# David F Stowe

List of Publications by Year
in descending order

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| 172 | 5,638 | 76196 | 85405 |
|---|---|---|---|
| papers | citations | 40 | 71 |
| | | h-index | g-index |

| 175 | 175 | 175 | 4571 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Mitochondrial Reactive Oxygen Species Production in Excitable Cells: Modulators of Mitochondrial and Cell Function. Antioxidants and Redox Signaling, 2009, 11, 1373-1414. | 2.5 | 409 |
| 2 | Modulation of electron transport protects cardiac mitochondria and decreases myocardial injury during ischemia and reperfusion. American Journal of Physiology - Cell Physiology, 2007, 292, C137-C147. | 2.1 | 238 |
| 3 | Ischemic preconditioning alters real-time measure of O<sub>2</sub> radicals in intact hearts with ischemia and reperfusion. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H566-H574. | 1.5 | 226 |
| 4 | Cardioprotection with Volatile Anesthetics: Mechanisms and Clinical Implications. Anesthesia and Analgesia, 2005, 100, 1584-1593. | 1.1 | 195 |
| 5 | Reactive Oxygen Species as Mediators of Cardiac Injury and Protection: The Relevance to Anesthesia Practice. Anesthesia and Analgesia, 2005, 101, 1275-1287. | 1.1 | 170 |
| 6 | Potential Therapeutic Benefits of Strategies Directed to Mitochondria. Antioxidants and Redox Signaling, 2010, 13, 279-347. | 2.5 | 162 |
| 7 | Differences in Cardiotoxicity of Bupivacaine and Ropivacaine Are the Result of Physicochemical and Stereoselective Properties. Anesthesiology, 2002, 96, 1427-1434. | 1.3 | 134 |
| 8 | Mitochondrial Approaches to Protect Against Cardiac Ischemia and Reperfusion Injury. Frontiers in Physiology, 2011, 2, 13. | 1.3 | 132 |
| 9 | Cardiac mitochondrial preconditioning by Big Ca2+-sensitive K+ channel opening requires superoxide radical generation. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H434-H440. | 1.5 | 125 |
| 10 | Mitochondrial Ca2+-induced K+ influx increases respiration and enhances ROS production while maintaining membrane potential. American Journal of Physiology - Cell Physiology, 2007, 292, C148-C156. | 2.1 | 121 |
| 11 | Anesthetic preconditioning: triggering role of reactive oxygen and nitrogen species in isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H44-H52. | 1.5 | 115 |
| 12 | Reactive Oxygen Species Precede the Îµ Isoform of Protein Kinase C in the Anesthetic Preconditioning Signaling Cascade. Anesthesiology, 2003, 99, 421-428. | 1.3 | 109 |
| 13 | Sevoflurane Exposure Generates Superoxide but Leads to Decreased Superoxide During Ischemia and Reperfusion in Isolated Hearts. Anesthesia and Analgesia, 2003, 96, 949-955. | 1.1 | 108 |
| 14 | Reduced reactive O2 species formation and preserved mitochondrial NADH and [Ca2+] levels during short-term 17 Â°C ischemia in intact hearts. Cardiovascular Research, 2004, 61, 580-590. | 1.8 | 108 |
| 15 | Ranolazine reduces Ca2+ overload and oxidative stress and improves mitochondrial integrity to protect against ischemia reperfusion injury in isolated hearts. Pharmacological Research, 2011, 64, 381-392. | 3.1 | 98 |
| 16 | Reverse electron flow-induced ROS production is attenuated by activation of mitochondrial Ca2+-sensitive K+ channels. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H1400-H1407. | 1.5 | 91 |
