

Rakesh C Kukreja

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.

85
papers

3,963
citations

32
h-index

62
g-index

89
ext. papers

4,290
ext. citations

5.2
avg. IF

5.2
L-index

#	Paper	IF	Citations
85	Phosphodiesterase-5 inhibition with sildenafil attenuates cardiomyocyte apoptosis and left ventricular dysfunction in a chronic model of doxorubicin cardiotoxicity. <i>Circulation</i> , 2005 , 111, 1601-10	16.7	280
84	Phosphodiesterase-5 inhibitor sildenafil preconditions adult cardiac myocytes against necrosis and apoptosis. Essential role of nitric oxide signaling. <i>Journal of Biological Chemistry</i> , 2005 , 280, 12944-55	5.4	272
83	Sildenafil (Viagra) induces powerful cardioprotective effect via opening of mitochondrial K(ATP) channels in rabbits. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 283, H1263-9	5.2	218
82	Sildenafil induces delayed preconditioning through inducible nitric oxide synthase-dependent pathway in mouse heart. <i>Circulation Research</i> , 2003 , 92, 595-7	15.7	205
81	Pharmacological preconditioning with sildenafil: Basic mechanisms and clinical implications. <i>Vascular Pharmacology</i> , 2005 , 42, 219-32	5.9	155
80	Protein kinase G-dependent cardioprotective mechanism of phosphodiesterase-5 inhibition involves phosphorylation of ERK and GSK3beta. <i>Journal of Biological Chemistry</i> , 2008 , 283, 29572-85	5.4	153
79	PDE5 inhibitors as therapeutics for heart disease, diabetes and cancer. <i>Pharmacology & Therapeutics</i> , 2015 , 147, 12-21	13.9	144
78	Inducible nitric oxide synthase mediates delayed myocardial protection induced by activation of adenosine A(1) receptors: evidence from gene-knockout mice. <i>Circulation</i> , 2000 , 102, 902-7	16.7	135
77	Cardioprotection with phosphodiesterase-5 inhibition—a novel preconditioning strategy. <i>Journal of Molecular and Cellular Cardiology</i> , 2004 , 36, 165-73	5.8	131
76	Sildenafil (Viagra) attenuates ischemic cardiomyopathy and improves left ventricular function in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1398-406	5.2	129
75	Phosphodiesterase-5 inhibitor, tadalafil, protects against myocardial ischemia/reperfusion through protein-kinase g-dependent generation of hydrogen sulfide. <i>Circulation</i> , 2009 , 120, S31-6	16.7	123
74	Essential role of inducible nitric oxide synthase in monophosphoryl lipid A-induced late cardioprotection: evidence from pharmacological inhibition and gene knockout mice. <i>Circulation</i> , 1999 , 99, 2157-63	16.7	121
73	Sildenafil increases chemotherapeutic efficacy of doxorubicin in prostate cancer and ameliorates cardiac dysfunction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18202-7	11.5	116
72	ERK phosphorylation mediates sildenafil-induced myocardial protection against ischemia-reperfusion injury in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H1236-43	5.2	110
71	Cyclic GMP-dependent protein kinase Ialpha attenuates necrosis and apoptosis following ischemia/reoxygenation in adult cardiomyocyte. <i>Journal of Biological Chemistry</i> , 2006 , 281, 38644-52	5.4	102
70	MicroRNAs: new players in cardiac injury and protection. <i>Molecular Pharmacology</i> , 2011 , 80, 558-64	4.3	101
69	Sildenafil (Viagra) attenuates ischemic cardiomyopathy and improves left ventricular function in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 294, H1398-H1406	5.2	90

