Suresh C Tyagi

List of Publications by Year
in descending order

323 papers	18,921 citations	23567 58 h-index	13771 129 g-index
326 all docs	326 docs citations	326 times ranked	30217 citing authors

#	Article	IF	Citations
1	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	9.1	4,701
2	Guidelines for the use and interpretation of assays for monitoring autophagy. Autophagy, 2012, 8, 445-544.	9.1	3,122
3	Collagen Network of the Myocardium: Function, Structural Remodeling and Regulatory Mechanisms. Journal of Molecular and Cellular Cardiology, 1994, 26, 279-292.	1.9	466
4	Functional and Structural Changes in the Kidney in the Early Stages of Obesity. Journal of the American Society of Nephrology: JASN, 2001, 12, 1211-1217.	6.1	451
5	Mechanisms of homocysteine-induced oxidative stress. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 289, H2649-H2656.	3.2	327
6	Curcumin-loaded embryonic stem cell exosomes restored neurovascular unit following ischemia-reperfusion injury. International Journal of Biochemistry and Cell Biology, 2016, 79, 360-369.	2.8	200
7	Mitochondrial division/mitophagy inhibitor (Mdivi) Ameliorates Pressure Overload Induced Heart Failure. PLoS ONE, 2012, 7, e32388.	2.5	177
8	Direct extraction and estimation of collagenase(s) activity by zymography in microquantities of rat myocardium and uterus. Clinical Biochemistry, 1993, 26, 191-198.	1.9	163
9	Induction of oxidative stress by homocyst(e)ine impairs endothelial function*. Journal of Cellular Biochemistry, 2001, 82, 491-500.	2.6	158
10	Cardiosome mediated regulation of <scp>MMP</scp>9 in diabetic heart: role of mir29b and mir455 in exercise. Journal of Cellular and Molecular Medicine, 2015, 19, 2153-2161.	3.6	154
11	Browning of White Fat: Novel Insight Into Factors, Mechanisms, and Therapeutics. Journal of Cellular Physiology, 2017, 232, 61-68.	4.1	152
12	Dietary copper supplementation reverses hypertrophic cardiomyopathy induced by chronic pressure overload in mice. Journal of Experimental Medicine, 2007, 204, 657-666.	8.5	150
13	H₂S Protects Against Methionineâ€"Induced Oxidative Stress in Brain Endothelial Cells. Antioxidants and Redox Signaling, 2009, 11, 25-33.	5.4	149
14	Homocysteine to Hydrogen Sulfide or Hypertension. Cell Biochemistry and Biophysics, 2010, 57, 49-58.	1.8	148
15	Mechanisms of Cardiovascular Remodeling in Hyperhomocysteinemia. Antioxidants and Redox Signaling, 2011, 15, 1927-1943.	5.4	148
16	Hydrogen sulfide ameliorates hyperhomocysteinemia-associated chronic renal failure. American Journal of Physiology - Renal Physiology, 2009, 297, F410-F419.	2.7	146
17	Myocardial matrix metalloproteinase(s): localization and activation. Molecular and Cellular Biochemistry, 1993, 126, 49-59.	3.1	143
18	Matrix metalloproteinase activity expression in infarcted, noninfarcted and dilated cardiomyopathic human hearts. Molecular and Cellular Biochemistry, 1996, 155, 13-21.	3.1	143

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19	Exosomes: cell-created drug delivery systems. Molecular and Cellular Biochemistry, 2019, 459, 1-6.	3.1	114
20	Temporal regulation of extracellular matrix components in transition from compensatory hypertrophy to decompensatory heart failure. Journal of Hypertension, 1999, 17, 261-270.	0.5	107
21	Homocysteine redox receptor and regulation of extracellular matrix components in vascular cells. American Journal of Physiology - Cell Physiology, 1998, 274, C396-C405.	4.6	106
22	The Role of Exercise and TFAM in Preventing Skeletal Muscle Atrophy. Journal of Cellular Physiology, 2017, 232, 2348-2358.	4.1	106
