Nilanjana Maulik

List of Publications by Year
in descending order

71 papers	3,206 citations	147566 31 h-index	149479 56 g-index
72 all docs	72 docs citations	72 times ranked	3457 citing authors

#	Article	IF	Citations
1	Redox signaling in vascular angiogenesis1,2 1Guest Editor: Toshikazu Yoshikawa 2This article is part of a series of reviews on â€œVascular Dysfunction and Free Radicals.â€•The full list of papers may be found on the homepage of the journal.. Free Radical Biology and Medicine, 2002, 33, 1047-1060.	1.3	257
2	Ischemic preconditioning triggers the activation of MAP kinases and MAPKAP kinase 2 in rat hearts. FEBS Letters, 1996, 396, 233-237.	1.3	227
3	An essential role of NFÎºB in tyrosine kinase signaling of p38 MAP kinase regulation of myocardial adaptation to ischemia. FEBS Letters, 1998, 429, 365-369.	1.3	221
4	JAK/STAT Signaling Is Associated With Cardiac Dysfunction During Ischemia and Reperfusion. Circulation, 2001, 104, 325-329.	1.6	205
5	Reactive oxygen species function as second messenger during ischemic preconditioning of heart. Molecular and Cellular Biochemistry, 1999, 196, 59-67.	1.4	137
6	Targeted Disruption of the Mouse <i>Sod I</i> Gene Makes the Hearts Vulnerable to Ischemic Reperfusion Injury. Circulation Research, 2000, 86, 264-269.	2.0	126
7	Differential regulation of Bcl-2, AP-1 and NF-ÎºB on cardiomyocyte apoptosis during myocardial ischemic stress adaptation. FEBS Letters, 1999, 443, 331-336.	1.3	103
8	Resveratrol: a promising agent in promoting cardioprotection against coronary heart diseaseThis article is one of a selection of papers from the NATO Advanced Research Workshop on Translational Knowledge for Heart Health (published in part 2 of a 2-part Special Issue).. Canadian Journal of Physiology and Pharmacology, 2009, 87, 275-286.	0.7	100
9	Thioredoxin-1 Gene Therapy Enhances Angiogenic Signaling and Reduces Ventricular Remodeling in Infarcted Myocardium of Diabetic Rats. Circulation, 2010, 121, 1244-1255.	1.6	100
10	Thioredoxin 1 enhances neovascularization and reduces ventricular remodeling during chronic myocardial infarction: A study using thioredoxin 1 transgenic mice. Journal of Molecular and Cellular Cardiology, 2011, 50, 239-247.	0.9	88
11	Oxygen Free Radical Signaling in Ischemic Preconditioninga. Annals of the New York Academy of Sciences, 1999, 874, 49-65.	1.8	83
12	Ischemic preconditioning attenuates apoptotic cell death associated with ischemia/reperfusion. Molecular and Cellular Biochemistry, 1998, 186, 139-145.	1.4	76
13	Disruption of Hypoxia-Inducible Transcription Factor-Prolyl Hydroxylase Domain-1 (PHD-1^{âˆ’/âˆ’}) Attenuates <i>Ex Vivo</i> Myocardial Ischemia/Reperfusion Injury Through Hypoxia-Inducible Factor-1Î± Transcription Factor and Its Target Genes in Mice. Antioxidants and Redox Signaling, 2011, 15, 1789-1797.	2.5	68
14	Regulation of cardiomyocyte apoptosis in ischemic reperfused mouse heart by glutathione peroxidase. Molecular and Cellular Biochemistry, 1999, 196, 13-21.	1.4	67
15	Early effects of hypoxia/reoxygenation on VEGF, ang-1, ang-2 and their receptors in the rat myocardium: implications for myocardial angiogenesis. Molecular and Cellular Biochemistry, 2000, 213, 145-153.	1.4	65
16	Drug-Induced Heat-Shock Preconditioning Improves Postischemic Ventricular Recovery After Cardiopulmonary Bypass. Circulation, 1995, 92, 381-388.	1.6	59