| 17 | Ischemic and anesthetic preconditioning reduces cytosolic [Ca<sup>2+</sup>] and improves Ca<sup>2+</sup>responses in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1508-H1523. | 1.5 | 90 |
| 18 | Cardiac pharmacological preconditioning with volatile anesthetics: from bench to bedside?. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1603-H1607. | 1.5 | 89 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Anesthetic Preconditioning Attenuates Mitochondrial Ca2+ Overload During Ischemia in Guinea Pig Intact Hearts: Reversal by 5-Hydroxydecanoic Acid. Anesthesia and Analgesia, 2002, 95, 1540-1546. | 1.1 | 88 |
| 20 | Altered NADH and improved function by anesthetic and ischemic preconditioning in guinea pig intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 283, H53-H60. | 1.5 | 88 |
| 21 | Preconditioning with Sevoflurane Reduces Changes in Nicotinamide Adenine Dinucleotide during Ischemiaâ€“Reperfusion in Isolated Hearts. Anesthesiology, 2003, 98, 387-395. | 1.3 | 83 |
| 22 | Changes in [Na<sup>+</sup>]<sub>i</sub>, compartmental [Ca<sup>2+</sup>], and NADH with dysfunction after global ischemia in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 280, H280-H293. | 1.5 | 82 |
| 23 | Anesthetic Preconditioning Improves Adenosine Triphosphate Synthesis and Reduces Reactive Oxygen Species Formation in Mitochondria after Ischemia by a Redox Dependent Mechanism. Anesthesiology, 2003, 98, 1155-1163. | 1.3 | 77 |
| 24 | Blocking Na<sup>+</sup>/H<sup>+</sup>exchange reduces [Na<sup>+</sup>]<sub>i</sub>and [Ca<sup>2+</sup>]<sub>i</sub>load after ischemia and improves function in intact hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H2398-H2409. | 1.5 | 75 |
| 25 | Hypothermia augments reactive oxygen species detected in the guinea pig isolated perfused heart. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 286, H1289-H1299. | 1.5 | 74 |
| 26 | Cardiac Preconditioning by Volatile Anesthetic Agents: A Defining Role for Altered Mitochondrial Bioenergetics. Antioxidants and Redox Signaling, 2004, 6, 439-448. | 2.5 | 73 |
| 27 | Sevoflurane before or after Ischemia Improves Contractile and Metabolic Function while Reducing Myoplasmic Ca2+Loading in Intact Hearts. Anesthesiology, 2002, 96, 125-133. | 1.3 | 71 |
| 28 | Damage to mitochondrial complex I during cardiac ischemia reperfusion injury is reduced indirectly by anti-anginal drug ranolazine. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 419-429. | 0.5 | 71 |
| 29 | Anesthetic Preconditioning: The Role of Free Radicals in Sevoflurane-Induced Attenuation of Mitochondrial Electron Transport in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2005, 100, 46-53. | 1.1 | 67 |
| 30 | Protection against cardiac injury by small Ca2+-sensitive K+ channels identified in guinea pig cardiac inner mitochondrial membrane. Biochimica Et Biophysica Acta - Biomembranes, 2013, 1828, 427-442. | 1.4 | 66 |
| 31 | Ketamine Has Stereospecific Effects in the Isolated Perfused Guinea Pig Heart. Anesthesiology, 1995, 82, 1426-1437.. | 1.3 | 60 |
| 32 | Attenuation of hemodynamic responses to rapid sequence induction and intubation in healthy patients with a single bolus of esmolol. Journal of Clinical Anesthesia, 1990, 2, 243-252. | 0.7 | 57 |
| 33 | Attenuation of Mitochondrial Respiration by Sevoflurane in Isolated Cardiac Mitochondria Is Mediated in Part by Reactive Oxygen Species. Anesthesiology, 2004, 100, 498-505. | 1.3 | 57 |