23	Matrix metalloproteinases in atherosclerosis: role of nitric oxide, hydrogen sulfide, homocysteine, and polymorphisms. Vascular Health and Risk Management, 2015, 11, 173.	2.3	105
24	Increased endogenous H₂S generation by CBS, CSE, and 3MST gene therapy improves ex vivo renovascular relaxation in hyperhomocysteinemia. American Journal of Physiology - Cell Physiology, 2012, 303, C41-C51.	4.6	102
25	Reversal of endocardial endothelial dysfunction by folic acid in homocysteinemic hypertensive rats. American Journal of Hypertension, 2002, 15, 157-163.	2.0	99
26	Homocysteine causes cerebrovascular leakage in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 290, H1206-H1213.	3.2	92
27	Hydrogen Sulfide Mitigates Cardiac Remodeling During Myocardial Infarction via Improvement of Angiogenesis. International Journal of Biological Sciences, 2012, 8, 430-441.	6.4	92
28	H₂S ameliorates oxidative and proteolytic stresses and protects the heart against adverse remodeling in chronic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 298, H451-H456.	3.2	91
29	Regulation of homocysteine-induced MMP-9 by ERK1/2 pathway. American Journal of Physiology - Cell Physiology, 2006, 290, C883-C891.	4.6	90
30	Mitochondrial matrix metalloproteinase activation decreases myocyte contractility in hyperhomocysteinemia. American Journal of Physiology - Heart and Circulatory Physiology, 2008, 295, H890-H897.	3.2	90
31	Fibrinogen induces endothelial cell permeability. Molecular and Cellular Biochemistry, 2007, 307, 13-22.	3.1	83
32	Mitochondrial mechanism of microvascular endothelial cells apoptosis in hyperhomocysteinemia. Journal of Cellular Biochemistry, 2006, 98, 1150-1162.	2.6	82
33	Proteinases and restenosis in the human coronary artery: extracellular matrix production exceeds the expression of proteolytic activity. Atherosclerosis, 1995, 116, 43-57.	0.8	81
34	Tissue inhibitor of metalloproteinase-4 instigates apoptosis in transformed cardiac fibroblasts. Journal of Cellular Biochemistry, 2001, 80, 512-521.	2.6	81
35	Stretch-induced membrane type matrix metalloproteinase and tissue plasminogen activator in cardiac fibroblast cells. Journal of Cellular Physiology, 1998, 176, 374-382.	4.1	80
36	Homocysteine-mediated activation and mitochondrial translocation of calpain regulates MMP-9 in MVEC. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H2825-H2835.	3.2	80

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37	Hydrogen Sulfide Regulates Homocysteine-Mediated Glomerulosclerosis. American Journal of Nephrology, 2010, 31, 442-455.	3.1	78
38	Moderate intensity exercise prevents diabetic cardiomyopathy associated contractile dysfunction through restoration of mitochondrial function and connexin 43 levels in db/db mice. Journal of Molecular and Cellular Cardiology, 2016, 92, 163-173.	1.9	78
39	The role of gut microbiota in bone homeostasis. Bone, 2020, 135, 115317.	2.9	78
40	Activation of matrix metalloproteinase dilates and decreases cardiac tensile strength. International Journal of Cardiology, 2001, 79, 277-286.	1.7	77
41	Toll-like Receptor 4 Deficiency Reduces Oxidative Stress and Macrophage Mediated Inflammation in Hypertensive Kidney. Scientific Reports, 2017, 7, 6349.	3.3	76
42	Co-expression of tissue inhibitor and matrix metalloproteinase in myocardium. Journal of Molecular and Cellular Cardiology, 1995, 27, 2177-2189.	1.9	75
