Kaikobad Irani

List of Publications by Year
in descending order

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98 papers	6,690 citations	53794 45 h-index	60623 81 g-index
100 all docs	100 docs citations	100 times ranked	8939 citing authors

#	Article	IF	Citations
1	The microRNAâ€204â€5p inhibits APJ signalling and confers resistance to cardiac hypertrophy and dysfunction. Clinical and Translational Medicine, 2022, 12, e693.	4.0	5
2	Î³ Peptide Nucleic Acid-Based miR-122 Inhibition Rescues Vascular Endothelial Dysfunction in Mice Fed a High-Fat Diet. Journal of Medicinal Chemistry, 2022, 65, 3332-3342.	6.4	8
3	OUP accepted manuscript. Europace, 2021, , .	1.7	1
4	CRIF1 Deficiency Increased Homocysteine Production by Disrupting Dihydrofolate Reductase Expression in Vascular Endothelial Cells. Antioxidants, 2021, 10, 1645.	5.1	3
5	Genetic deletion of miR-204 improves glycemic control despite obesity in db/db mice. Biochemical and Biophysical Research Communications, 2020, 532, 167-172.	2.1	7
6	Modulation of the cardiac sodium channel NaV1.5 peak and late currents by NAD+ precursors. Journal of Molecular and Cellular Cardiology, 2020, 141, 70-81.	1.9	11
7	Microbiota-governed microRNA-204 impairs endothelial function and blood pressure decline during inactivity in db/db mice. Scientific Reports, 2020, 10, 10065.	3.3	14
8	SUMO2 regulates vascular endothelial function and oxidative stress in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2019, 317, H1292-H1300.	3.2	15
9	MiR-204 regulates type 1 IP3R to control vascular smooth muscle cell contractility and blood pressure. Cell Calcium, 2019, 80, 18-24.	2.4	14
10	Isocitrate dehydrogenase 2 deficiency induces endothelial inflammation via p66sh-mediated mitochondrial oxidative stress. Biochemical and Biophysical Research Communications, 2018, 503, 1805-1811.	2.1	24
11	A common variant alters SCN5Aâ€“miR-24 interaction and associates with heart failure mortality. Journal of Clinical Investigation, 2018, 128, 1154-1163.	8.2	34
12	CR6 interacting factor 1 deficiency promotes endothelial inflammation by SIRT1 downregulation. PLoS ONE, 2018, 13, e0192693.	2.5	11
13	Sirtuin1-regulated lysine acetylation of p66Shc governs diabetes-induced vascular oxidative stress and endothelial dysfunction. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 1714-1719.	7.1	92
14	Mitochondrial redox plays a critical role in the paradoxical effects of NAPDH oxidase-derived ROS on coronary endothelium. Cardiovascular Research, 2017, 113, 234-246.	3.8	50
15	CR6-Interacting Factor 1 Deficiency Impairs Vascular Function by Inhibiting the Sirt1-Endothelial Nitric Oxide Synthase Pathway. Antioxidants and Redox Signaling, 2017, 27, 234-249.	5.4	23
16	Abnormal CD161 + immune cells and retinoic acid receptorâ€“related orphan receptor Î³tâ€“mediate enhanced IL-17F expression in the setting of genetic hypertension. Journal of Allergy and Clinical Immunology, 2017, 140, 809-821.e3.	2.9	14
17	Sirtuin1 protects endothelial Caveolin-1 expression and preserves endothelial function via suppressing miR-204 and endoplasmic reticulum stress. Scientific Reports, 2017, 7, 42265.	3.3	21
18	Sirtuin 1 regulates cardiac electrical activity by deacetylating the cardiac sodium channel. Nature Medicine, 2017, 23, 361-367.	30.7	62

