

Rakesh C Kukreja

List of Publications by Year in descending order

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89
papers

4,682
citations

109264

35
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102432

66
g-index

89
all docs

89
docs citations

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times ranked

4517
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Phosphodiesterase-5 Inhibition With Sildenafil Attenuates Cardiomyocyte Apoptosis and Left Ventricular Dysfunction in a Chronic Model of Doxorubicin Cardiotoxicity. <i>Circulation</i> , 2005, 111, 1601-1610. | 1.6 | 310 |
| 2 | Phosphodiesterase-5 Inhibitor Sildenafil Preconditions Adult Cardiac Myocytes against Necrosis and Apoptosis. <i>Journal of Biological Chemistry</i> , 2005, 280, 12944-12955. | 1.6 | 304 |
| 3 | 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-H1269. | 1.5 | 260 |
| 4 | Sildenafil Induces Delayed Preconditioning Through Inducible Nitric Oxide Synthase-Dependent Pathway in Mouse Heart. <i>Circulation Research</i> , 2003, 92, 595-597. | 2.0 | 225 |
| 5 | PDE5 inhibitors as therapeutics for heart disease, diabetes and cancer. , 2015, 147, 12-21. | | 187 |
| 6 | Pharmacological preconditioning with sildenafil: Basic mechanisms and clinical implications. <i>Vascular Pharmacology</i> , 2005, 42, 219-232. | 1.0 | 184 |
| 7 | Protein Kinase G-dependent Cardioprotective Mechanism of Phosphodiesterase-5 Inhibition Involves Phosphorylation of ERK and GSK3 β . <i>Journal of Biological Chemistry</i> , 2008, 283, 29572-29585. | 1.6 | 175 |
| 8 | Cardioprotection with phosphodiesterase-5 inhibition—a novel preconditioning strategy. <i>Journal of Molecular and Cellular Cardiology</i> , 2004, 36, 165-173. | 0.9 | 143 |
| 9 | Inducible Nitric Oxide Synthase Mediates Delayed Myocardial Protection Induced by Activation of Adenosine A ₁ Receptors. <i>Circulation</i> , 2000, 102, 902-907. | 1.6 | 141 |
| 10 | Sildenafil (Viagra) attenuates ischemic cardiomyopathy and improves left ventricular function in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2007, 294, H1398-H1406. | 1.5 | 138 |
| 11 | 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, 18202-18207. | 3.3 | 138 |
| 12 | 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. | 1.6 | 136 |
| 13 | Essential Role of Inducible Nitric Oxide Synthase in Monophosphoryl Lipid-Induced Late Cardioprotection. <i>Circulation</i> , 1999, 99, 2157-2163. | 1.6 | 134 |
| 14 | 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-H1243. | 1.5 | 121 |
| 15 | MicroRNAs: New Players in Cardiac Injury and Protection. <i>Molecular Pharmacology</i> , 2011, 80, 558-564. | 1.0 | 119 |
| 16 | Cyclic GMP-dependent Protein Kinase β Attenuates Necrosis and Apoptosis Following Ischemia/Reoxygenation in Adult Cardiomyocyte. <i>Journal of Biological Chemistry</i> , 2006, 281, 38644-38652. | 1.6 | 112 |
| 17 | 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. | 1.5 | 102 |
| 18 | Induction of MicroRNA-21 With Exogenous Hydrogen Sulfide Attenuates Myocardial Ischemic and Inflammatory Injury in Mice. <i>Circulation: Cardiovascular Genetics</i> , 2014, 7, 311-320. | 5.1 | 97 |