43	Induction of tissue inhibitor and matrix metalloproteinase by serum in human heartâ€derived fibroblast and endomyocardial endothelial cells. Journal of Cellular Biochemistry, 1995, 58, 360-371.	2.6	74
44	Mechanism of constrictive vascular remodeling by homocysteine: role of PPAR. American Journal of Physiology - Cell Physiology, 2002, 282, C1009-C1015.	4.6	74
45	MicroRNAs Are Involved in Homocysteine-Induced Cardiac Remodeling. Cell Biochemistry and Biophysics, 2009, 55, 153-162.	1.8	74
46	Hydrogen Sulfide Epigenetically Attenuates Homocysteineâ€Induced Mitochondrial Toxicity Mediated Through NMDA Receptor in Mouse Brain Endothelial (bEnd3) Cells. Journal of Cellular Physiology, 2015, 230, 378-394.	4.1	74
47	Homocyst(E)Ine and Heart Disease: Pathophysiology of Extracellular Matrix. Clinical and Experimental Hypertension, 1999, 21, 181-198.	1.3	72
48	Mitochondrial pathways to cardiac recovery: TFAM. Heart Failure Reviews, 2016, 21, 499-517.	3.9	72
49	Reduction-oxidation (Redox) and vascular tissue level of homocyst(e)ine in human coronary atherosclerotic lesions and role in extracellular matrix remodeling and vascular tone. Molecular and Cellular Biochemistry, 1998, 181, 107-116.	3.1	71
50	Homocyst(e)ine induces calcium second messenger in vascular smooth muscle cells. Journal of Cellular Physiology, 2000, 183, 28-36.	4.1	71
51	Proteinases and myocardial extracellular matrix turnover. , 1997, 168, 1-12.		66
52	Fibrinogen induces alterations of endothelial cell tight junction proteins. Journal of Cellular Physiology, 2009, 221, 195-203.	4.1	66
53	MMP-2/TIMP-2/TIMP-4 versus MMP-9/TIMP-3 in transition from compensatory hypertrophy and angiogenesis to decompensatory heart failure[*]. Archives of Physiology and Biochemistry, 2010, 116, 63-72.	2.1	66
54	Hydrogen sulfide epigenetically mitigates bone loss through OPG/RANKL regulation during hyperhomocysteinemia in mice. Bone, 2018, 114, 90-108.	2.9	66

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55	Tetrahydrocurcumin Ameliorates Homocysteinylated Cytochrome-c Mediated Autophagy in Hyperhomocysteinemia Mice after Cerebral Ischemia. Journal of Molecular Neuroscience, 2012, 47, 128-138.	2.3	64
56	Extracellular Matrix Remodeling in the Heart of the Homocysteinemic Obese Rabbit. American Journal of Hypertension, 2005, 18, 692-698.	2.0	63
57	Regulation and involvement of matrix metalloproteinases in vascular diseases. Frontiers in Bioscience - Landmark, 2016, 21, 89-118.	3.0	63
58	Hydrogen sulfide mitigates transition from compensatory hypertrophy to heart failure. Journal of Applied Physiology, 2011, 110, 1093-1100.	2.5	61
59	Dysregulation of Mfn2 and Drp-1 proteins in heart failure. Canadian Journal of Physiology and Pharmacology, 2014, 92, 583-591.	1.4	61
60	Ablation of matrix metalloproteinase-9 gene decreases cerebrovascular permeability and fibrinogen deposition post traumatic brain injury in mice. Metabolic Brain Disease, 2015, 30, 411-426.	2.9	61
61	Homocysteine as a Pathological Biomarker for Bone Disease. Journal of Cellular Physiology, 2017, 232, 2704-2709.	4.1	61
62	Activation of GABAâ€A receptor ameliorates homocysteineâ€induced MMPâ€9 activation by ERK pathway. Journal of Cellular Physiology, 2009, 220, 257-266.	4.1	60
63	Cardiac specific deletion ofN-methyl-d-aspartate receptor 1 ameliorates mtMMP-9 mediated autophagy/mitophagy in hyperhomocysteinemia. Journal of Receptor and Signal Transduction Research, 2010, 30, 78-87.	2.5	60
64	Role of MicroRNA29b in Bloodâ€"Brain Barrier Dysfunction during Hyperhomocysteinemia: An Epigenetic Mechanism. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1212-1222.	4.3	60