68	Induction of microRNA-21 with exogenous hydrogen sulfide attenuates myocardial ischemic and inflammatory injury in mice. <i>Circulation: Cardiovascular Genetics</i> , 2014 , 7, 311-20		84
67	Vardenafil: a novel type 5 phosphodiesterase inhibitor reduces myocardial infarct size following ischemia/reperfusion injury via opening of mitochondrial K(ATP) channels in rabbits. <i>Journal of Molecular and Cellular Cardiology</i> , 2006 , 40, 405-11	5.8	83
66	Long-acting phosphodiesterase-5 inhibitor tadalafil attenuates doxorubicin-induced cardiomyopathy without interfering with chemotherapeutic effect. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2010 , 334, 1023-30	4.7	80
65	Dietary nitrate supplementation protects against Doxorubicin-induced cardiomyopathy by improving mitochondrial function. <i>Journal of the American College of Cardiology</i> , 2011 , 57, 2181-9	15.1	71
64	Anti-inflammatory and cardioprotective effects of tadalafil in diabetic mice. <i>PLoS ONE</i> , 2012 , 7, e45243	3.7	65
63	Phosphodiesterase-5 inhibitor tadalafil attenuates oxidative stress and protects against myocardial ischemia/reperfusion injury in type 2 diabetic mice. <i>Free Radical Biology and Medicine</i> , 2013 , 60, 80-8	7.8	62
62	Chronic inhibition of phosphodiesterase 5 with tadalafil attenuates mitochondrial dysfunction in type 2 diabetic hearts: potential role of NO/SIRT1/PGC-1 β signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1558-68	5.2	61
61	Cyclic guanosine monophosphate signaling and phosphodiesterase-5 inhibitors in cardioprotection. <i>Journal of the American College of Cardiology</i> , 2012 , 59, 1921-7	15.1	58
60	Phosphodiesterase 5 inhibitors enhance chemotherapy killing in gastrointestinal/genitourinary cancer cells. <i>Molecular Pharmacology</i> , 2014 , 85, 408-19	4.3	56
59	Ischemic preconditioning in isolated perfused mouse heart: Reduction in infarct size without improvement of post-ischemic ventricular function. <i>Molecular and Cellular Biochemistry</i> , 1998 , 186, 69-77	4.2	43
58	Sirtuin 1 (SIRT1) activation mediates sildenafil induced delayed cardioprotection against ischemia-reperfusion injury in mice. <i>PLoS ONE</i> , 2014 , 9, e86977	3.7	43
57	PDE5 inhibitors enhance the lethality of standard of care chemotherapy in pediatric CNS tumor cells. <i>Cancer Biology and Therapy</i> , 2014 , 15, 758-67	4.6	41
56	Emerging new uses of phosphodiesterase-5 inhibitors in cardiovascular diseases. <i>Experimental and Clinical Cardiology</i> , 2011 , 16, e30-5		39
55	Reperfusion Therapy with Rapamycin Attenuates Myocardial Infarction through Activation of AKT and ERK. <i>Oxidative Medicine and Cellular Longevity</i> , 2017 , 2017, 4619720	6.7	38
54	Myocardial preconditioning: Basic concepts and potential mechanisms. <i>Molecular and Cellular Biochemistry</i> , 1999 , 196, 3-12	4.2	37
53	Potential markers and metabolic processes involved in the mechanism of radiation-induced heart injury. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017 , 95, 1190-1203	2.4	31
52	Role of protein kinase C and 72 kDa heat shock protein in ischemic tolerance following heat stress in the rat heart. <i>Molecular and Cellular Biochemistry</i> , 1999 , 195, 123-31	4.2	30
51	Sildenafil (Viagra) sensitizes prostate cancer cells to doxorubicin-mediated apoptosis through CD95. <i>Oncotarget</i> , 2016 , 7, 4399-413	3.3	29