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|----|--|-----|-----------|
| 19 | Vardenafil: a novel type 5 phosphodiesterase inhibitor reduces myocardial infarct size following ischemia/reperfusion injury via opening of mitochondrial KATP channels in rabbits. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 40, 405-411. | 0.9 | 96 |
| 20 | 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, 1023-1030. | 1.3 | 93 |
| 21 | Dietary Nitrate Supplementation Protects Against Doxorubicin-Induced Cardiomyopathy by Improving Mitochondrial Function. <i>Journal of the American College of Cardiology</i> , 2011, 57, 2181-2189. | 1.2 | 82 |
| 22 | Cyclic Guanosine Monophosphate Signaling and Phosphodiesterase-5 Inhibitors in Cardioprotection. <i>Journal of the American College of Cardiology</i> , 2012, 59, 1921-1927. | 1.2 | 77 |
| 23 | Chronic inhibition of phosphodiesterase 5 with tadalafil attenuates mitochondrial dysfunction in type 2 diabetic hearts: potential role of NO/SIRT1/PGC-1 α signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014, 306, H1558-H1568. | 1.5 | 76 |
| 24 | Anti-Inflammatory and Cardioprotective Effects of Tadalafil in Diabetic Mice. <i>PLoS ONE</i> , 2012, 7, e45243. | 1.1 | 72 |
| 25 | 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, 80-88. | 1.3 | 72 |
| 26 | Phosphodiesterase 5 Inhibitors Enhance Chemotherapy Killing in Gastrointestinal/Genitourinary Cancer Cells. <i>Molecular Pharmacology</i> , 2014, 85, 408-419. | 1.0 | 69 |
| 27 | Sirtuin 1 (SIRT1) Activation Mediates Sildenafil Induced Delayed Cardioprotection against Ischemia-Reperfusion Injury in Mice. <i>PLoS ONE</i> , 2014, 9, e86977. | 1.1 | 51 |
| 28 | PDE5 inhibitors enhance the lethality of standard of care chemotherapy in pediatric CNS tumor cells. <i>Cancer Biology and Therapy</i> , 2014, 15, 758-767. | 1.5 | 48 |
| 29 | 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. | 0.7 | 46 |
| 30 | Title is missing!. <i>Molecular and Cellular Biochemistry</i> , 1998, 186, 69-77. | 1.4 | 43 |
| 31 | Reperfusion Therapy with Rapamycin Attenuates Myocardial Infarction through Activation of AKT and ERK. <i>Oxidative Medicine and Cellular Longevity</i> , 2017, 2017, 1-16. | 1.9 | 41 |
| 32 | Sildenafil (Viagra) sensitizes prostate cancer cells to doxorubicin-mediated apoptosis through CD95. <i>Oncotarget</i> , 2016, 7, 4399-4413. | 0.8 | 40 |
| 33 | Emerging new uses of phosphodiesterase-5 inhibitors in cardiovascular diseases. <i>Experimental and Clinical Cardiology</i> , 2011, 16, e30-5. | 1.3 | 40 |
| 34 | 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-H532. | 1.5 | 38 |
| 35 | Myocardial preconditioning: Basic concepts and potential mechanisms. <i>Molecular and Cellular Biochemistry</i> , 1999, 196, 3-12. | 1.4 | 37 |
| 36 | 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, 123-131. | 1.4 | 36 |

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|----|--|-----|-----------|
| 37 | Reperfusion Injury: Basic Concepts and Protection Strategies. <i>Journal of Thrombosis and Thrombolysis</i> , 1997, 4, 7-24. | 1.0 | 35 |
| 38 | Emerging Role of mTOR Signaling-Related miRNAs in Cardiovascular Diseases. <i>Oxidative Medicine and Cellular Longevity</i> , 2018, 2018, 1-23. | 1.9 | 32 |
| 39 | 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. | 2.5 | 29 |
| 40 | Potential Therapeutic Strategies for Hypertension-Exacerbated Cardiotoxicity of Anticancer Drugs. <i>Oxidative Medicine and Cellular Longevity</i> , 2016, 2016, 1-9. | 1.9 | 28 |
| 41 | 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. | 3.2 | 28 |
| 42 | Arterial Medial Calcification through Enhanced small Extracellular Vesicle Release in Smooth Muscle-Specific Asah1 Gene Knockout Mice. <i>Scientific Reports</i> , 2020, 10, 1645. | 1.6 | 28 |
| 43 | 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. | 1.4 | 26 |
| 44 | Beetroot juice reduces infarct size and improves cardiac function following ischemiaâ€“reperfusion injury: Possible involvement of endogenous H ₂ S. <i>Experimental Biology and Medicine</i> , 2015, 240, 669-681. | 1.1 | 24 |
| 45 | 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, 215-222. | 0.4 | 24 |
| 46 | 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. | 1.4 | 24 |
| 47 | 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, 1128. | 1.8 | 24 |
| 48 | Sildenafil and Cardioprotection. <i>Current Pharmaceutical Design</i> , 2013, 19, 6842-6847. | 0.9 | 24 |
| 49 | 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. | 3.3 | 23 |
| 50 | 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. | 1.4 | 22 |
| 51 | 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. | 1.8 | 21 |
| 52 | 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. | 2.7 | 18 |
| 53 | Role of phosphodiesterase 1 in the pathophysiology of diseases and potential therapeutic opportunities. , 2021, 226, 107858. | | 18 |
| 54 | Sodium Nitrite Fails to Limit Myocardial Infarct Size: Results from the CAESAR Cardioprotection Consortium (LB645). <i>FASEB Journal</i> , 2014, 28, LB645. | 0.2 | 18 |