65	Homocysteine and hydrogen sulfide in epigenetic, metabolic and microbiota related renovascular hypertension. Pharmacological Research, 2016, 113, 300-312.	7.1	60
66	Synergism in hyperhomocysteinemia and diabetes: role of PPAR gamma and tempol. Cardiovascular Diabetology, 2010, 9, 49.	6.8	58
67	Hyperhomocysteinemia associated skeletal muscle weakness involves mitochondrial dysfunction and epigenetic modifications. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 732-741.	3.8	58
68	Early induction of matrix metalloproteinase-9 transduces signaling in human heart end stage failure. Journal of Cellular and Molecular Medicine, 2005, 9, 704-713.	3.6	55
69	Extracellular matrix regulation of metalloproteinase and antiproteinase in human heart fibroblast cells. , 1996, 167, 137-147.		54
70	Apoptosis in the left ventricle of chronic volume overload causes endocardial endothelial dysfunction in rats. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H1197-H1205.	3.2	53
71	Autophagy mechanism of right ventricular remodeling in murine model of pulmonary artery constriction. American Journal of Physiology - Heart and Circulatory Physiology, 2012, 302, H688-H696.	3.2	52
72	Induction of oxidative stress and disintegrin metalloproteinase in human heart end-stage failure. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2002, 283, L239-L245.	2.9	51

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73	Hydrogen sulfide protects against vascular remodeling from endothelial damage. Amino Acids, 2010, 39, 1161-1169.	2.7	50
74	Functional consequences of the collagen/elastin switch in vascular remodeling in hyperhomocysteinemic wild-type, eNOS^{â^’/â^’}, and iNOS^{â^’/â^’} mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2010, 299, L301-L311.	2.9	50
75	Differential regulation of DNA methylation versus histone acetylation in cardiomyocytes during HHcy in vitro and in vivo: an epigenetic mechanism. Physiological Genomics, 2014, 46, 245-255.	2.3	50
76	Attenuation of Oxidative Stress and Remodeling by Cardiac Inhibitor of Metalloproteinase Protein Transfer. Circulation, 2004, 109, 2123-2128.	1.6	49
77	3-Deazaadenosine mitigates arterial remodeling and hypertension in hyperhomocysteinemic mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2006, 291, L905-L911.	2.9	49
78	Cardiac matrix: A clue for future therapy. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2013, 1832, 2271-2276.	3.8	49
79	Mitochondrial mechanism of oxidative stress and systemic hypertension in hyperhomocysteinemia. Journal of Cellular Biochemistry, 2005, 96, 665-671.	2.6	48
80	Homocysteine in Microvascular Endothelial Cell Barrier Permeability. Cell Biochemistry and Biophysics, 2005, 43, 037-044.	1.8	47
81	Hyperhomocysteinemic Diabetic Cardiomyopathy: Oxidative Stress, Remodeling, and Endothelial-Myocyte Uncoupling. Journal of Cardiovascular Pharmacology and Therapeutics, 2005, 10, 1-10.	2.0	47
82	Peroxisome proliferators compete and ameliorate Hcy-mediated endocardial endothelial cell activation. American Journal of Physiology - Cell Physiology, 2002, 283, C1073-C1079.	4.6	46
83	Homocysteine mediated decrease in bone blood flow and remodeling: Role of folic acid. Journal of Orthopaedic Research, 2011, 29, 1511-1516.	2.3	46
84	Hydrogen sulfide alleviates hyperhomocysteinemia-mediated skeletal muscle atrophy via mitigation of oxidative and endoplasmic reticulum stress injury. American Journal of Physiology - Cell Physiology, 2018, 315, C609-C622.	4.6	46
