenesis. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2015</b> , 79, 224-31	5.8	16
90	Type 5 adenylyl cyclase disruption leads to enhanced exercise performance. <i>Aging Cell</i> , <b>2015</b> , 14, 1075-84	9.9	11
89	Reply to: "Letter to the editor: Ketamine-only versus isoflurane effects on murine cardiac function: comparison at similar depths of anesthesia?". <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 309, H2161	5.2	
88	"Smooth Muscle Cell Stiffness Syndrome"-Revisiting the Structural Basis of Arterial Stiffness. <i>Frontiers in Physiology</i> , <b>2015</b> , 6, 335	4.6	75
87	Inhibition of adenylyl cyclase type 5 increases longevity and healthful aging through oxidative stress protection. <i>Oxidative Medicine and Cellular Longevity</i> , <b>2015</b> , 2015, 250310	6.7	18
86	Reply to "Letter to the editor: When what you see may not be what you get: prudent considerations of anesthetics for murine echocardiography". <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2015</b> , 308, H1614	5.2	

85	Mst1 inhibition rescues $\beta$ -adrenergic cardiomyopathy by reducing myocyte necrosis and non-myocyte apoptosis rather than myocyte apoptosis. <i>Basic Research in Cardiology</i> , <b>2015</b> , 110, 7	11.8	15
84	Reduced malignancy as a mechanism for longevity in mice with adenylyl cyclase type 5 disruption. <i>Aging Cell</i> , <b>2014</b> , 13, 102-10	9.9	13
83	Disruption of type 5 adenylyl cyclase prevents $\beta$ -adrenergic receptor cardiomyopathy: a novel approach to $\beta$ -adrenergic receptor blockade. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2014</b> , 307, H1521-8	5.2	13
82	Calorie restriction can reverse, as well as prevent, aging cardiomyopathy. <i>Age</i> , <b>2013</b> , 35, 2177-82		43
81	Novel mechanisms for caspase inhibition protecting cardiac function with chronic pressure overload. <i>Basic Research in Cardiology</i> , <b>2013</b> , 108, 324	11.8	17
80	Adenylyl cyclase type 5 in cardiac disease, metabolism, and aging. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 305, H1-8	5.2	40
79	Proteomic mechanisms of cardioprotection during mammalian hibernation in woodchucks, <i>Marmota monax</i> . <i>Journal of Proteome Research</i> , <b>2013</b> , 12, 4221-9	5.6	8
78	Type 5 adenylyl cyclase increases oxidative stress by transcriptional regulation of manganese superoxide dismutase via the SIRT1/FoxO3a pathway. <i>Circulation</i> , <b>2013</b> , 127, 1692-701	16.7	71
77	Increased vascular smooth muscle cell stiffness: a novel mechanism for aortic stiffness in hypertension. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2013</b> , 305, H1281-7	5.2	116
76	Isolated Vascular Smooth Muscle Stiffness as a Common Mechanism to the Increased Aortic Stiffness of Aging and Hypertension. <i>FASEB Journal</i> , <b>2013</b> , 27, 1b687	0.9	
75	Common mechanisms for calorie restriction and adenylyl cyclase type 5 knockout models of longevity. <i>Aging Cell</i> , <b>2012</b> , 11, 1110-20	9.9	26
74	Prevention of heart failure in mice by an antiviral agent that inhibits type 5 cardiac adenylyl cyclase. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2012</b> , 302, H2622-8	5.2	40
73	Increased angiogenesis as a mechanism for the preserved cardiac function in rats with chronic pressure overload. <i>FASEB Journal</i> , <b>2012</b> , 26, 1054.17	0.9	
72	Mechanisms Protecting Chronic Pressure Overload by Apoptosis Inhibition. <i>FASEB Journal</i> , <b>2012</b> , 26, 1065.3	0.9	
71	Caloric restriction reduces growth of mammary tumors and metastases. <i>Carcinogenesis</i> , <b>2011</b> , 32, 1381-74.6		74
70	Second window of preconditioning normalizes palmitate use for oxidation and improves function during low-flow ischaemia. <i>Cardiovascular Research</i> , <b>2011</b> , 92, 394-400	9.9	9
69	Echocardiography in Mice. <i>Current Protocols in Mouse Biology</i> , <b>2011</b> , 1, 71-83	1.1	149
