

Suresh C Tyagi

List of Publications by Citations

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316
papers

15,683
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53
h-index

119
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326
ext. papers

17,421
ext. citations

3.5
avg, IF

6.38
L-index

#	Paper	IF	Citations
3 ¹⁶	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). <i>Autophagy</i> , 2016 , 12, 1-222	10.2	3838
3 ¹⁵	Guidelines for the use and interpretation of assays for monitoring autophagy. <i>Autophagy</i> , 2012 , 8, 445-546	10.2	2783
3 ¹⁴	Collagen network of the myocardium: function, structural remodeling and regulatory mechanisms. <i>Journal of Molecular and Cellular Cardiology</i> , 1994 , 26, 279-92	5.8	431
3 ¹³	Functional and structural changes in the kidney in the early stages of obesity. <i>Journal of the American Society of Nephrology: JASN</i> , 2001 , 12, 1211-1217	12.7	366
3 ¹²	Mechanisms of homocysteine-induced oxidative stress. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 289, H2649-56	5.2	271
3 ¹¹	Induction of oxidative stress by homocyst(e)ine impairs endothelial function. <i>Journal of Cellular Biochemistry</i> , 2001 , 82, 491-500	4.7	146
3 ¹⁰	Mitochondrial division/mitophagy inhibitor (Mdivi) ameliorates pressure overload induced heart failure. <i>PLoS ONE</i> , 2012 , 7, e32388	3.7	146
3 ⁰⁹	Direct extraction and estimation of collagenase(s) activity by zymography in microquantities of rat myocardium and uterus. <i>Clinical Biochemistry</i> , 1993 , 26, 191-8	3.5	141
3 ⁰⁸	Myocardial matrix metalloproteinase(s): localization and activation. <i>Molecular and Cellular Biochemistry</i> , 1993 , 126, 49-59	4.2	133
3 ⁰⁷	H ₂ S protects against methionine-induced oxidative stress in brain endothelial cells. <i>Antioxidants and Redox Signaling</i> , 2009 , 11, 25-33	8.4	131
3 ⁰⁶	Curcumin-loaded embryonic stem cell exosomes restored neurovascular unit following ischemia-reperfusion injury. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 79, 360-369	5.6	131
3 ⁰⁵	Dietary copper supplementation reverses hypertrophic cardiomyopathy induced by chronic pressure overload in mice. <i>Journal of Experimental Medicine</i> , 2007 , 204, 657-66	16.6	127
3 ⁰⁴	Matrix metalloproteinase activity expression in infarcted, noninfarcted and dilated cardiomyopathic human hearts. <i>Molecular and Cellular Biochemistry</i> , 1996 , 155, 13-21	4.2	127
3 ⁰³	Mechanisms of cardiovascular remodeling in hyperhomocysteinemia. <i>Antioxidants and Redox Signaling</i> , 2011 , 15, 1927-43	8.4	124
3 ⁰²	Homocysteine to hydrogen sulfide or hypertension. <i>Cell Biochemistry and Biophysics</i> , 2010 , 57, 49-58	3.2	124
3 ⁰¹	Hydrogen sulfide ameliorates hyperhomocysteinemia-associated chronic renal failure. <i>American Journal of Physiology - Renal Physiology</i> , 2009 , 297, F410-9	4.3	122
3 ⁰⁰	Cardiosome mediated regulation of MMP9 in diabetic heart: role of mir29b and mir455 in exercise. <i>Journal of Cellular and Molecular Medicine</i> , 2015 , 19, 2153-61	5.6	109