85	Remodeling of Retinal Architecture in Diabetic Retinopathy: Disruption of Ocular Physiology and Visual Functions by Inflammatory Gene Products and Pyroptosis. Frontiers in Physiology, 2018, 9, 1268.	2.8	45
86	Cytochrome P450 (CYP) 2J2 gene transfection attenuates MMPâ€9 via inhibition of NFâ€Î°Î² in hyperhomocysteinemia. Journal of Cellular Physiology, 2008, 215, 771-781.	4.1	44
87	Ablation of <i>MMP9</i> Gene Ameliorates Paracellular Permeability and Fibrinogenâ€“Amyloid Beta Complex Formation during Hyperhomocysteinemia. Journal of Cerebral Blood Flow and Metabolism, 2014, 34, 1472-1482.	4.3	44
88	Epigenetic mechanisms underlying cardiac degeneration and regeneration. International Journal of Cardiology, 2014, 173, 1-11.	1.7	44
89	Exercise ameliorates high fat diet induced cardiac dysfunction by increasing interleukin 10. Frontiers in Physiology, 2015, 6, 124.	2.8	44
90	Homocysteine, Alcoholism, and Its Potential Epigenetic Mechanism. Alcoholism: Clinical and Experimental Research, 2016, 40, 2474-2481.	2.4	44

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91	Pioglitazone mitigates renal glomerular vascular changes in high-fat, high-calorie-induced type 2 diabetes mellitus. American Journal of Physiology - Renal Physiology, 2006, 291, F694-F701.	2.7	42
92	Stem cells as a therapeutic target for diabetes. Frontiers in Bioscience - Landmark, 2010, 15, 461.	3.0	42
93	Hydrogen Sulfide Promotes Bone Homeostasis by Balancing Inflammatory Cytokine Signaling in CBS-Deficient Mice through an Epigenetic Mechanism. Scientific Reports, 2018, 8, 15226.	3.3	41
94	Homocysteine induces metalloproteinase and shedding of ?-1 integrin in microvessel endothelial cells. Journal of Cellular Biochemistry, 2004, 93, 207-213.	2.6	40
95	Homocysteine decreases blood flow to the brain due to vascular resistance in carotid artery. Neurochemistry International, 2008, 53, 214-219.	3.8	40
96	Cystathionine-Î²-synthase gene transfer and 3-deazaadenosine ameliorate inflammatory response in endothelial cells. American Journal of Physiology - Cell Physiology, 2007, 293, C1779-C1787.	4.6	38
97	Ciglitazone, a PPARÎ³ agonist, ameliorates diabetic nephropathy in part through homocysteine clearance. American Journal of Physiology - Endocrinology and Metabolism, 2008, 295, E1205-E1212.	3.5	38
98	Mitochondrial MMP Activation, Dysfunction and Arrhythmogenesis in Hyperhomocysteinemia. Current Vascular Pharmacology, 2008, 6, 84-92.	1.7	38
99	Role of hydrogen sulfide in skeletal muscle biology and metabolism. Nitric Oxide - Biology and Chemistry, 2015, 46, 66-71.	2.7	38
100	Protease-activated receptor and endothelial-myocyte uncoupling in chronic heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2005, 288, H2770-H2777.	3.2	37
101	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. Annals of the New York Academy of Sciences, 2016, 1363, 138-154.	3.8	37
102	Hydrogen sulfide improves postischemic neoangiogenesis in the hind limb of cystathionine-<i>Î²</i>-synthase mutant mice via PPAR-<i>Î³</i>/VEGF axis. Physiological Reports, 2018, 6, e13858.	1.7	37
103	Reversal of Systemic Hypertension-Associated Cardiac Remodeling in Chronic Pressure Overload Myocardium by Ciglitazone. International Journal of Biological Sciences, 2007, 3, 385-392.	6.4	36
104	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. Journal of Hypertension, 2013, 31, 2270-2281.	0.5	36
105	Restoration of contractility in hyperhomocysteinemia by cardiac-specific deletion of NMDA-R1. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H887-H892.	3.2	35