17	Generation of ceramide in murine macrophages infected with Leishmania donovani alters macrophage signaling events and aids intracellular parasitic survival. Molecular and Cellular Biochemistry, 2001, 223, 47-60.	1.4	58
18	Nitric oxide signaling in ischemic heart. Cardiovascular Research, 1995, 30, 593-601.	1.8	54

#	Article	IF	Citations
19	Mesenchymal Stem Cell: Present Challenges and Prospective Cellular Cardiomyoplasty Approaches for Myocardial Regeneration. Antioxidants and Redox Signaling, 2009, 11, 1841-1855.	2.5	52
20	Thioredoxin-1 (Trx1) engineered mesenchymal stem cell therapy increased pro-angiogenic factors, reduced fibrosis and improved heart function in the infarcted rat myocardium. International Journal of Cardiology, 2015, 201, 517-528.	0.8	51
21	Coadministration of Adenoviral Vascular Endothelial Growth Factor and Angiopoietin-1 Enhances Vascularization and Reduces Ventricular Remodeling in the Infarcted Myocardium of Type 1 Diabetic Rats. Diabetes, 2010, 59, 51-60.	0.3	50
22	Src tyrosine kinase is the trigger but not the mediator of ischemic preconditioning. American Journal of Physiology - Heart and Circulatory Physiology, 2001, 281, H1066-H1074.	1.5	47
23	Potentiation of angiogenic response by ischemic and hypoxic reconditioning of the heart. Journal of Cellular and Molecular Medicine, 2002, 6, 13-24.	1.6	43
24	Evaluation of Antioxidant Effectiveness of a Few Herbal Plants. Free Radical Research, 1997, 27, 221-228.	1.5	40
25	White Wine Induced Cardioprotection against Ischemia-Reperfusion Injury Is Mediated by Life Extending Akt/FOXO3a/NFÎºB Survival Pathway. Journal of Agricultural and Food Chemistry, 2008, 56, 6733-6739.	2.4	38
26	VEGFR1 (Flt-1+/âˆ’) gene knockout leads to the disruption of VEGF-mediated signaling through the nitric oxide/heme oxygenase pathway in ischemic preconditioned myocardium. Free Radical Biology and Medicine, 2007, 42, 1487-1495.	1.3	37
27	Thioredoxins in cardiovascular disease. Canadian Journal of Physiology and Pharmacology, 2015, 93, 903-911.	0.7	37
28	Dietary coenzyme Q₁₀ supplement renders swine hearts resistant to ischemia-reperfusion injury. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 278, H1084-H1090.	1.5	36
29	Molecular Mechanisms of Action and Therapeutic Uses of Pharmacological Inhibitors of HIFâ€"Prolyl 4-Hydroxylases for Treatment of Ischemic Diseases. Antioxidants and Redox Signaling, 2014, 20, 2631-2665.	2.5	35
30	Protective effects of Phyllanthus emblica against myocardial ischemia-reperfusion injury: the role of PI3-kinase/glycogen synthase kinase 3Î²/Î²-catenin pathway. Journal of Physiology and Biochemistry, 2015, 71, 623-633.	1.3	35
31	Adeno-sh-Î²-Catenin Abolishes Ischemic Preconditioningâ€"Mediated Cardioprotection by Downregulation of Its Target Genes VEGF, Bcl-2, and Survivin in Ischemic Rat Myocardium. Antioxidants and Redox Signaling, 2008, 10, 1475-1484.	2.5	33
32	Nitric oxide ? a retrograde messenger for carbon monoxide signaling in ischemic heart. Molecular and Cellular Biochemistry, 1996, 157, 75-86.	1.4	31
33	Redox Regulation of NF-<i>Îº</i>B and AP-1 in Ischemic Reperfused Heart. Antioxidants and Redox Signaling, 1999, 1, 317-324.	2.5	29
34	Thioredoxin-1 improves the immunometabolic phenotype of antitumor T cells. Journal of Biological Chemistry, 2019, 294, 9198-9212.	1.6	28