68	Heart Rate and Electrocardiography Monitoring in Mice. <i>Current Protocols in Mouse Biology</i> , <b>2011</b> , 1, 123-139		63

67	Apoptosis in severe, compensated pressure overload predominates in nonmyocytes and is related to the hypertrophy but not function. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2011</b> , 300, H1062-8	5.2	15
66	Inhibition of Adenylyl Cyclase Type 5 Protects Against Obesity and Diabetes. <i>FASEB Journal</i> , <b>2011</b> , 25, 1095.17	0.9	
65	Dissociation between Changes in Metabolism and Blood Flow During Coronary Artery Stenosis. <i>FASEB Journal</i> , <b>2011</b> , 25, 1023.8	0.9	
64	Are contraction and adhesion activated simultaneously by Angiotensin II in vascular smooth muscle?. <i>FASEB Journal</i> , <b>2011</b> , 25, 1115.27	0.9	
63	Cardiac-specific Overexpression of the $\beta_1$ A-Adrenergic Receptor in Rats: a Model of Enhanced Cardiac Contractility and Autonomically Decreased Heart Rate. <i>FASEB Journal</i> , <b>2011</b> , 25, 1099.7	0.9	
62	Subendocardial Coronary Reserve as a Mechanism for the Preserved Cardiac Function in Rats vs Mice with Chronic Pressure Overload. <i>FASEB Journal</i> , <b>2011</b> , 25, 1025.8	0.9	
61	Improvement of cardiac function by a cardiac Myosin activator in conscious dogs with systolic heart failure. <i>Circulation: Heart Failure</i> , <b>2010</b> , 3, 522-7	7.6	117
60	Short communication: vascular smooth muscle cell stiffness as a mechanism for increased aortic stiffness with aging. <i>Circulation Research</i> , <b>2010</b> , 107, 615-9	15.7	219
59	Molecular mechanisms mediating preconditioning following chronic ischemia differ from those in classical second window. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H752-62	5.2	30
58	Effects of cardiac overexpression of type 6 adenylyl cyclase affects on the response to chronic pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2010</b> , 299, H707-12	5.2	24
57	Modulation of beta-adrenergic receptor signaling in heart failure and longevity: targeting adenylyl cyclase type 5. <i>Heart Failure Reviews</i> , <b>2010</b> , 15, 495-512	5	47
56	Gender Differences in Cardiac Responses to Catecholamine Stress in Caloric Restricted Mice. <i>FASEB Journal</i> , <b>2010</b> , 24, 588.3	0.9	
55	Down-regulation of MnSOD via Sirt1/FoxO3a complex increase oxidative stress with cardiac overexpression of Type 5 Adenylyl Cyclase. <i>FASEB Journal</i> , <b>2010</b> , 24, 1001.16	0.9	
54	Transgenic Rats with Cardiac Overexpression of alpha1A Adrenergic Receptors are protected from Myocardial Ischemia by a Nitric Oxide Mechanism. <i>FASEB Journal</i> , <b>2010</b> , 24, 1036.9	0.9	
53	A Unique Model of Compensated Severe Pressure Overload Cardiac Hypertrophy in Rats. <i>FASEB Journal</i> , <b>2010</b> , 24, 1029.14	0.9	
52	Apoptosis predominates in nonmyocytes in heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2009</b> , 297, H785-91	5.2	57
51	Adenylyl cyclase type 5 protein expression during cardiac development and stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2009</b> , 297, H1776-82	5.2	41
50	Adenylyl cyclase type 5 disruption prolongs longevity and protects the heart against stress. <i>Circulation Journal</i> , <b>2009</b> , 73, 195-200	2.9	19

49	Regional Difference of Increased Stiffness and Extra Cellular Matrix in Aging Monkey Aorta. <i>FASEB Journal</i> , <b>2009</b> , 23, 774.10	0.9	
48	The Level of Cardiac Specific Overexpression of Adenylyl Cyclase Type 2 Dictates the Response to Chronic Pressure Overload. <i>FASEB Journal</i> , <b>2009</b> , 23, 577.2	0.9	
47	Proteasome inhibition decreases cardiac remodeling after initiation of pressure overload. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2008</b> , 295, H1385-93	5.2	77
46	Repetitive ischemia by coronary stenosis induces a novel window of ischemic preconditioning. <i>Circulation</i> , <b>2008</b> , 118, 1961-9	16.7	44