50	Reperfusion Injury: Basic Concepts and Protection Strategies. <i>Journal of Thrombosis and Thrombolysis</i> , 1997 , 4, 7-24	5.1	27
49	Mitogen-activated protein kinases mediate heat shock-induced delayed protection in mouse heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2001 , 281, H523-32	5.2	27
48	Monophosphoryl lipid A induces pharmacologic preconditioning in rabbit hearts without concomitant expression of 70-kDa heat shock protein. <i>Molecular and Cellular Biochemistry</i> , 1996 , 159, 73-80	4.2	25
47	Chronic treatment with long acting phosphodiesterase-5 inhibitor tadalafil alters proteomic changes associated with cytoskeletal rearrangement and redox regulation in Type 2 diabetic hearts. <i>Basic Research in Cardiology</i> , 2012 , 107, 249	11.8	24
46	Beetroot juice reduces infarct size and improves cardiac function following ischemia-reperfusion injury: Possible involvement of endogenous H ₂ S. <i>Experimental Biology and Medicine</i> , 2015 , 240, 669-81	3.7	21
45	Sildenafil and cardioprotection. <i>Current Pharmaceutical Design</i> , 2013 , 19, 6842-7	3.3	21
44	Emerging Role of mTOR Signaling-Related miRNAs in Cardiovascular Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2018 , 2018, 6141902	6.7	21
43	Myocardial connexin-43 and PKC signalling are involved in adaptation of the heart to irradiation-induced injury: Implication of miR-1 and miR-21. <i>General Physiology and Biophysics</i> , 2016 , 35, 215-22	2.1	20
42	Beet root juice protects against doxorubicin toxicity in cardiomyocytes while enhancing apoptosis in breast cancer cells. <i>Molecular and Cellular Biochemistry</i> , 2016 , 421, 89-101	4.2	19
41	Potential Therapeutic Strategies for Hypertension-Exacerbated Cardiotoxicity of Anticancer Drugs. <i>Oxidative Medicine and Cellular Longevity</i> , 2016 , 2016, 8139861	6.7	17
40	Sodium Nitrite Fails to Limit Myocardial Infarct Size: Results from the CAESAR Cardioprotection Consortium (LB645). <i>FASEB Journal</i> , 2014 , 28, LB645	0.9	16
39	Irradiation-Induced Cardiac Connexin-43 and miR-21 Responses Are Hampered by Treatment with Atorvastatin and Aspirin. <i>International Journal of Molecular Sciences</i> , 2018 , 19,	6.3	16
38	Sildenafil Potentiates the Therapeutic Efficacy of Docetaxel in Advanced Prostate Cancer by Stimulating NO-cGMP Signaling. <i>Clinical Cancer Research</i> , 2020 , 26, 5720-5734	12.9	15
37	Monophosphoryl lipid A induces pharmacologic preconditioning in rabbit hearts without concomitant expression of 70-kDa heat shock protein. <i>Molecular and Cellular Biochemistry</i> , 1996 , 156, 1-8	4.2	14
36	Singlet oxygen: a potential culprit in myocardial injury?. <i>Molecular and Cellular Biochemistry</i> , 1992 , 111, 17-24	4.2	14
35	Chronic treatment with novel nanoformulated micelles of rapamycin, Rapatar, protects diabetic heart against ischaemia/reperfusion injury. <i>British Journal of Pharmacology</i> , 2017 , 174, 4771-4784	8.6	13
34	Arterial Medial Calcification through Enhanced small Extracellular Vesicle Release in Smooth Muscle-Specific Asah1 Gene Knockout Mice. <i>Scientific Reports</i> , 2020 , 10, 1645	4.9	11
33	Role of KATP channel in heat shock and pharmacological preconditioning. <i>Annals of the New York Academy of Sciences</i> , 1999 , 874, 211-21	6.5	11

32	STAT3-miR-17/20 signalling axis plays a critical role in attenuating myocardial infarction following rapamycin treatment in diabetic mice. <i>Cardiovascular Research</i> , 2020 , 116, 2103-2115	9.9	10
31	Targeted Inhibition of Phosphoinositide 3-Kinase/Mammalian Target of Rapamycin Sensitizes Pancreatic Cancer Cells to Doxorubicin without Exacerbating Cardiac Toxicity. <i>Molecular Pharmacology</i> , 2015 , 88, 512-23	4.3	9
30	Cardiovascular risks and toxicity - The Achilles heel of androgen deprivation therapy in prostate cancer patients. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2020 , 1874, 188383	11.2	9
29	Myocardial stunning. <i>Journal of Cardiac Surgery</i> , 1994 , 9, 382-6	1.3	9
28	Randomized study of doxorubicin-based chemotherapy regimens, with and without sildenafil, with analysis of intermediate cardiac markers. <i>Cardio-Oncology</i> , 2018 , 4,	2.8	9
27	Long-acting PDE5 inhibitor tadalafil prevents early doxorubicin-induced left ventricle diastolic dysfunction in juvenile mice: potential role of cytoskeletal proteins. <i>Canadian Journal of Physiology and Pharmacology</i> , 2017 , 95, 295-304	2.4	7
26	Chronic inhibition of phosphodiesterase 5 with tadalafil affords cardioprotection in a mouse model of metabolic syndrome: role of nitric oxide. <i>Molecular and Cellular Biochemistry</i> , 2020 , 468, 47-58	4.2	7
25	Rationale for the early clinical application of markers of ischemia in patients with suspected acute coronary syndromes. <i>Cardiovascular Toxicology</i> , 2001 , 1, 125-33	3.4	6
24	PDE5 Inhibitor Tadalafil and Hydroxychloroquine Cotreatment Provides Synergistic Protection against Type 2 Diabetes and Myocardial Infarction in Mice. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2017 , 361, 29-38	4.7	5
23	Differential Regulation of mTOR Complexes with miR-302a Attenuates Myocardial Reperfusion Injury in Diabetes. <i>IScience</i> , 2020 , 23, 101863	6.1	4
22	A dual PI3 kinase/mTOR inhibitor BEZ235 reverses doxorubicin resistance in ABCB1 overexpressing ovarian and pancreatic cancer cell lines. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020 , 1864, 129456	4.5	2
21	Activated Oxygen Species in Heart Failure. <i>Heart Failure Reviews</i> , 1999 , 4, 1-12	5	2
20	Role of phosphodiesterase 1 in the pathophysiology of diseases and potential therapeutic opportunities. <i>Pharmacology & Therapeutics</i> , 2021 , 226, 107858	13.9	2
19	Corticosteroids and aldose reductase inhibitor Epalrestat modulates cardiac action potential via Kv β .1 (AKR6A8) subunit of voltage-gated potassium channel. <i>Molecular and Cellular Biochemistry</i> , 2017 , 436, 71-78	4.2	1
18	PDE5 inhibitor sildenafil attenuates cardiac microRNA 214 upregulation and pro-apoptotic signaling after chronic alcohol ingestion in mice. <i>Molecular and Cellular Biochemistry</i> , 2020 , 471, 189-201	4.2	1
17	Nonurologic applications of phosphodiesterase type 5 inhibitors. <i>Current Sexual Health Reports</i> , 2007 , 4, 64-70	1.2	1
16	Embryonic Stem Cells Derived Exosomes Enhances Chemosensitivity of Doxorubicin in Breast Cancer Cells. <i>FASEB Journal</i> , 2019 , 33, 646.7	0.9	1
15	PDE1 Inhibition Attenuates Doxorubicin-Induced Toxicity in Primary Mouse Cardiomyocytes. <i>FASEB Journal</i> , 2019 , 33, 817.12	0.9	1