| 34 | Mitochondrial matrix K<sup>+</sup>flux independent of large-conductance Ca<sup>2+</sup>-activated K<sup>+</sup>channel opening. American Journal of Physiology - Cell Physiology, 2010, 298, C530-C541. | 2.1 | 53 |
| 35 | Reduced Cytosolic Ca <sup>2+</sup> Loading and Improved Cardiac Function After Cardioplegic Cold Storage of Guinea Pig Isolated Hearts. Circulation, 2000, 102, 1172-1177. | 1.6 | 47 |
| 36 | Dual Exposure to Sevoflurane Improves Anesthetic Preconditioning in Intact Hearts. Anesthesiology, 2004, 100, 569-574. | 1.3 | 47 |

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| 37 | KATP Channel Openers Have Opposite Effects on Mitochondrial Respiration Under Different Energetic Conditions. Journal of Cardiovascular Pharmacology, 2008, 51, 483-491. | 0.8 | 47 |
| 38 | Modulation of myocardial function and [Ca2+] sensitivity by moderate hypothermia in guinea pig isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H2321-H2332. | 1.5 | 45 |
| 39 | Halothane Reduces Release of Adenosine, Inosine, and Lactate with Ischemia and Reperfusion in Isolated Hearts. Anesthesia and Analgesia, 1993, 76, 54???62. | 1.1 | 40 |
| 40 | Cyclosporin A Increases Mitochondrial Buffering of Calcium: An Additional Mechanism in Delaying Mitochondrial Permeability Transition Pore Opening. Cells, 2019, 8, 1052. | 1.8 | 38 |
| 41 | ROS scavenging before 27Â°C ischemia protects hearts and reduces mitochondrial ROS, Ca2+ overload, and changes in redox state. American Journal of Physiology - Cell Physiology, 2007, 292, C2021-C2031. | 2.1 | 37 |
| 42 | Dynamic buffering of mitochondrial Ca2+ during Ca2+ uptake and Na+-induced Ca2+ release. Journal of Bioenergetics and Biomembranes, 2013, 45, 189-202. | 1.0 | 37 |
| 43 | Halothane Reduces Dysrhythmias and Improves Contractile Function After Global Hypoperfusion in Isolated Hearts. Anesthesia and Analgesia, 1992, 74, 384???394. | 1.1 | 36 |
| 44 | Anesthetic Preconditioning. Anesthesiology, 2003, 99, 385-391. | 1.3 | 35 |
| 45 | Evaluation of the heart rate response to the Valsalva maneuver. American Heart Journal, 1978, 95, 707-715. | 1.2 | 34 |
| 46 | Characterization of human cardiac mitochondrial ATP-sensitive potassium channel and its regulation by phorbol ester in vitro. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1770-H1776. | 1.5 | 34 |
| 47 | Increasing Heart Size and Age Attenuate Anesthetic Preconditioning in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2005, 101, 1572-1576. | 1.1 | 31 |
| 48 | Warm ischemic preconditioning improves mitochondrial redox balance during and after mild hypothermic ischemia in guinea pig isolated hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2620-H2627. | 1.5 | 31 |
| 49 | Enhanced Na+/H+ Exchange During Ischemia and Reperfusion Impairs Mitochondrial Bioenergetics and Myocardial Function. Journal of Cardiovascular Pharmacology, 2008, 52, 236-244. | 0.8 | 31 |
| 50 | Mitochondrial Free [Ca2+] Increases during ATP/ADP Antiport and ADP Phosphorylation: Exploration of Mechanisms. Biophysical Journal, 2010, 99, 997-1006. | 0.2 | 30 |
| 51 | Tyrosine nitration of voltage-dependent anion channels in cardiac ischemia-reperfusion: reduction by peroxynitrite scavenging. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 2049-2059. | 0.5 | 30 |
| 52 | Isoflurane modulates cardiac mitochondrial bioenergetics by selectively attenuating respiratory complexes. Biochimica Et Biophysica Acta - Bioenergetics, 2014, 1837, 354-365. | 0.5 | 30 |