299	Browning of White Fat: Novel Insight Into Factors, Mechanisms, and Therapeutics. <i>Journal of Cellular Physiology</i> , 2017 , 232, 61-8	7	105
298	Homocysteine redox receptor and regulation of extracellular matrix components in vascular cells. <i>American Journal of Physiology - Cell Physiology</i> , 1998 , 274, C396-405	5.4	92
297	Temporal regulation of extracellular matrix components in transition from compensatory hypertrophy to decompensatory heart failure. <i>Journal of Hypertension</i> , 1999 , 17, 261-70	1.9	91
296	Reversal of endocardial endothelial dysfunction by folic acid in homocysteinemic hypertensive rats. <i>American Journal of Hypertension</i> , 2002 , 15, 157-63	2.3	89
295	Increased endogenous H ₂ S generation by CBS, CSE, and 3MST gene therapy improves ex vivo renovascular relaxation in hyperhomocysteinemia. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 303, C41-51	5.4	82
294	Mitochondrial matrix metalloproteinase activation decreases myocyte contractility in hyperhomocysteinemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2008 , 295, H890-7	5.2	81
293	Homocysteine causes cerebrovascular leakage in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 290, H1206-13	5.2	81
292	Matrix metalloproteinases in atherosclerosis: role of nitric oxide, hydrogen sulfide, homocysteine, and polymorphisms. <i>Vascular Health and Risk Management</i> , 2015 , 11, 173-83	4.4	80
291	Hydrogen sulfide mitigates cardiac remodeling during myocardial infarction via improvement of angiogenesis. <i>International Journal of Biological Sciences</i> , 2012 , 8, 430-41	11.2	80
290	Regulation of homocysteine-induced MMP-9 by ERK1/2 pathway. <i>American Journal of Physiology - Cell Physiology</i> , 2006 , 290, C883-91	5.4	79
289	H ₂ S ameliorates oxidative and proteolytic stresses and protects the heart against adverse remodeling in chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 298, H451-6	5.2	78
288	Proteinases and restenosis in the human coronary artery: extracellular matrix production exceeds the expression of proteolytic activity. <i>Atherosclerosis</i> , 1995 , 116, 43-57	3.1	77
287	Tissue inhibitor of metalloproteinase-4 instigates apoptosis in transformed cardiac fibroblasts. <i>Journal of Cellular Biochemistry</i> , 2001 , 80, 512-21	4.7	74
286	Mitochondrial mechanism of microvascular endothelial cells apoptosis in hyperhomocysteinemia. <i>Journal of Cellular Biochemistry</i> , 2006 , 98, 1150-62	4.7	71
285	Co-expression of tissue inhibitor and matrix metalloproteinase in myocardium. <i>Journal of Molecular and Cellular Cardiology</i> , 1995 , 27, 2177-89	5.8	71
284	Homocysteine-mediated activation and mitochondrial translocation of calpain regulates MMP-9 in MVEC. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H2825-35	5.2	70
283	Activation of matrix metalloproteinase dilates and decreases cardiac tensile strength. <i>International Journal of Cardiology</i> , 2001 , 79, 277-86	3.2	69
282	Induction of tissue inhibitor and matrix metalloproteinase by serum in human heart-derived fibroblast and endomyocardial endothelial cells. <i>Journal of Cellular Biochemistry</i> , 1995 , 58, 360-71	4.7	68