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19	MicroRNA-204 promotes vascular endoplasmic reticulum stress and endothelial dysfunction by targeting Sirtuin1. Scientific Reports, 2017, 7, 9308.	3.3	39
20	Reversible lysine acetylation: Another layer of post-translational regulation of the cardiac sodium channel. Channels, 2017, 11, 360-361.	2.8	3
21	Endothelial CaMKII as a regulator of eNOS activity and NO-mediated vasoreactivity. PLoS ONE, 2017, 12, e0186311.	2.5	31
22	Essential Role of Smooth Muscle STIM1 in Hypertension and Cardiovascular Dysfunction. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 1900-1909.	2.4	48
23	Vascular microRNA-204 is remotely governed by the microbiome and impairs endothelium-dependent vasorelaxation by downregulating Sirtuin1. Nature Communications, 2016, 7, 12565.	12.8	93
24	P66Shc-Induced MicroRNA-34a Causes Diabetic Endothelial Dysfunction by Downregulating Sirtuin1. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 2394-2403.	2.4	67
25	IDH2 deficiency impairs mitochondrial function in endothelial cells and endothelium-dependent vasomotor function. Free Radical Biology and Medicine, 2016, 94, 36-46.	2.9	33
26	APE1/Ref-1 as a Serological Biomarker for the Detection of Bladder Cancer. Cancer Research and Treatment, 2015, 47, 823-833.	3.0	58
27	CRIF1 Deficiency Induces p66shc-Mediated Oxidative Stress and Endothelial Activation. PLoS ONE, 2014, 9, e98670.	2.5	18
28	Canonical Wnt Signaling Induces Vascular Endothelial Dysfunction via p66 ^{Shc} -Regulated Reactive Oxygen Species. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 2301-2309.	2.4	64
29	MicroRNA miR-27b Rescues Bone Marrowâ€“Derived Angiogenic Cell Function and Accelerates Wound Healing in Type 2 Diabetes Mellitus. Arteriosclerosis, Thrombosis, and Vascular Biology, 2014, 34, 99-109.	2.4	128
30	P66Shc mediates increased platelet activation and aggregation in hypercholesterolemia. Biochemical and Biophysical Research Communications, 2014, 449, 496-501.	2.1	17
31	Histone deacetylases inhibitor trichostatin A modulates the extracellular release of APE1/Ref-1. Biochemical and Biophysical Research Communications, 2013, 435, 403-407.	2.1	35
32	Docosahexaenoic acid improves vascular function via up-regulation of SIRT1 expression in endothelial cells. Biochemical and Biophysical Research Communications, 2013, 437, 114-119.	2.1	32
33	GAPDH is critical for superior efficacy of female bone marrow-derived mesenchymal stem cells on pulmonary hypertension. Cardiovascular Research, 2013, 100, 19-27.	3.8	18
34	Histone and DNA Methylationâ€“Mediated Epigenetic Downregulation of Endothelial Kruppel-Like Factor 2 by Low-Density Lipoprotein Cholesterol. Arteriosclerosis, Thrombosis, and Vascular Biology, 2013, 33, 1936-1942.	2.4	106
35	Redox Factor-1 Activates Endothelial SIRTUIN1 through Reduction of Conserved Cysteine Sulfhydryls in Its Deacetylase Domain. PLoS ONE, 2013, 8, e65415.	2.5	31
36	Epigenetic upregulation of p66shc mediates low-density lipoprotein cholesterol-induced endothelial cell dysfunction. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 303, H189-H196.	3.2	44

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37	Activation of Stat3 in endothelial cells following hypoxiaâ€“reoxygenation is mediated by Rac1 and protein kinase C. Biochimica Et Biophysica Acta - Molecular Cell Research, 2012, 1823, 997-1006.	4.1	18