| 53 | Differential Effects of Arginine Vasopressin on Isolated Guinea Pig Heart Function During Perfusion at Constant Flow and Constant Pressure. Journal of Cardiovascular Pharmacology, 1997, 29, 1-7. | 0.8 | 30 |
| 54 | Isoflurane Activates Human Cardiac Mitochondrial Adenosine Triphosphate-Sensitive K+ Channels Reconstituted in Lipid Bilayers. Anesthesia and Analgesia, 2007, 105, 926-932. | 1.1 | 29 |

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| 55 | Modulation of Mitochondrial Bioenergetics in the Isolated Guinea Pig Beating Heart by Potassium and Lidocaine Cardioplegia: Implications for Cardioprotection. Journal of Cardiovascular Pharmacology, 2009, 54, 298-309. | 0.8 | 28 |
| 56 | Mitochondrial targets for volatile anesthetics against cardiac ischemia-reperfusion injury. Frontiers in Physiology, 2014, 5, 341. | 1.3 | 28 |
| 57 | Reversible Blockade of Complex I or Inhibition of PKCÎ² Reduces Activation and Mitochondria Translocation of p66Shc to Preserve Cardiac Function after Ischemia. PLoS ONE, 2014, 9, e113534. | 1.1 | 26 |
| 58 | Mg2+ differentially regulates two modes of mitochondrial Ca2+ uptake in isolated cardiac mitochondria: implications for mitochondrial Ca2+ sequestration. Journal of Bioenergetics and Biomembranes, 2016, 48, 175-188. | 1.0 | 26 |
| 59 | Identity and function of a cardiac mitochondrial small conductance Ca 2+ -activated K + channel splice variant. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 442-458. | 0.5 | 26 |
| 60 | Sevoflurane Preconditioning before Moderate Hypothermic Ischemia Protects against Cytosolic [Ca2+] Loading and Myocardial Damage in Part viaÂ Mitochondrial KATPChannels. Anesthesiology, 2002, 97, 912-920. | 1.3 | 25 |
| 61 | Mitochondrial handling of excess Ca2+ is substrate-dependent with implications for reactive oxygen speciesgeneration. Free Radical Biology and Medicine, 2013, 56, 193-203. | 1.3 | 25 |
| 62 | Differential effects of buffer pH on Ca2+-induced ROS emission with inhibited mitochondrial complexes I and III. Frontiers in Physiology, 2015, 6, 58. | 1.3 | 25 |
| 63 | Extra-matrix Mg2+ limits Ca2+ uptake and modulates Ca2+ uptakeâ€“independent respiration and redox state in cardiac isolated mitochondria. Journal of Bioenergetics and Biomembranes, 2013, 45, 203-218. | 1.0 | 24 |
| 64 | Peroxynitrite nitrates adenine nucleotide translocase and voltage-dependent anion channel 1 and alters their interactions and association with hexokinase II in mitochondria. Mitochondrion, 2019, 46, 380-392. | 1.6 | 24 |
| 65 | Effects of 2,3-butanedione monoxime in isolated hearts: Protection during reperfusion after global ischemia. Journal of Thoracic and Cardiovascular Surgery, 1993, 105, 532-540. | 0.4 | 23 |
| 66 | Anesthetic Preconditioning Enhances Ca2+Handling and Mechanical and Metabolic Function Elicited by Na+â€“Ca2+Exchange Inhibition in Isolated Hearts. Anesthesiology, 2006, 105, 541-549. | 1.3 | 23 |
| 67 | Reversal of Hypothermia-Induced Action Potential Lengthening by the KATP Channel Agonist Bimakalim in Isolated Guinea Pig Ventricular Muscle. General Pharmacology, 1998, 31, 125-131. | 0.7 | 22 |
| 68 | Ischemic Preconditioning: Triggering Role of Nitric Oxide-Derived Oxidants in Isolated Hearts. Journal of Cardiovascular Pharmacology, 2003, 42, 593-600. | 0.8 | 22 |