281	Hydrogen sulfide regulates homocysteine-mediated glomerulosclerosis. <i>American Journal of Nephrology</i> , 2010 , 31, 442-55	4.6	67
280	Stretch-induced membrane type matrix metalloproteinase and tissue plasminogen activator in cardiac fibroblast cells. <i>Journal of Cellular Physiology</i> , 1998 , 176, 374-82	7	67
279	The Role of Exercise and TFAM in Preventing Skeletal Muscle Atrophy. <i>Journal of Cellular Physiology</i> , 2017 , 232, 2348-2358	7	66
278	Homocyst(e)ine induces calcium second messenger in vascular smooth muscle cells. <i>Journal of Cellular Physiology</i> , 2000 , 183, 28-36	7	66
277	MicroRNAs are involved in homocysteine-induced cardiac remodeling. <i>Cell Biochemistry and Biophysics</i> , 2009 , 55, 153-62	3.2	65
276	Mechanism of constrictive vascular remodeling by homocysteine: role of PPAR. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 282, C1009-15	5.4	65
275	Hydrogen Sulfide Epigenetically Attenuates Homocysteine-Induced Mitochondrial Toxicity Mediated Through NMDA Receptor in Mouse Brain Endothelial (bEnd3) Cells. <i>Journal of Cellular Physiology</i> , 2015 , 230, 378-94	7	64
274	Fibrinogen induces endothelial cell permeability. <i>Molecular and Cellular Biochemistry</i> , 2008 , 307, 13-22	4.2	62
273	Homocyst(e)ine and heart disease: pathophysiology of extracellular matrix. <i>Clinical and Experimental Hypertension</i> , 1999 , 21, 181-98	2.2	62
272	MMP-2/TIMP-2/TIMP-4 versus MMP-9/TIMP-3 in transition from compensatory hypertrophy and angiogenesis to decompensatory heart failure. <i>Archives of Physiology and Biochemistry</i> , 2010 , 116, 63-72	2.2	61
271	Proteinases and myocardial extracellular matrix turnover. <i>Molecular and Cellular Biochemistry</i> , 1997 , 168, 1-12	4.2	61
270	Toll-like Receptor 4 Deficiency Reduces Oxidative Stress and Macrophage Mediated Inflammation in Hypertensive Kidney. <i>Scientific Reports</i> , 2017 , 7, 6349	4.9	59
269	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. <i>Molecular and Cellular Biochemistry</i> , 1998 , 181, 107-16	4.2	59
268	Fibrinogen induces alterations of endothelial cell tight junction proteins. <i>Journal of Cellular Physiology</i> , 2009 , 221, 195-203	7	55
267	Extracellular matrix remodeling in the heart of the homocysteinemic obese rabbit. <i>American Journal of Hypertension</i> , 2005 , 18, 692-8	2.3	55
266	Exosomes: cell-created drug delivery systems. <i>Molecular and Cellular Biochemistry</i> , 2019 , 459, 1-6	4.2	53
265	Hydrogen sulfide mitigates transition from compensatory hypertrophy to heart failure. <i>Journal of Applied Physiology</i> , 2011 , 110, 1093-100	3.7	53
264	Moderate intensity exercise prevents diabetic cardiomyopathy associated contractile dysfunction through restoration of mitochondrial function and connexin 43 levels in db/db mice. <i>Journal of Molecular and Cellular Cardiology</i> , 2016 , 92, 163-173	5.8	52