38	Elevated Hemostasis Markers after Pneumonia Increases One-Year Risk of All-Cause and Cardiovascular Deaths. PLoS ONE, 2011, 6, e22847.	2.5	93
39	Phosphorylation of p66shc mediates 6-hydroxydopamine cytotoxicity. Free Radical Research, 2011, 45, 342-350.	3.3	7
40	Crippling of KrÃ¼ppel (-Like Factor 2) by Bad Flow Portends a miRky Day for Endothelial Function. Circulation, 2011, 124, 541-543.	1.6	7
41	Apurinic/apyrimidinic endonuclease 1 inhibits protein kinase C-mediated p66shc phosphorylation and vasoconstriction. Cardiovascular Research, 2011, 91, 502-509.	3.8	28
42	Homocysteine promotes human endothelial cell dysfunction via site-specific epigenetic regulation of p66shc. Cardiovascular Research, 2011, 92, 466-475.	3.8	90
43	p53 Impairs Endothelial Function by Transcriptionally Repressing Kruppel-Like Factor 2. Arteriosclerosis, Thrombosis, and Vascular Biology, 2011, 31, 133-141.	2.4	62
44	p66Shc has a pivotal function in impaired liver regeneration in aged mice by a redox-dependent mechanism. Laboratory Investigation, 2010, 90, 1718-1726.	3.7	32
45	A single-nucleotide variation in a p53-binding site affects nutrient-sensitive human SIRT1 expression. Human Molecular Genetics, 2010, 19, 4123-4133.	2.9	33
46	Histone Deacetylase 3 Antagonizes Aspirin-Stimulated Endothelial Nitric Oxide Production by Reversing Aspirin-Induced Lysine Acetylation of Endothelial Nitric Oxide Synthase. Circulation Research, 2010, 107, 877-887.	4.5	84
47	SIRT1 deacetylates APE1 and regulates cellular base excision repair. Nucleic Acids Research, 2010, 38, 832-845.	14.5	156
48	APE1/Ref-1: Versatility in Progress. Antioxidants and Redox Signaling, 2009, 11, 571-574.	5.4	19
49	Gene Transfer of Redox Factor-1 Inhibits Neointimal Formation. Circulation Research, 2009, 104, 219-227.	4.5	54
50	Transcriptional repression of Kruppel like factorâ€2 by the adaptor protein p66shc. FASEB Journal, 2009, 23, 4344-4352.	0.5	28
51	Preventing hypoxia/reoxygenation damage to hepatocytes by p66shc ablation: Up-regulation of anti-oxidant and anti-apoptotic proteins. Journal of Hepatology, 2008, 48, 422-432.	3.7	54
52	P53 Impairs Endothelium-Dependent Vasomotor Function Through Transcriptional Upregulation of P66shc. Circulation Research, 2008, 103, 1441-1450.	4.5	71
53	Inducible NO Synthaseâ€“Dependent S -Nitrosylation and Activation of Arginase1 Contribute to Age-Related Endothelial Dysfunction. Circulation Research, 2007, 101, 692-702.	4.5	177
54	Fractalkine Upregulates Intercellular Adhesion Molecule-1 in Endothelial Cells Through CX3CR1 and the Jakâ€“Stat5 Pathway. Circulation Research, 2007, 101, 1001-1008.	4.5	56

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55	G Proteinâ€“Coupled Receptor G2A. Circulation Research, 2007, 100, 450-451.	4.5	0
56	SIRT1 promotes endothelium-dependent vascular relaxation by activating endothelial nitric oxide synthase. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 14855-14860.	7.1	775
57	Reactive Oxygen Species. , 2007, , 375-383.		0
58	Apurinic/apyrimidinic endonuclease1/redox factor-1 inhibits monocyte adhesion in endothelial cells. Cardiovascular Research, 2006, 69, 520-526.	3.8	39
59	Sos-mediated activation of rac1 by p66shc. Journal of Cell Biology, 2006, 172, 817-822.	5.2	83