35	Thioredoxin-1 confines T cell alloresponse and pathogenicity in graft-versus-host disease. Journal of Clinical Investigation, 2019, 129, 2760-2774.	3.9	28
36	Deletion of prolyl hydroxylase domain proteins (PHD1, PHD3) stabilizes hypoxia inducible factor-1 alpha, promotes neovascularization, and improves perfusion in a murine model of hind-limb ischemia. Microvascular Research, 2015, 97, 181-188.	1.1	27

#	Article	IF	Citations
37	Evaluation of dermal tissue regeneration using resveratrol loaded fibrous matrix in a preclinical mouse model of full-thickness ischemic wound. International Journal of Pharmaceutics, 2019, 558, 177-186.	2.6	27
38	Simvastatin treatment inhibits hypoxia inducible factor 1-alpha-(HIF-1alpha)-prolyl-4-hydroxylase 3 (PHD-3) and increases angiogenesis after myocardial infarction in streptozotocin-induced diabetic rat. International Journal of Cardiology, 2013, 168, 2474-2480.	0.8	26
39	Graphene-based drug delivery systems in tissue engineering and nanomedicine. Canadian Journal of Physiology and Pharmacology, 2018, 96, 869-878.	0.7	26
40	Thioredoxin-1 attenuates sepsis-induced cardiomyopathy after cecal ligation and puncture in mice. Journal of Surgical Research, 2017, 220, 68-78.	0.8	25
41	Differential Regulation of Apoptosis by Ischemia-Reperfusion and Ischemic Adaptationa. Annals of the New York Academy of Sciences, 1999, 874, 401-411.	1.8	24
42	Thioredoxin-1 Gene Delivery Induces Heme Oxygenase-1 Mediated Myocardial Preservation After Chronic Infarction in Hypertensive Rats. American Journal of Hypertension, 2009, 22, 183-190.	1.0	23
43	Development of next generation cardiovascular therapeutics through bioâ€assisted nanotechnology. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2018, 106, 2072-2083.	1.6	21
44	Disruption of VEGF Mediated Flkâ€1 Signaling Leads to a Gradual Loss of Vessel Health and CardiacÂFunction During Myocardial Infarction: Potential Therapy With Pellinoâ€1. Journal of the American Heart Association, 2018, 7, e007601.	1.6	21
45	Improved 4- and 6-Hour Myocardial Preservation by Hypoxic Preconditioning. Circulation, 1995, 92, 417-422.	1.6	19
46	Targeted Gene Deletion of Prolyl Hydroxylase Domain Protein 3 Triggers Angiogenesis and Preserves Cardiac Function by Stabilizing Hypoxia Inducible Factor 1 Alpha Following Myocardial Infarction. Current Pharmaceutical Design, 2014, 20, 1305-1310.	0.9	19
47	Coordinated Role of Vasoactive Intestinal Peptide and Nitric Oxide in Cardioprotectiona. Annals of the New York Academy of Sciences, 1998, 865, 297-308.	1.8	18
48	Deletion of newly described pro-survival molecule Pellino-1 increases oxidative stress, downregulates cIAP2/NF-Î°B cell survival pathway, reduces angiogenic response, and thereby aggravates tissue function in mouse ischemic models. Basic Research in Cardiology, 2020, 115, 45.	2.5	18
49	Antioxidants in Longevity and Medicine. Oxidative Medicine and Cellular Longevity, 2013, 2013, 1-3.	1.9	17
50	Effects of Hypoxia/Reoxygenation on Angiogenic Factors and Their Tyrosine Kinase Receptors in the Rat Myocardium. Antioxidants and Redox Signaling, 2001, 3, 89-102.	2.5	16
51	Increased survivability of ischemic skin flap tissue in Flkâ€1^{+/â^’} mice by Pellinoâ€1 intervention. Microcirculation, 2017, 24, e12362.	1.0	15
