

# Zeljko J Bosnjak

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,323  
citations

361413

20  
h-index

345221

36  
g-index

49  
all docs

49  
docs citations

49  
times ranked

1875  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | Biphasic effect of metformin on human cardiac energetics. <i>Translational Research</i> , 2021, 229, 5-23.  | 5.0 | 24        |
| 2  | Identification and analysis of circulating long non-coding RNAs with high significance in diabetic cardiomyopathy. <i>Scientific Reports</i> , 2021, 11, 2571.  | 3.3 | 10        |
| 3  | Modeling Precision Cardio-Oncology: Using Human-Induced Pluripotent Stem Cells for Risk Stratification and Prevention. <i>Current Oncology Reports</i> , 2021, 23, 77.  | 4.0 | 2         |
| 4  | Recent Insight on the Non-coding RNAs in Mesenchymal Stem Cell-Derived Exosomes: Regulatory and Therapeutic Role in Regenerative Medicine and Tissue Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2021, 8, 737512.      | 2.4 | 12        |
| 5  | Emerging Role of Long Noncoding RNAs in Perioperative Neurocognitive Disorders and Anesthetic-Induced Developmental Neurotoxicity. <i>Anesthesia and Analgesia</i> , 2021, 132, 1614-1625.  | 2.2 | 5         |
| 6  | Standards for preclinical research and publications in developmental anaesthetic neurotoxicity: expert opinion statement from the SmartTots preclinical working group. <i>British Journal of Anaesthesia</i> , 2020, 124, 585-593.    | 3.4 | 26        |
| 7  | Vascular endothelial growth factor regulation of endothelial nitric oxide synthase phosphorylation is involved in isoflurane cardiac preconditioning. <i>Cardiovascular Research</i> , 2019, 115, 168-178.                            | 3.8 | 22        |
| 8  | Genome-wide differential expression profiling of lncRNAs and mRNAs associated with early diabetic cardiomyopathy. <i>Scientific Reports</i> , 2019, 9, 15345.   | 3.3 | 29        |
| 9  | Fatty Acid-Treated Induced Pluripotent Stem Cell-Derived Human Cardiomyocytes Exhibit Adult Cardiomyocyte-Like Energy Metabolism Phenotypes. <i>Cells</i> , 2019, 8, 1095.  | 4.1 | 98        |
| 10 | Microarray analysis of long non-coding RNA and mRNA expression profiles in diabetic cardiomyopathy using human induced pluripotent stem cell-derived cardiomyocytes. <i>Diabetes and Vascular Disease Research</i> , 2019, 16, 57-68. | 2.0 | 12        |
| 11 | Stem Cell Therapies in Cardiovascular Disease. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2019, 33, 209-222.  | 1.3 | 54        |
| 12 | MicroRNA expression profiles in a human induced pluripotent stem cell-derived model of diabetic cardiomyopathy. <i>FASEB Journal</i> , 2019, 33, 713.2.   | 0.5 | 0         |
| 13 | Signaling network between the dysregulated expression of microRNAs and mRNAs in propofol-induced developmental neurotoxicity in mice. <i>Scientific Reports</i> , 2018, 8, 14172.   | 3.3 | 14        |
| 14 | Current status and strategies of long noncoding RNA research for diabetic cardiomyopathy. <i>BMC Cardiovascular Disorders</i> , 2018, 18, 197.  | 1.7 | 35        |
| 15 | Microarray Analysis of Long Non-coding RNA and mRNA Expression Profiles in Diabetic Cardiomyopathy Using Human iPSCs-Derived Cardiomyocytes.. <i>FASEB Journal</i> , 2018, 32, 580.15.  | 0.5 | 1         |
| 16 | Targeted Modification of Mitochondrial ROS Production Converts High Glucose-Induced Cytotoxicity to Cytoprotection: Effects on Anesthetic Preconditioning. <i>Journal of Cellular Physiology</i> , 2017, 232, 216-224.                | 4.1 | 26        |
| 17 | Transgenic overexpression of GTP cyclohydrolase 1 in cardiomyocytes ameliorates post-infarction cardiac remodeling. <i>Scientific Reports</i> , 2017, 7, 3093.  | 3.3 | 15        |
| 18 | The application of remote ischemic conditioning in cardiac surgery. <i>F1000Research</i> , 2017, 6, 928.  | 1.6 | 8         |