| 69 | Na+/H+ Exchange Inhibition with Cardioplegia Reduces Cytosolic [Ca2+] and Myocardial Damage after Cold Ischemia. Journal of Cardiovascular Pharmacology, 2003, 41, 686-698. | 0.8 | 22 |
| 70 | A Comparison of Three Phosphodiesterase Type III Inhibitors on Mechanical and Metabolic Function in Guinea Pig Isolated Hearts. Anesthesia and Analgesia, 2006, 102, 1646-1652. | 1.1 | 22 |
| 71 | Comparison of cumulative planimetry versus manual dissection to assess experimental infarct size in isolated hearts. Journal of Pharmacological and Toxicological Methods, 2009, 60, 275-280. | 0.3 | 22 |
| 72 | Computational analysis of Ca<sup>2+</sup> dynamics in isolated cardiac mitochondria predicts two distinct modes of Ca<sup>2+</sup> uptake. Journal of Physiology, 2014, 592, 1917-1930. | 1.3 | 22 |

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|---|---|---|---|
| 73 | The Comparative Effects of Equimolar Sevoflurane and Isoflurane in Isolated Hearts. Anesthesia and Analgesia, 1995, 81, 1026-1032. | 1.1 | 21 |
| 74 | Cardiac preconditioning with 4-h, 17Â°C ischemia reduces [Ca2+]i load and damage in part via KATP channel opening. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1961-H1969. | 1.5 | 21 |
| 75 | Partial attenuation of hemodynamic responses to rapid sequence induction and intubation with labetalol. Journal of Clinical Anesthesia, 1989, 1, 444-451. | 0.7 | 20 |
| 76 | Neural and endothelial control of the peripheral circulationâ€"Implications for anesthesia: Part II, endothelium-mediated effects in the normal and diseased circulation. Journal of Cardiothoracic and Vascular Anesthesia, 1996, 10, 159-171. | 0.6 | 18 |
| 77 | Inhibition of Na+/H+ isoform-1 exchange protects hearts perfused after 6-hour cardioplegic cold storage. Journal of Heart and Lung Transplantation, 2002, 21, 374-382. | 0.3 | 18 |
| 78 | Reperfusion with Adenosine and Nitroprusside Improves Preservation of Isolated Guinea Pig Hearts After 22 Hours of Cold Perfusion with 2,3 Butanedione Monoxime. Journal of Cardiovascular Pharmacology, 1993, 21, 578-586. | 0.8 | 17 |
| 79 | One-day Hypothermic Preservation of Isolated Hearts with Halothane Improves Cardiac Function Better than Low Calcium. Anesthesiology, 1995, 83, 1065-1077. | 1.3 | 17 |
| 80 | Neural and endothelial control of the peripheral circulationâ€"Implications for anesthesia: Part I, neural control of the peripheral vasculature. Journal of Cardiothoracic and Vascular Anesthesia, 1996, 10, 147-158. | 0.6 | 16 |
| 81 | Enhanced Contractile Responsiveness to Cytosolic Ca2+by Delta-2 Opioid Agonist Deltorphin in Intact Guinea Pig Hearts. Journal of Molecular and Cellular Cardiology, 2000, 32, 1647-1659. | 0.9 | 16 |
| 82 | How Inotropic Drugs Alter Dynamic and Static Indices of Cyclic Myoplasmic [Ca2+] to Contractility Relationships in Intact Hearts. Journal of Cardiovascular Pharmacology, 2003, 42, 539-553. | 0.8 | 16 |
| 83 | Improved Mitochondrial Bioenergetics by Anesthetic Preconditioning During and After 2 Hours of 27Â°C Ischemia in Isolated Hearts. Journal of Cardiovascular Pharmacology, 2005, 46, 280-287. | 0.8 | 16 |
| 84 | Ten-hour preservation of guinea pig isolated hearts perfused at low flow with air-saturated Lifor solution at 26Â°C: comparison to ViaSpan solution. American Journal of Physiology - Heart and Circulatory Physiology, 2007, 293, H895-H901. | 1.5 | 16 |