14	Phosphodiesterase-5 Inhibition with Tadalafil Attenuates Left Ventricular Dysfunction and Cardiomyocyte Apoptosis in Doxorubicin-induced Cardiotoxicity in Mice. <i>FASEB Journal</i> , 2010 , 24, 785.10 ^{0.9}	1
13	Regulatory role of mammalian target of rapamycin signaling in exosome secretion and osteogenic changes in smooth muscle cells lacking acid ceramidase gene. <i>FASEB Journal</i> , 2021 , 35, e21732	0.9 1
12	Postconditioning Effect of PDE5 inhibitor, Sildenafil in Normal and Diabetic Rabbits following Myocardial Ischemia/Reperfusion injury.. <i>FASEB Journal</i> , 2018 , 32, 580.16	0.9 0
11	Preclinical model of type 1 diabetes and myocardial ischemia/reperfusion injury in conscious rabbits-demonstration of cardioprotection with rapamycin. <i>STAR Protocols</i> , 2021 , 2, 100772	1.4 0
10	Myocardial Protection by Monophosphoryl Lipid A: Potential Mechanisms. <i>Cardiovascular Drug Reviews</i> , 2006 , 17, 265-280	
9	The role of tyrosine phosphorylation in the mechanism of ischemic preconditioning. <i>Japanese Journal of Electrocardiology</i> , 2000 , 20, 89-96	0
8	Rapamycin Alters MicroRNA Signature Profile in Diabetic Rabbit following Myocardial Ischemia Reperfusion Injury: A Preclinical Approach for Cardioprotection.. <i>FASEB Journal</i> , 2018 , 32, 717.24	0.9
7	Contribution of Ceramide Signaling to Activation of the mTORC1 Pathway and Calcification Nidus Formation in Coronary Arterial Smooth Muscle Cells. <i>FASEB Journal</i> , 2019 , 33, 679.12	0.9
6	BEZ235, a selective PI3k/mTOR inhibitor, enhances the therapeutic efficacy of doxorubicin in pancreatic cancer (655.7). <i>FASEB Journal</i> , 2014 , 28, 655.7	0.9
5	Acute Alcohol Treatment and Cardiac Dysfunction in Obese Diabetic Mice: Role of PDE5 and MicroRNA-21. <i>FASEB Journal</i> , 2015 , 29, 1020.9	0.9
4	BAY 58-2667, a Novel NO-Independent Activator of Soluble Guanylate Cyclase, Protects against Ischemia/Reperfusion Injury: Potential Role of Hydrogen Sulfide Signaling. <i>FASEB Journal</i> , 2010 , 24, 787.4 ^{0.9}	
3	Rapamycin (Sirolimus)Induced protection against ischemia-reperfusion injury is mediated through AMPK, Akt and JAK/STAT pathways in mouse heart. <i>FASEB Journal</i> , 2010 , 24, 601.6	0.9
2	Mitigation of Heart Failure Progression with Sildenafil Involves Inhibition of RhoA/Rho-Kinase Pathway. <i>FASEB Journal</i> , 2010 , 24, 601.13	0.9
1	Adenoviral transfer of PKGII attenuates apoptosis and necrosis in adipose derived stem cells. <i>FASEB Journal</i> , 2010 , 24, lb34	0.9