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|----|---|-----|-----------|
| 55 | Singlet oxygen: a potential culprit in myocardial injury?. <i>Molecular and Cellular Biochemistry</i> , 1992, 111, 17-24. | 1.4 | 17 |
| 56 | 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, 512-523. | 1.0 | 12 |
| 57 | 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. | 1.3 | 12 |
| 58 | 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. | 1.4 | 12 |
| 59 | Role of KATP Channel in Heat Shock and Pharmacological Preconditioning. <i>Annals of the New York Academy of Sciences</i> , 1999, 874, 211-221. | 1.8 | 11 |
| 60 | 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. | 0.7 | 11 |
| 61 | Randomized study of doxorubicin-based chemotherapy regimens, with and without sildenafil, with analysis of intermediate cardiac markers. <i>Cardio-Oncology</i> , 2018, 4, . | 0.8 | 10 |
| 62 | Differential Regulation of mTOR Complexes with miR-302a Attenuates Myocardial Reperfusion Injury in Diabetes. <i>iScience</i> , 2020, 23, 101863. | 1.9 | 10 |
| 63 | Myocardial Stunning. <i>Journal of Cardiac Surgery</i> , 1994, 9, 382-386. | 0.3 | 9 |
| 64 | 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. | 0.2 | 8 |
| 65 | 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. | 0.5 | 7 |
| 66 | Rationale for the Early Clinical Application of Markers of Ischemia in Patients with Suspected Acute Coronary Syndromes. <i>Cardiovascular Toxicology</i> , 2001, 1, 125-134. | 1.1 | 6 |
| 67 | Phosphodiesterase-5 and Retargeting of Subcellular cGMP Signaling During Pathological Hypertrophy. <i>Circulation</i> , 2012, 126, 916-919. | 1.6 | 6 |
| 68 | 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, 129556. | 1.1 | 6 |
| 69 | Activated Oxygen Species in Heart Failure. <i>Heart Failure Reviews</i> , 1999, 4, 1-12. | 1.7 | 3 |
| 70 | Nonurologic applications of phosphodiesterase type 5 inhibitors. <i>Current Sexual Health Reports</i> , 2007, 4, 64-70. | 0.4 | 2 |
| 71 | Corticosteroids and aldose reductase inhibitor Epalrestat modulates cardiac action potential via Kv1.1 (AKR6A8) subunit of voltage-gated potassium channel. <i>Molecular and Cellular Biochemistry</i> , 2017, 436, 71-78. | 1.4 | 2 |
| 72 | Myriad roles of voltage-activated potassium channel subunit Kv1.1 in the heart. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017, 312, H546-H548. | 1.5 | 2 |

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|----|---|-----|-----------|
| 73 | 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. | 1.4 | 2 |
| 74 | Myocardial Protection by Monophosphoryl Lipid A: Potential Mechanisms. <i>Cardiovascular Drug Reviews</i> , 1999, 17, 265-280. | 4.4 | 1 |
| 75 | PDE1 Inhibition Attenuates Doxorubicin-Induced Toxicity in Primary Mouse Cardiomyocytes. <i>FASEB Journal</i> , 2019, 33, 817.12. | 0.2 | 1 |
| 76 | 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. | 0.2 | 1 |
| 77 | Postconditioning Effect of PDE5 inhibitor, Sildenafil in Normal and Diabetic Rabbits following Myocardial Ischemia/Reperfusion injury.. <i>FASEB Journal</i> , 2018, 32, 580.16. | 0.2 | 1 |
| 78 | Embryonic Stem Cells Derived Exosomes Enhances Chemosensitivity of Doxorubicin in Breast Cancer Cells. <i>FASEB Journal</i> , 2019, 33, 646.7. | 0.2 | 1 |
| 79 | The role of tyrosine phosphorylation in the mechanism of ischemic preconditioning. <i>Japanese Journal of Electrocardiology</i> , 2000, 20, 89-96. | 0.0 | 0 |
| 80 | 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. | 0.2 | 0 |
| 81 | 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. | 0.2 | 0 |
| 82 | Mitigation of Heart Failure Progression with Sildenafil Involves Inhibition of RhoA/Rho-Kinase Pathway. <i>FASEB Journal</i> , 2010, 24, 601.13. | 0.2 | 0 |
| 83 | Adenoviral transfer of PKG \pm ; attenuates apoptosis and necrosis in adipose derived stem cells. <i>FASEB Journal</i> , 2010, 24, 1b34. | 0.2 | 0 |
| 84 | 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. | 0.2 | 0 |
| 85 | mTOR inhibition protects diabetic heart against ischemia/reperfusion injury through STAT3 activation (1078.5). <i>FASEB Journal</i> , 2014, 28, . | 0.2 | 0 |
| 86 | Acute Alcohol Treatment and Cardiac Dysfunction in Obese Diabetic Mice: Role of PDE5 and MicroRNA-21. <i>FASEB Journal</i> , 2015, 29, 1020.9. | 0.2 | 0 |
| 87 | 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. | 0.2 | 0 |
| 88 | 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. | 0.2 | 0 |
| 89 | Anti-Tumor Effect of Embryonic Stem Cell Derived Exosomes in Triple Negative Breast Cancer: Potential Role of TCF7-Cadherin and VEGF. <i>FASEB Journal</i> , 2022, 36, . | 0.2 | 0 |