60	Rac1 Leads to Phosphorylation-dependent Increase in Stability of the p66shc Adaptor Protein: Role in Rac1-induced Oxidative Stress. Molecular Biology of the Cell, 2006, 17, 122-129.	2.1	90
61	Nitric oxide inhibits exocytosis of cytolytic granules from lymphokine-activated killer cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11689-11694.	7.1	19
62	Vascular endothelial growth factor regulation of Weibel-Paladeâ€“body exocytosis. Blood, 2005, 105, 207-214.	1.4	74
63	Signal Transducer and Activator of Transcription 3Î± and Specificity Protein 1 Interact to Upregulate Intercellular Adhesion Molecule-1 in Ischemicâ€“Reperfused Myocardium and Vascular Endothelium. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 1395-1400.	2.4	54
64	Roles of reactive oxygen species in angiopoietinâ€1/tieâ€2 receptor signaling. FASEB Journal, 2005, 19, 1728-1730.	0.5	115
65	Reduced Wall Compliance Suppresses Akt-Dependent Apoptosis Protection Stimulated by Pulse Perfusion. Circulation Research, 2005, 97, 587-595.	4.5	31
66	Hydrogen peroxide regulation of endothelial exocytosis by inhibition of N-ethylmaleimide sensitive factor. Journal of Cell Biology, 2005, 170, 73-79.	5.2	38
67	Alterations in the expression of the apurinic/apyrimidinic endonuclease-1/redox factor-1 (APE/Ref-1) in human melanoma and identification of the therapeutic potential of resveratrol as an APE/Ref-1 inhibitor. Molecular Cancer Therapeutics, 2005, 4, 1923-1935.	4.1	138
68	P66shc regulates endothelial NO production and endothelium-dependent vasorelaxation: implications for age-associated vascular dysfunction. Journal of Molecular and Cellular Cardiology, 2005, 39, 992-995.	1.9	53
69	Measurement of In Vivo Oxidative Stress Regulated by the Rac1 GTPase. Methods in Enzymology, 2004, 381, 184-191.	1.0	3
70	Apurinic/Apyrmidinic Endonuclease 1 Regulates Endothelial NO Production and Vascular Tone. Circulation Research, 2004, 95, 902-910.	4.5	87
71	Improved Hepatic Regeneration With Reduced Injury by Redox Factor-1 in a Rat Small-Sized Liver Transplant Model. American Journal of Transplantation, 2004, 4, 879-887.	4.7	25
72	Stat3 confers resistance against hypoxia/reoxygenation-induced oxidative injury in hepatocytes through upregulation of Mn-SOD. Journal of Hepatology, 2004, 41, 957-965.	3.7	70

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73	Tie-ing the Antiinflammatory Effect of Angiopoietin-1 to Inhibition of NF-Î¹B. Circulation Research, 2003, 92, 586-588.	4.5	47
74	Wall Stiffness Suppresses Akt/eNOS and Cytoprotection in Pulse-Perfused Endothelium. Hypertension, 2003, 41, 378-381.	2.7	120
75	Constitutive Activation ofrac1 Results in Mitochondrial Oxidative Stress and Induces Premature Endothelial Cell Senescence. Arteriosclerosis, Thrombosis, and Vascular Biology, 2003, 23, e1-6.	2.4	45
76	Stat3 protects against Fas-induced liver injury by redox-dependent and -independent mechanisms. Journal of Clinical Investigation, 2003, 112, 989-998.	8.2	201
77	Critical Role of NADPH Oxidase-derived Reactive Oxygen Species in Generating Ca2+ Oscillations in Human Aortic Endothelial Cells Stimulated by Histamine. Journal of Biological Chemistry, 2002, 277, 32546-32551.	3.4	68