| 85 | Enhanced charge-independent mitochondrial free Ca2+ and attenuated ADP-induced NADH oxidation by isoflurane: Implications for cardioprotection. Biochimica Et Biophysica Acta - Bioenergetics, 2012, 1817, 453-465. | 0.5 | 16 |
| 86 | Single-lung ventilation and oxidative stress. Current Opinion in Anaesthesiology, 2017, 30, 42-49. | 0.9 | 16 |
| 87 | Potassium Channel Openers Attenuate Atrioventricular Block by Bupivacaine in Isolated Hearts. Anesthesia and Analgesia, 1993, 76, 1259-1265. | 1.1 | 15 |
| 88 | Low-flow Perfusion of Guinea Pig Isolated Hearts With 26Â°C Air-saturated Lifor Solution for 20 Hours Preserves Function and Metabolism. Journal of Heart and Lung Transplantation, 2008, 27, 1008-1015. | 0.3 | 15 |
| 89 | Differential Increase of Mitochondrial Matrix Volume by Sevoflurane in Isolated Cardiac Mitochondria. Anesthesia and Analgesia, 2008, 106, 1049-1055. | 1.1 | 15 |
| 90 | Endogenous and Agonist-induced Opening of Mitochondrial Big Versus Small Ca2+-sensitive K+ Channels on Cardiac Cell and Mitochondrial Protection. Journal of Cardiovascular Pharmacology, 2017, 70, 314-328. | 0.8 | 15 |

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| 91 | Cross-bridge kinetics modeled from myoplasmic [Ca2+] and LV pressure at 17Â°C and after 37Â°C and 17Â°C ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1217-H1229. | 1.5 | 14 |
| 92 | Reduced mitochondrial Ca<sup>2+</sup> loading and improved functional recovery after ischemia-reperfusion injury in old vs. young guinea pig hearts. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H855-H863. | 1.5 | 14 |
| 93 | Slow Ca2+ Efflux by Ca2+/H+ Exchange in Cardiac Mitochondria Is Modulated by Ca2+ Re-uptake via MCU, Extra-Mitochondrial pH, and H+ Pumping by FOF1-ATPase. Frontiers in Physiology, 2018, 9, 1914. | 1.3 | 14 |
| 94 | Prior Preconditioning by Ischemia or Sevoflurane Improves Cardiac Work per Oxygen Use in Isolated Guinea Pig Hearts After Global Ischemia. Advances in Experimental Medicine and Biology, 1998, 454, 533-542. | 0.8 | 14 |
| 95 | Cardiotonic drugs differentially alter cytosolic [Ca2+] to left ventricular relationships before and after ischemia in isolated guinea pig hearts. Cardiovascular Research, 2003, 59, 912-925. | 1.8 | 13 |
| 96 | Total Matrix Ca2+ Modulates Ca2+ Efflux via the Ca2+/H+ Exchanger in Cardiac Mitochondria. Frontiers in Physiology, 2020, 11, 510600. | 1.3 | 12 |
| 97 | Ischemia-reperfusion injury changes the dynamics of Ca2+-contraction coupling due to inotropic drugs in isolated hearts. Journal of Applied Physiology, 2006, 100, 940-950. | 1.2 | 11 |
| 98 | Reversal of Endothelin-Induced Vasoconstriction by Endothelium-Dependent and -Independent Vasodilators in Isolated Hearts and Vascular Rings. Journal of Cardiovascular Pharmacology, 1997, 29, 747-754. | 0.8 | 11 |
| 99 | PPARÎ³-Independent Side Effects of Thiazolidinediones on Mitochondrial Redox State in Rat Isolated Hearts. Cells, 2020, 9, 252. | 1.8 | 10 |
| 100 | Effects of l -Arginine and N Ï‰ -Nitro- l -Arginine Methyl Ester on Cardiac Perfusion and Function After 1-Day Cold Preservation of Isolated Hearts. Circulation, 1997, 95, 1623-1634. | 1.6 | 9 |
| 101 | Adding ROS Quenchers to Cold K<sup>+</sup>Cardioplegia Reduces Superoxide Emission During 2-Hour Global Cold Cardiac Ischemia. Journal of Cardiovascular Pharmacology and Therapeutics, 2012, 17, 93-101. | 1.0 | 8 |