52	Angiogenic signal during cardiac repair. Molecular and Cellular Biochemistry, 2004, 264, 13-23.	1.4	13
53	Engineered resveratrol-loaded fibrous scaffolds promotes functional cardiac repair and regeneration through Thioredoxin-1 mediated VEGF pathway. International Journal of Pharmaceutics, 2021, 597, 120236.	2.6	12
54	Editorial: Welcome message from the new Editor-in-Chief. Molecular Biology Reports, 2014, 41, 1-1.	1.0	9

#	Article	IF	Citations
55	Regulation of A-Kinase-Anchoring Protein 12 by Heat Shock Protein A12B to Prevent Ventricular Dysfunction Following Acute Myocardial Infarction in Diabetic Rats. Journal of Cardiovascular Translational Research, 2017, 10, 209-220.	1.1	9
56	Overexpression of Thioredoxin1 enhances functional recovery in a mouse model of hind limb ischemia. Journal of Surgical Research, 2017, 216, 158-168.	0.8	9
57	Thioredoxin-1 augments wound healing and promote angiogenesis in a murine ischemic full-thickness wound model. Surgery, 2018, 164, 1077-1086.	1.0	9
58	Molecular cloning, sequencing and expression analysis of a fatty acid transport gene in rat heart induced by ischemic preconditiong and oxidative stress. Molecular and Cellular Biochemistry, 1996, 160-161, 241-247.	1.4	8
59	Role of Akt Signaling in Mitochondrial Survival Pathway Triggered by Hypoxic Preconditioning. The Journal of Kansai Medical University, 2006, 58, 178-185.	0.3	8
60	NV1FGF, a pCOR plasmid-based angiogenic gene therapy for the treatment of intermittent claudication and critical limb ischemia. Current Opinion in Investigational Drugs, 2009, 10, 259-68.	2.3	7
61	[34] A survival model for the study of myocardial angiogenesis. Methods in Enzymology, 2002, 352, 391-407.	0.4	6
62	Antioxidants in Longevity and Medicine 2014. Oxidative Medicine and Cellular Longevity, 2015, 2015, 1-3.	1.9	6
63	Signal Transduction Pathway Leading to Hsp27 and Hsp70 Gene Expression during Myocardial Adaptation to Stressa. Annals of the New York Academy of Sciences, 1998, 851, 129-138.	1.8	5
64	Heat shock protein A12B gene therapy improves perfusion, promotes neovascularization, and decreases fibrosis in a murine model of hind limb ischemia. Surgery, 2021, 170, 969-977.	1.0	5
65	Gene therapy with Pellino-1 improves perfusion and decreases tissue loss in Flk-1 heterozygous mice but fails in MAPKAP Kinase-2 knockout murine hind limb ischemia model. Microvascular Research, 2022, 141, 104311.	1.1	5
66	Protective Effect of Cardiomyocyte-Specific Prolyl-4-Hydroxylase 2 Inhibition on Ischemic Injury in a Mouse MI Model. Journal of the American College of Surgeons, 2022, 235, 240-254.	0.2	5
67	Trimodal rescue of hind limb ischemia with growth factors, cells, and nanocarriers: fundamentals to clinical trials. Canadian Journal of Physiology and Pharmacology, 2017, 95, 1125-1140.	0.7	3
68	TOCOTRIENOLS IN CARDIOPROTECTION: ROLE OF DIFFERENT ISOMERS. FASEB Journal, 2007, 21, A1112.	0.2	1
69	Genomics Analysis to Demonstrate the Safety and Efficacy of Dietary Antioxidants. , 2010, , 95-125.		0
70	Special issue on the recent trends in therapeutic advancements of free radical science. Toxicology Mechanisms and Methods, 2012, 22, 321-322.	1.3	0
71	Reply to the letter â€œthioredoxin-1 (Trx1) engineered mesenchymal stem cell therapy is a promising feasible therapeutic approach for myocardial infarctionâ€. International Journal of Cardiology, 2016, 207, 277-278.	0.8	0