106	Responses of vascular smooth muscle cell to extracellular matrix degradation. , 1999, 75, 515-527.		34
107	Generation of Nitrotyrosine Precedes Activation of Metalloproteinase in Myocardium of Hyperhomocysteinemic Rats. Antioxidants and Redox Signaling, 2002, 4, 799-804.	5.4	33
108	Homocysteine-induced myofibroblast differentiation in mouse aortic endothelial cells. Journal of Cellular Physiology, 2006, 209, 767-774.	4.1	33

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109	Fibrinogen-Induced Increased Pial Venular Permeability in Mice. Journal of Cerebral Blood Flow and Metabolism, 2012, 32, 150-163.	4.3	33
110	Homocyst(e)ine impairs endocardial endothelial function. Canadian Journal of Physiology and Pharmacology, 1999, 77, 950-957.	1.4	32
111	Differential expression of Î³-aminobutyric acid receptor A (GABAA) and effects of homocysteine. Clinical Chemistry and Laboratory Medicine, 2007, 45, 1777-84.	2.3	32
112	Renal mitochondrial damage and protein modification in type-2 diabetes. Acta Diabetologica, 2008, 45, 75-81.	2.5	32
113	Mesenteric vascular remodeling in hyperhomocysteinemia. Molecular and Cellular Biochemistry, 2011, 348, 99-108.	3.1	31
114	Connecting homocysteine and obesity through pyroptosis, gut microbiome, epigenetics, peroxisome proliferator-activated receptor Î³, and zinc finger protein 407. Canadian Journal of Physiology and Pharmacology, 2018, 96, 971-976.	1.4	31
115	Matrix metalloproteinase inhibition mitigates renovascular remodeling in salt-sensitive hypertension. Physiological Reports, 2013, 1, e00063.	1.7	30
116	Garlic Derived Diallyl Trisulfide in Experimental Metabolic Syndrome: Metabolic Effects and Cardioprotective Role. International Journal of Molecular Sciences, 2020, 21, 9100.	4.1	30
117	Role of Copper and Homocysteine in Pressure Overload Heart Failure. Cardiovascular Toxicology, 2008, 8, 137-144.	2.7	29
118	Dementia-like pathology in type-2 diabetes: A novel microRNA mechanism. Molecular and Cellular Neurosciences, 2017, 80, 58-65.	2.2	29
119	Î³-Aminbuturic Acid A Receptor Mitigates Homocysteine-Induced Endothelial Cell Permeability. Endothelium: Journal of Endothelial Cell Research, 2007, 14, 315-323.	1.7	28
120	Matrix imbalance by inducing expression of metalloproteinase and oxidative stress in cochlea of hyperhomocysteinemic mice. Molecular and Cellular Biochemistry, 2009, 332, 215-224.	3.1	28
121	Folic acid improves acetylcholineâ€induced vasoconstriction of coronary vessels isolated from hyperhomocysteinemic mice: An implication to coronary vasospasm. Journal of Cellular Physiology, 2011, 226, 2712-2720.	4.1	28
122	Matrix metalloproteinaseâ€9 in homocysteineâ€induced intestinal microvascular endothelial paracellular and transcellular permeability. Journal of Cellular Biochemistry, 2012, 113, 1159-1169.	2.6	28
123	Epigenetic regulation of aortic remodeling in hyperhomocysteinemia. FASEB Journal, 2014, 28, 3411-3422.	0.5	28
124	Hyperhomocysteinemia inhibits satellite cell regenerative capacity through p38 alpha/beta MAPK signaling. American Journal of Physiology - Heart and Circulatory Physiology, 2015, 309, H325-H334.	3.2	28
125	Toll-like receptor 4 mutation suppresses hyperhomocysteinemia-induced hypertension. American Journal of Physiology - Cell Physiology, 2016, 311, C596-C606.	4.6	28
126	Genes and genetics in eye diseases: a genomic medicine approach for investigating hereditary and inflammatory ocular disorders. International Journal of Ophthalmology, 2018, 11, 117-134.	1.1	28