45	Characterization of a Novel Cardiac Isoform of the Cell Cycle-related Kinase. <i>FASEB Journal</i> , <b>2008</b> , 22, 588.1	0.9	
44	Ischemic Myocardial Protection In Transgenic Mice With Cardiac $\beta$ A-Adrenergic Receptor Overexpression. <i>FASEB Journal</i> , <b>2008</b> , 22, 730.31	0.9	
43	Type 5 Adenylyl Cyclase Disruption Increases Longevity, Food Intake and Exercise Capacity. <i>FASEB Journal</i> , <b>2008</b> , 22, 831.2	0.9	
42	Disruption of type 5 adenylyl cyclase enhances desensitization of cyclic adenosine monophosphate signal and increases Akt signal with chronic catecholamine stress. <i>Circulation</i> , <b>2007</b> , 116, 1776-83	16.7	93
41	Mechanism of gender-specific differences in aortic stiffness with aging in nonhuman primates. <i>Circulation</i> , <b>2007</b> , 116, 669-76	16.7	79
40	Sex-specific regulation of gene expression in the aging monkey aorta. <i>Physiological Genomics</i> , <b>2007</b> , 29, 169-80	3.6	38
39	Increased apoptosis and myocyte enlargement with decreased cardiac mass; distinctive features of the aging male, but not female, monkey heart. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2007</b> , 43, 487-91	5.8	43
38	Type 5 adenylyl cyclase disruption increases longevity and protects against stress. <i>Cell</i> , <b>2007</b> , 130, 247-58	6.2	282
37	Inhibition of p38 alpha MAPK rescues cardiomyopathy induced by overexpressed beta 2-adrenergic receptor, but not beta 1-adrenergic receptor. <i>Journal of Clinical Investigation</i> , <b>2007</b> , 117, 1335-43	15.9	51
36	Species Differences in Collagen Expression in Aging Aorta. <i>FASEB Journal</i> , <b>2007</b> , 21, A904	0.9	
35	Obligatory role of cardiac nerves and alpha1-adrenergic receptors for the second window of ischemic preconditioning in conscious pigs. <i>Circulation Research</i> , <b>2006</b> , 99, 1270-6	15.7	36
34	H11 kinase prevents myocardial infarction by preemptive preconditioning of the heart. <i>Circulation Research</i> , <b>2006</b> , 98, 280-8	15.7	71
33	Activation of the cardiac proteasome during pressure overload promotes ventricular hypertrophy. <i>Circulation</i> , <b>2006</b> , 114, 1821-8	16.7	171
32	Increased expression of genes promoting cell survival after myocardial infarction in monkeys. <i>FASEB Journal</i> , <b>2006</b> , 20, A1190	0.9	

31	Differential Role of p38 $\beta$ in the Cardiomyopathy Induced by Either $\alpha$ - or $\beta$ -Adrenergic Receptor Overexpression. <i>FASEB Journal</i> , <b>2006</b> , 20, A311	0.9	
30	Autophagy in chronically ischemic myocardium. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2005</b> , 102, 13807-12	11.5	447
29	Insights into cardioprotection obtained from study of cellular Ca <sup>2+</sup> handling in myocardium of true hibernating mammals. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2004</b> , 286, H2219-28	5.2	48
28	Program of cell survival underlying human and experimental hibernating myocardium. <i>Circulation Research</i> , <b>2004</b> , 95, 433-40	15.7	106
27	Gender differences on the effects of aging on cardiac and peripheral adrenergic stimulation in old conscious monkeys. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2003</b> , 285, H527-34	5.2	25
26	Nitric oxide-dependent vasodilation maintains blood flow in true hibernating myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2003</b> , 35, 931-5	5.8	23
25	Disruption of type 5 adenylyl cyclase gene preserves cardiac function against pressure overload. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 9986-90	11.5	166
24	Aging increases aortic MMP-2 activity and angiotensin II in nonhuman primates. <i>Hypertension</i> , <b>2003</b> , 41, 1308-16	8.5	185
23	Type 5 adenylyl cyclase disruption alters not only sympathetic but also parasympathetic and calcium-mediated cardiac regulation. <i>Circulation Research</i> , <b>2003</b> , 93, 364-71	15.7	96