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|----|---|-----|-----------|
| 19 | Cardiomyocyte GTP Cyclohydrolase 1 Protects the Heart Against Diabetic Cardiomyopathy. <i>Scientific Reports</i> , 2016, 6, 27925.  | 3.3 | 23        |
| 20 | Biomarkers, Genetics, and Epigenetic Studies to Explore the Neurocognitive Effects of Anesthesia in Children. <i>Journal of Neurosurgical Anesthesiology</i> , 2016, 28, 384-388.   | 1.2 | 9         |
| 21 | Recent Insights Into Molecular Mechanisms of Propofol-Induced Developmental Neurotoxicity: Implications for the Protective Strategies. <i>Anesthesia and Analgesia</i> , 2016, 123, 1286-1296.                                | 2.2 | 85        |
| 22 | Chronic Co-Administration of Sepiapterin and L-Citrulline Ameliorates Diabetic Cardiomyopathy and Myocardial Ischemia/Reperfusion Injury in Obese Type 2 Diabetic Mice. <i>Circulation: Heart Failure</i> , 2016, 9, e002424. | 3.9 | 48        |
| 23 | High Glucose Attenuates Anesthetic Cardioprotection in Stem-Cell-Derived Cardiomyocytes: The Role of Reactive Oxygen Species and Mitochondrial Fission. <i>Anesthesia and Analgesia</i> , 2016, 122, 1269-1279.               | 2.2 | 19        |
| 24 | Comparison of Cardiomyocyte Differentiation Potential between Type 1 Diabetic Donor- and Nondiabetic Donor-Derived Induced Pluripotent Stem Cells. <i>Cell Transplantation</i> , 2015, 24, 2491-2504.                         | 2.5 | 21        |
| 25 | MicroRNA-21 Mediates Isoflurane-induced Cardioprotection against Ischemia-Reperfusion Injury via Akt/Nitric Oxide Synthase/Mitochondrial Permeability Transition Pore Pathway. <i>Anesthesiology</i> , 2015, 123, 786-798.    | 2.5 | 63        |
| 26 | Altered Mitochondrial Dynamics Contributes to Propofol-induced Cell Death in Human Stem Cell-derived Neurons. <i>Anesthesiology</i> , 2015, 123, 1067-1083.   | 2.5 | 54        |
| 27 | Up-regulation of MicroRNA-21 Mediates Isoflurane-induced Protection of Cardiomyocytes. <i>Anesthesiology</i> , 2015, 122, 795-805.  | 2.5 | 43        |
| 28 | MicroRNAs: New Players in Anesthetic-Induced Developmental Neurotoxicity. <i>Pharmaceutica Analytica Acta</i> , 2015, 06, 357.  | 0.2 | 15        |
| 29 | Isoflurane modulates cardiac mitochondrial bioenergetics by selectively attenuating respiratory complexes. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2014, 1837, 354-365.  | 1.0 | 30        |
| 30 | Cdk1, PKC $\zeta$ and calcineurin-mediated Drp1 pathway contributes to mitochondrial fission-induced cardiomyocyte death. <i>Biochemical and Biophysical Research Communications</i> , 2014, 453, 710-721.                    | 2.1 | 110       |
| 31 | Ketamine Enhances Human Neural Stem Cell Proliferation and Induces Neuronal Apoptosis via Reactive Oxygen Species-Mediated Mitochondrial Pathway. <i>Anesthesia and Analgesia</i> , 2013, 116, 869-880.                       | 2.2 | 160       |
| 32 | miR-21 Knockdown Attenuates the Cardioprotective Effects of Isoflurane. <i>FASEB Journal</i> , 2013, 27, lb679.   | 0.5 | 1         |
| 33 | Substrate-dependent Action of Isoflurane on Electron Transport Chain Complexes. <i>FASEB Journal</i> , 2013, 27, 1209.9.  | 0.5 | 0         |
| 34 | Emerging model in anesthetic developmental neurotoxicity: human stem cells. <i>International Journal of Clinical Anesthesiology</i> , 2013, 1, 1002.  | 0.0 | 5         |
| 35 | Ketamine Induces Toxicity in Human Neurons Differentiated from Embryonic Stem Cells via Mitochondrial Apoptosis Pathway. <i>Current Drug Safety</i> , 2012, 7, 106-119.   | 0.6 | 73        |
| 36 | Developmental neurotoxicity screening using human embryonic stem cells. <i>Experimental Neurology</i> , 2012, 237, 207-210.   | 4.1 | 23        |