| 102 | Safety and Efficacy of Ranolazine for the Treatment of Chronic Angina Pectoris. Clinical Medicine Insights Therapeutics, 2013, 5, CMT.S7824. | 0.4 | 8 |
| 103 | Coronary Flow Response to Vasodilators in Isolated Hearts Cold Perfused for One Day with Butanedione Monoxime. Endothelium: Journal of Endothelial Cell Research, 1994, 2, 87-98. | 1.7 | 7 |
| 104 | Direct Effects of Halothane and Isoflurane in Infant Rabbit Hearts with Right Ventricular Hypertrophy Secondary to Chronic Hypoxemia. Anesthesia and Analgesia, 1995, 80, 1122-1128. | 1.1 | 7 |
| 105 | Modulation of peroxynitrite produced via mitochondrial nitric oxide synthesis during Ca2+ and succinate-induced oxidative stress in cardiac isolated mitochondria. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148290. | 0.5 | 7 |
| 106 | Reactive Oxygen Species and Cardiac Preconditioning: Many Questions Remain. Cardiovascular Drugs and Therapy, 2004, 18, 87-90. | 1.3 | 6 |
| 107 | Genetically determined mitochondrial preservation and cardioprotection against myocardial ischemia-reperfusion injury in a consomic rat model. Physiological Genomics, 2014, 46, 169-176. | 1.0 | 6 |
| 108 | Negative inotropic drugs alter indexes of cytosolic [Ca2+]-left ventricular pressure relationships after ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2004, 287, H667-H680. | 1.5 | 5 |

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|---|---|---|---|
| 109 | Excitation--Contraction Uncoupling and Vasodilators for Long-Term Cold Preservation of Isolated Hearts. Advances in Pharmacology, 1994, 31, 39-61. | 1.2 | 4 |
| 110 | Effect of low [CaCl2] and high [MgCl2] cardioplegia and moderate hypothermic ischemia on myoplasmic [Ca2+] and cardiac function in intact hearts. European Journal of Cardio-thoracic Surgery, 2003, 24, 974-985. | 0.6 | 4 |
| 111 | Stretch-induced increase in cardiac contractility is independent of myocyte Ca<sup>2+</sup>while block of stretch channels by streptomycin improves contractility after ischemic stunning. Physiological Reports, 2015, 3, e12486. | 0.7 | 4 |
| 112 | Effects of Subnormothermic Regulated Hepatic Reperfusion on Mitochondrial and Transcriptomic Profiles in a Porcine Model. Annals of Surgery, 2023, 277, e366-e375. | 2.1 | 4 |
| 113 | Cardiac cell action potential duration is dependent upon induced changes in free Ca2+ activity during pH changes in vitro. Journal of Electrocardiology, 1986, 19, 143-154. | 0.4 | 3 |
| 114 | Improvement in functional recovery of the isolated guinea pig heart after hyperkalemic reperfusion with adenosine. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 74-84. | 0.4 | 3 |
| 115 | Understanding the temporal relationship of ATP loss, calcium loading, and rigor contracture during anoxia, and hypercontracture after anoxia in cardiac myocytes. Cardiovascular Research, 1999, 43, 285-287. | 1.8 | 3 |
| 116 | Ischemia reperfusion dysfunction changes model-estimated kinetics of myofilament interaction due to inotropic drugs in isolated hearts. BioMedical Engineering OnLine, 2006, 5, 16. | 1.3 | 3 |
| 117 | Knockout of VDAC1 in H9c2 Cells Promotes Oxidative Stress-Induced Cell Apoptosis through Decreased Mitochondrial Hexokinase II Binding and Enhanced Glycolytic Stress. Cellular Physiology and Biochemistry, 2020, 54, 853-874. | 1.1 | 3 |
| 118 | Human heart conjugate cooling simulation: Unsteady thermoâ€fluidâ€stress analysis. International Journal for Numerical Methods in Biomedical Engineering, 2014, 30, 1372-1386. | 1.0 | 2 |