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127	Metalloproteinases as mediators of inflammation and the eyes: molecular genetic underpinnings governing ocular pathophysiology. International Journal of Ophthalmology, 2017, 10, 1308-1318.	1.1	28
128	Vasculogenesis and angiogenesis: Extracellular matrix remodeling in coronary collateral arteries and the ischemic heart. Journal of Cellular Biochemistry, 1997, 65, 388-394.	2.6	27
129	Role of nitric oxide in matrix remodeling in diabetes and heart failure. Heart Failure Reviews, 2003, 8, 23-28.	3.9	27
130	Oxidative remodeling in pressure overload induced chronic heart failure. European Journal of Heart Failure, 2007, 9, 450-457.	7.1	26
131	Nitrotyrosinylation, remodeling and endothelialâ€myocyte uncoupling in iNOS, cystathionine beta synthase (CBS) knockouts and iNOS/CBS double knockout mice. Journal of Cellular Biochemistry, 2009, 106, 119-126.	2.6	26
132	Cross-talk of MicroRNA and hydrogen sulfide: A novel therapeutic approach for bone diseases. Biomedicine and Pharmacotherapy, 2017, 92, 1073-1084.	5.6	26
133	Post-menopausal breast cancer: from estrogen to androgen receptor. Oncotarget, 2017, 8, 102739-102758.	1.8	26
134	Peroxisome proliferator ameliorates endothelial dysfunction in a murine model of hyperhomocysteinemia. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 284, L333-L341.	2.9	25
135	GABAA receptor agonist mitigates homocysteine-induced cerebrovascular remodeling in knockout mice. Brain Research, 2008, 1221, 147-153.	2.2	25
136	Homocysteine alters cerebral microvascular integrity and causes remodeling by antagonizing GABA-A receptor. Molecular and Cellular Biochemistry, 2012, 371, 89-96.	3.1	25
137	Hydrogen sulfide inhibits Ca²⁺-induced mitochondrial permeability transition pore opening in type-1 diabetes. American Journal of Physiology - Endocrinology and Metabolism, 2019, 317, E269-E283.	3.5	25
138	High Methionine Diet Poses Cardiac Threat: A Molecular Insight. Journal of Cellular Physiology, 2016, 231, 1554-1561.	4.1	24
139	Localization of Fibrinogen in the Vasculo-Astrocyte Interface after Cortical Contusion Injury in Mice. Brain Sciences, 2017, 7, 77.	2.3	24
140	Circular RNAs profiling in the cystathionine-Î²-synthase mutant mouse reveals novel gene targets for hyperhomocysteinemia induced ocular disorders. Experimental Eye Research, 2018, 174, 80-92.	2.6	24
141	Circular RNAs constitute an inherent gene regulatory axis in the mammalian eye and brain. Canadian Journal of Physiology and Pharmacology, 2019, 97, 463-472.	1.4	24
142	Expression of matrix metalloproteinase activity in idiopathic dilated cardiomyopathy: A marker of cardiac dilatation. Molecular and Cellular Biochemistry, 2004, 264, 183-191.	3.1	23
143	Pioglitazone prevents cardiac remodeling in high-fat, high-calorie-induced Type 2 diabetes mellitus. American Journal of Physiology - Heart and Circulatory Physiology, 2006, 291, H81-H87.	3.2	23
144	Folic acid mitigated cardiac dysfunction by normalizing the levels of tissue inhibitor of metalloproteinase and homocysteine-metabolizing enzymes postmyocardial infarction in mice. American Journal of Physiology - Heart and Circulatory Physiology, 2010, 299, H1484-H1493.	3.2	23

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145	Mitochondrial mitophagic mechanisms of myocardial matrix metabolism and remodelling. Archives of Physiology and Biochemistry, 2012, 118, 31-42.	2.1	23