22	A Three-Decade Dialectic With Circulation Research. <i>Circulation Research</i> , <b>2003</b> , 92, 939-940	15.7	
21	Activation of Mst1 causes dilated cardiomyopathy by stimulating apoptosis without compensatory ventricular myocyte hypertrophy. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 111, 1463-74	15.9	202
20	Inhibition of endogenous thioredoxin in the heart increases oxidative stress and cardiac hypertrophy. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 112, 1395-406	15.9	105
19	Inhibition of endogenous thioredoxin in the heart increases oxidative stress and cardiac hypertrophy. <i>Journal of Clinical Investigation</i> , <b>2003</b> , 112, 1395-1406	15.9	200
18	Paradoxically enhanced endothelin-B receptor-mediated vasoconstriction in conscious old monkeys. <i>Circulation</i> , <b>2001</b> , 103, 2382-6	16.7	18
17	Cyclosporine reduces left ventricular mass with chronic aortic banding in mice, which could be due to apoptosis and fibrosis. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2001</b> , 33, 1505-14	5.8	30
16	Nitric oxide, an important regulator of perfusion-contraction matching in conscious pigs. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , <b>2000</b> , 279, H451-6	5.2	20
15	Apoptosis of cardiac myocytes in Gs $\alpha$ transgenic mice. <i>Circulation Research</i> , <b>1999</b> , 84, 34-42	15.7	145
14	Hibernating myocardium. <i>New England Journal of Medicine</i> , <b>1998</b> , 339, 173-81	59.2	365

13	Ineffective perfusion-contraction matching in conscious, chronically instrumented pigs with an extended period of coronary stenosis. <i>Circulation Research</i> , <b>1998</b> , 82, 1199-205	15.7	45
12	Cardiac Gsalpha overexpression enhances L-type calcium channels through an adenylyl cyclase independent pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>1998</b> , 95, 9669-74	11.5	55
11	Delayed enhanced nitric oxide-mediated coronary vasodilation following brief ischemia and prolonged reperfusion in conscious dogs. <i>Circulation Research</i> , <b>1997</b> , 81, 53-9	15.7	40
10	beta-Arrestin1 knockout mice appear normal but demonstrate altered cardiac responses to beta-adrenergic stimulation. <i>Circulation Research</i> , <b>1997</b> , 81, 1021-6	15.7	155
9	Adverse effects of chronic endogenous sympathetic drive induced by cardiac GS alpha overexpression. <i>Circulation Research</i> , <b>1996</b> , 78, 517-24	15.7	176
8	Mechanism of impaired myocardial function during progressive coronary stenosis in conscious pigs. Hibernation versus stunning?. <i>Circulation Research</i> , <b>1995</b> , 76, 479-88	15.7	153
7	Coronary vascular mechanisms involved in decompensation from hypertrophy to heart failure. <i>Journal of the American College of Cardiology</i> , <b>1993</b> , 22, 34A-40A	15.1	57
6	Cardiovascular control mechanisms in the conscious state. <i>New England Journal of Medicine</i> , <b>1975</b> , 293, 970-6	59.2	375
5	Sympathetic and parasympathetic components of reflex tachycardia induced by hypotension in conscious dogs with and without heart failure. <i>Cardiovascular Research</i> , <b>1974</b> , 8, 153-61	9.9	52
4	Effects of chronic heart failure on the inotropic response of the right ventricle of the conscious dog to a cardiac glycoside and to tachycardia. <i>Circulation</i> , <b>1974</b> , 50, 728-34	16.7	21
3	Effects of halothane on left ventricular function and distribution of regional blood flow in dogs and primates. <i>Circulation Research</i> , <b>1974</b> , 34, 155-67	15.7	105
2	Extent of regulation of the heart's contractile state in the conscious dog by alteration in the frequency of contraction. <i>Journal of Clinical Investigation</i> , <b>1973</b> , 52, 1187-94	15.9	107
1	Effects of cardiac depression and of anesthesia on the myocardial action of a cardiac glycoside. <i>Journal of Clinical Investigation</i> , <b>1971</b> , 50, 2585-95	15.9	63