| 119 | Reactive Oxygen Species (ROS) and Cardiac Ischemia and Reperfusion Injury. , 2014, , 889-949. | | 2 |
| 120 | Amobarbital, high K + and lidocaine protect hearts against ischemia reperfusion injury by differential changes in mitochondrial bioenergetics. FASEB Journal, 2006, 20, A319. | 0.2 | 2 |
| 121 | Cardiac mitochondrial Ca <sup>2+</sup> â€dependent big K <sup>+</sup> channels are open during early reperfusion. FASEB Journal, 2007, 21, A1224. | 0.2 | 2 |
| 122 | Quantitative Analysis of Mitochondrial Membrane Potential Measurements with JCâ€1. FASEB Journal, 2007, 21, A1351. | 0.2 | 2 |
| 123 | ADP/ATP Antiport and ADP Phosphorylation Increase Mitochondrial Free Ca2+. Biophysical Journal, 2009, 96, 244a. | 0.2 | 1 |
| 124 | Ranolazine Preserves the Integrity of Mitochondrial Supercomplexes. Biophysical Journal, 2010, 98, 56a. | 0.2 | 1 |
| 125 | Human heart preservation analyses using convective cooling. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 1426-1443. | 1.6 | 1 |
| 126 | Knockout of VDAC1 in H9c2 Cells Promotes tBHPâ€induced Cell Apoptosis Through Decreased Mitochondrial HK II Binding and Enhanced Glycolytic Stress. FASEB Journal, 2020, 34, 1-1. | 0.2 | 1 |

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| 127 | Phosphodiesterase Type 5 Inhibition Enhances Vasorelaxation Caused by Nitroprusside in Guinea Pig Intact Heart and Isolated Aorta. Journal of Cardiovascular Pharmacology, 2000, 36, 162-168. | 0.8 | 1 |
| 128 | Transfer entropy is a better indicator of changes in AV coupling than standard measures of AV conduction. FASEB Journal, 2006, 20, A321. | 0.2 | 1 |
| 129 | Activation of Mitochondrial Ca <sup>2+</sup> Sensitive Potassium Channels Enhances Mitochondrial Reactive Oxygen Species Production. FASEB Journal, 2006, 20, A315. | 0.2 | 1 |
| 130 | Modeling the roles of Ca uniporter, Na/Ca exchanger and Na/H exchanger in regulating Ca, Na and pH flux in cardiac mitochondria using in vitro spectrofluorometry. FASEB Journal, 2007, 21, A1352. | 0.2 | 1 |
| 131 | Ranolazine, a late sodium current inhibitor, reduces ischemiaâ€induced superoxide emission and improves functional recovery in guinea pig isolated hearts. FASEB Journal, 2009, 23, . | 0.2 | 1 |
| 132 | Characterizing the Cardioprotective Phenotype of Brown Norway Rats: Importance of Optimal Ischemia Duration. FASEB Journal, 2010, 24, . | 0.2 | 1 |
| 133 | Resveratrol or 32Â°C hypothermia applied during reperfusion after cardiac ischemia reduces mitochondrial translocation of p66shc. FASEB Journal, 2012, 26, 678.18. | 0.2 | 1 |
| 134 | Cyclosporineâ€A Enhances Mitochondrial Calcium Buffering to Delay mPTP Opening. FASEB Journal, 2019, 33, 660.9. | 0.2 | 1 |
| 135 | Hypothermia Prevents Cardiac Dysfunction during Acute Ischemia Reperfusion by Maintaining Mitochondrial Bioenergetics and by Promoting Hexokinase II Binding to Mitochondria. Oxidative Medicine and Cellular Longevity, 2022, 2022, 1-19. | 1.9 | 1 |
| 136 | Editorial: Genetic Modification of Cardiac Tissue. Frontiers in Cardiovascular Medicine, 2019, 6, 93. | 1.1 | 0 |
| 137 | Cardiovascular pharmacology. , 2006, , 499-509. | | 0 |
| 138 | Cardiac protection by volatile anesthetics with Na + /Ca 2+ exchanger inhibitors in isolated guinea pig hearts. FASEB Journal, 2006, 20, A319. | 0.2 | 0 |
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