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|----|---|-----|-----------|
| 37 | Marked Hyperglycemia Attenuates Anesthetic Preconditioning in Human-induced Pluripotent Stem Cell-derived Cardiomyocytes. <i>Anesthesiology</i> , 2012, 117, 735-744.   | 2.5 | 35        |
| 38 | Isoflurane Increases Mitochondrial Free Ca <sup>2+</sup> by Attenuating the Na <sup>+</sup> /Ca <sup>2+</sup> Exchanger Activity. <i>FASEB Journal</i> , 2012, 26, 888.4.                                     | 0.5 | 0         |
| 39 | The Role of MicroRNA in Anesthetic-induced Cardiac Preconditioning. <i>FASEB Journal</i> , 2012, 26, 1136.3.  | 0.5 | 0         |
| 40 | Isoflurane-induced cardioprotection: role of sarcolemmal KATP channels and mitochondria. <i>FASEB Journal</i> , 2011, 25, 1097.7.   | 0.5 | 0         |
| 41 | Isoflurane Preconditioning Elicits Competent Endogenous Mechanisms of Protection from Oxidative Stress in Cardiomyocytes Derived from Human Embryonic Stem Cells. <i>Anesthesiology</i> , 2010, 113, 906-916. | 2.5 | 41        |
| 42 | Age-related Attenuation of Isoflurane Preconditioning in Human Atrial Cardiomyocytes. <i>Anesthesiology</i> , 2008, 108, 612-620.   | 2.5 | 64        |
| 43 | Role of VDAC in vascular responses to isoflurane.. <i>FASEB Journal</i> , 2008, 22, 744.20.   | 0.5 | 0         |
| 44 | Isoflurane Preconditioning Delays Opening of Mitochondrial Permeability Transition Pore via Protein Kinase C Signaling Pathway. <i>FASEB Journal</i> , 2008, 22, 750.13.                                      | 0.5 | 0         |
| 45 | Comparison of Cardioprotective Potency of Preconditioning by General Anesthetics Desflurane and Sevoflurane. <i>FASEB Journal</i> , 2007, 21, A867.   | 0.5 | 1         |
| 46 | Nitric oxide is not involved in the attenuation of complex I-linked mitochondrial state 3 respiration by isoflurane. <i>FASEB Journal</i> , 2007, 21, A863.   | 0.5 | 0         |
| 47 | Cardiac protection by volatile anesthetics with Na <sup>+</sup> /Ca <sup>2+</sup> exchanger inhibitors in isolated guinea pig hearts. <i>FASEB Journal</i> , 2006, 20, A319.                                  | 0.5 | 0         |
| 48 | Isoflurane-induced preconditioning: electro-mechanical uncoupling and mitochondrial K <sup>+</sup> channel. <i>FASEB Journal</i> , 2006, 20, LB10.  | 0.5 | 0         |
| 49 | Coronary Flow Response to Vasodilators in Isolated Hearts Cold Perfused for One Day with Butanedione Monoxime. <i>Endothelium: Journal of Endothelial Cell Research</i> , 1994, 2, 87-98.                     | 1.7 | 7         |