78	Involvement of phospholipases D1 and D2 in sphingosine 1-phosphate-induced ERK (extracellular-signal-regulated kinase) activation and interleukin-8 secretion in human bronchial epithelial cells. Biochemical Journal, 2002, 367, 751-760.	3.7	62
79	Redox factorâ€1/APE suppresses oxidative stress by inhibiting activity of the rac1 GTPase. FASEB Journal, 2002, 16, 889-890.	0.5	87
80	Adhesion of flowing monocytes to hypoxia-reoxygenation-exposed endothelial cells: role of Rac1, ROS, and VCAM-1. American Journal of Physiology - Cell Physiology, 2002, 283, C93-C102.	4.6	36
81	Vascular endothelial growth factor induces manganeseâ€superoxide dismutase expression in endothelial cells by a Raclâ€regulated NADPH oxidaseâ€dependent mechanism. FASEB Journal, 2001, 15, 2548-2550.	0.5	159
82	Redox Regulation of Human Rac1 Stability by the Proteasome in Human Aortic Endothelial Cells. Journal of Biological Chemistry, 2001, 276, 45856-45861.	3.4	42
83	Angiotensin IIâ€“Stimulated Vascular Remodeling. Circulation Research, 2001, 88, 858-860.	4.5	13
84	Inhibition of the Rac1 GTPase protects against nonlethal ischemia/reperfusionâ€induced necrosis and apoptosisin vivo. FASEB Journal, 2000, 14, 418-429.	0.5	130
85	Rac1 Regulates Stress-induced, Redox-dependent Heat Shock Factor Activation. Journal of Biological Chemistry, 2000, 275, 35377-35383.	3.4	78
86	NADPH Oxidase Activation Increases the Sensitivity of Intracellular Ca2+ Stores to Inositol 1,4,5-Trisphosphate in Human Endothelial Cells. Journal of Biological Chemistry, 2000, 275, 15749-15757.	3.4	86
87	Oxidant Signaling in Vascular Cell Growth, Death, and Survival. Circulation Research, 2000, 87, 179-183.	4.5	707
88	Rac1 inhibits TNFâ€Î±â€induced endothelial cell apoptosis: dual regulation by reactive oxygen species. FASEB Journal, 2000, 14, 1705-1714.	0.5	225
89	The Actin Cytoskeleton Reorganization Induced by Rac1 Requires the Production of Superoxide. Antioxidants and Redox Signaling, 1999, 1, 29-43.	5.4	82
90	[Ca2+] Oscillation Frequency Regulates Agonist-stimulated NF-Î¹B Transcriptional Activity. Journal of Biological Chemistry, 1999, 274, 33995-33998.	3.4	114

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91	Reduced left ventricular dimension and normalized atrial natriuretic hormone level after repair of aortic coarctation in an adult. Clinical Cardiology, 1999, 22, 233-235.	1.8	5
92	A requirement for rac1 in the PDGF-stimulated migration of fibroblasts and vascular smooth cells. IUBMB Life, 1998, 45, 279-287.	3.4	24
93	Bcl-2 Regulates Nonapoptotic Signal Transduction: Inhibition of c-Jun N-terminal Kinase (JNK) Activation by IL-1Î² and Hydrogen Peroxide. Molecular Genetics and Metabolism, 1998, 64, 19-24.	1.1	23
94	Priming of Platelet Î± IIb Î² 3 by Oxidants Is Associated With Tyrosine Phosphorylation of Î² 3. Arteriosclerosis, Thrombosis, and Vascular Biology, 1998, 18, 1698-1706.	2.4	41
95	Expression of Id1 Results in Apoptosis of Cardiac Myocytes through a Redox-dependent Mechanism. Journal of Biological Chemistry, 1998, 273, 25922-25928.	3.4	54
96	Rac1 is required for cell proliferation and G2/M progression. Biochemical Journal, 1997, 326, 17-20.	3.7	72
97	Regulation of endothelial cell adhesion by profilin. Current Biology, 1997, 7, 24-30.	3.9	44
98	Superoxide-mediated Actin Response in Post-hypoxic Endothelial Cells. Journal of Biological Chemistry, 1996, 271, 26863-26867.	3.4	88