146	Hypermethylation: Causes and Consequences in Skeletal Muscle Myopathy. Journal of Cellular Biochemistry, 2017, 118, 2108-2117.	2.6	23
147	The cardioprotective effects of diallyl trisulfide on diabetic rats with ex vivo induced ischemia/reperfusion injury. Molecular and Cellular Biochemistry, 2019, 460, 151-164.	3.1	23
148	Hyperhomocysteinemia induced endothelial progenitor cells dysfunction through hyper-methylation of CBS promoter. Biochemical and Biophysical Research Communications, 2019, 510, 135-141.	2.1	23
149	Hydrogen sulfide attenuates homocysteineâ€induced osteoblast dysfunction by inhibiting mitochondrial toxicity. Journal of Cellular Physiology, 2019, 234, 18602-18614.	4.1	23
150	A hypothesis for treating inflammation and oxidative stress with hydrogen sulfide during age-related macular degeneration. International Journal of Ophthalmology, 2018, 11, 881-887.	1.1	23
151	GABA Receptors Ameliorate Hcy-Mediated Integrin Shedding and Constrictive Collagen Remodeling in Microvascular Endothelial Cells. Cell Biochemistry and Biophysics, 2006, 45, 157-166.	1.8	22
152	Homocysteine, brain natriuretic peptide and chronic heart failure: a critical review. Clinical Chemistry and Laboratory Medicine, 2007, 45, 1633-44.	2.3	22
153	Mitochondrial mitophagy in mesenteric artery remodeling in hyperhomocysteinemia. Physiological Reports, 2014, 2, e00283.	1.7	22
154	Mdivi-1 induced acute changes in the angiogenic profile after ischemia-reperfusion injury in female mice. Physiological Reports, 2017, 5, e13298.	1.7	22
155	Exercise preconditioning diminishes skeletal muscle atrophy after hindlimb suspension in mice. Journal of Applied Physiology, 2018, 125, 999-1010.	2.5	22
156	Extracellular matrix dynamics in heart failure: A prospect for gene therapy. Journal of Cellular Biochemistry, 1998, 68, 403-410.	2.6	21
157	Hyperhomocysteinemia and Sudden Cardiac Death: Potential Arrhythmogenic Mechanisms. Current Vascular Pharmacology, 2010, 8, 64-74.	1.7	21
158	Autophagy and Heart Failure: A Possible Role for Homocysteine. Cell Biochemistry and Biophysics, 2012, 62, 1-11.	1.8	21
159	Hyperhomocysteinemia attenuates angiogenesis through reduction of HIF-1Î± and PGC-1Î± levels in muscle fibers during hindlimb ischemia. American Journal of Physiology - Heart and Circulatory Physiology, 2014, 306, H1116-H1127.	3.2	21
160	Elevated Level of Fibrinogen Increases Caveolae Formation; Role of Matrix Metalloproteinase-9. Cell Biochemistry and Biophysics, 2014, 69, 283-294.	1.8	21
161	Mechanisms of Hyperhomocysteinemia Induced Skeletal Muscle Myopathy after Ischemia in the CBSâˆ'/+ Mouse Model. International Journal of Molecular Sciences, 2015, 16, 1252-1265.	4.1	21
162	Role of PPARgamma, a nuclear hormone receptor in neuroprotection. Indian Journal of Biochemistry and Biophysics, 2011, 48, 73-81.	0.0	21

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163	Physiology and homeostasis of extracellular matrix: cardiovascular adaptation and remodeling. Pathophysiology, 2000, 7, 177-182.	2.2	20
164	TFAM overexpression reduces pathological cardiac remodeling. Molecular and Cellular Biochemistry, 2019, 454, 139-152.	3.1	20
165	Expression Analysis of the Circular RNA Molecules in the Human Retinal Cells Treated with Homocysteine. Current Eye Research, 2019, 44, 287-293.	1.5	20
166	Rebuilding Microbiome for Mitigating Traumatic Brain Injury: Importance of Restructuring the Gut-Microbiome-Brain Axis. Molecular Neurobiology, 2021, 58, 3614-3627.	4.0	20
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