263	Role of microRNA29b in blood-brain barrier dysfunction during hyperhomocysteinemia: an epigenetic mechanism. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1212-22	7.3	52
262	Tetrahydrocurcumin ameliorates homocysteinylated cytochrome-c mediated autophagy in hyperhomocysteinemia mice after cerebral ischemia. <i>Journal of Molecular Neuroscience</i> , 2012 , 47, 128-38 ³	3.3	52
261	Activation of GABA-A receptor ameliorates homocysteine-induced MMP-9 activation by ERK pathway. <i>Journal of Cellular Physiology</i> , 2009 , 220, 257-66	7	52
260	Mitochondrial pathways to cardiac recovery: TFAM. <i>Heart Failure Reviews</i> , 2016 , 21, 499-517	5	52
259	Cardiac specific deletion of N-methyl-d-aspartate receptor 1 ameliorates mtMMP-9 mediated autophagy/mitophagy in hyperhomocysteinemia. <i>Journal of Receptor and Signal Transduction Research</i> , 2010 , 30, 78-87	2.6	51
258	Synergism in hyperhomocysteinemia and diabetes: role of PPAR gamma and tempol. <i>Cardiovascular Diabetology</i> , 2010 , 9, 49	8.7	50
257	Extracellular matrix regulation of metalloproteinase and antiproteinase in human heart fibroblast cells. <i>Journal of Cellular Physiology</i> , 1996 , 167, 137-47	7	50
256	Early induction of matrix metalloproteinase-9 transduces signaling in human heart end stage failure. <i>Journal of Cellular and Molecular Medicine</i> , 2005 , 9, 704-13	5.6	49
255	Dysregulation of Mfn2 and Drp-1 proteins in heart failure. <i>Canadian Journal of Physiology and Pharmacology</i> , 2014 , 92, 583-91	2.4	48
254	Hyperhomocysteinemia associated skeletal muscle weakness involves mitochondrial dysfunction and epigenetic modifications. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015 , 1852, 732-41	6.9	47
253	Functional consequences of the collagen/elastin switch in vascular remodeling in hyperhomocysteinemic wild-type, eNOS ^{-/-} , and iNOS ^{-/-} mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2010 , 299, L301-11	5.8	47
252	Hydrogen sulfide protects against vascular remodeling from endothelial damage. <i>Amino Acids</i> , 2010 , 39, 1161-9	3.5	47
251	Regulation and involvement of matrix metalloproteinases in vascular diseases. <i>Frontiers in Bioscience - Landmark</i> , 2016 , 21, 89-118	2.8	47
250	Ablation of matrix metalloproteinase-9 gene decreases cerebrovascular permeability and fibrinogen deposition post traumatic brain injury in mice. <i>Metabolic Brain Disease</i> , 2015 , 30, 411-26	3.9	46
249	Autophagy mechanism of right ventricular remodeling in murine model of pulmonary artery constriction. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012 , 302, H688-96	5.2	46
248	Attenuation of oxidative stress and remodeling by cardiac inhibitor of metalloproteinase protein transfer. <i>Circulation</i> , 2004 , 109, 2123-8	16.7	45
247	Mitochondrial mechanism of oxidative stress and systemic hypertension in hyperhomocysteinemia. <i>Journal of Cellular Biochemistry</i> , 2005 , 96, 665-71	4.7	45
246	Hydrogen sulfide epigenetically mitigates bone loss through OPG/RANKL regulation during hyperhomocysteinemia in mice. <i>Bone</i> , 2018 , 114, 90-108	4.7	44

245	Apoptosis in the left ventricle of chronic volume overload causes endocardial endothelial dysfunction in rats. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2002 , 282, H1197-205	5.3	44
244	Hyperhomocysteinemic diabetic cardiomyopathy: oxidative stress, remodeling, and endothelial-myocyte uncoupling. <i>Journal of Cardiovascular Pharmacology and Therapeutics</i> , 2005 , 10, 1-10	2.6	44
243	Peroxisome proliferators compete and ameliorate Hcy-mediated endocardial endothelial cell activation. <i>American Journal of Physiology - Cell Physiology</i> , 2002 , 283, C1073-9	5.4	43
242	3-Deazaadenosine mitigates arterial remodeling and hypertension in hyperhomocysteinemic mice. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2006 , 291, L905-11	5.8	42
241	Induction of oxidative stress and disintegrin metalloproteinase in human heart end-stage failure. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2002 , 283, L239-45	5.8	42
240	Differential regulation of DNA methylation versus histone acetylation in cardiomyocytes during HHcy in vitro and in vivo: an epigenetic mechanism. <i>Physiological Genomics</i> , 2014 , 46, 245-55	3.6	41
239	Cardiac matrix: a clue for future therapy. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2013 , 1832, 2271-6	6.9	41
238	Homocysteine mediated decrease in bone blood flow and remodeling: role of folic acid. <i>Journal of Orthopaedic Research</i> , 2011 , 29, 1511-6	3.8	40
237	Cytochrome P450 (CYP) 2J2 gene transfection attenuates MMP-9 via inhibition of NF-kappabeta in hyperhomocysteinemia. <i>Journal of Cellular Physiology</i> , 2008 , 215, 771-81	7	40
236	Homocysteine and hydrogen sulfide in epigenetic, metabolic and microbiota related renovascular hypertension. <i>Pharmacological Research</i> , 2016 , 113, 300-312	10.2	40
235	Epigenetic mechanisms underlying cardiac degeneration and regeneration. <i>International Journal of Cardiology</i> , 2014 , 173, 1-11	3.2	39
234	Homocysteine as a Pathological Biomarker for Bone Disease. <i>Journal of Cellular Physiology</i> , 2017 , 232, 2704-2709	7	39
233	Homocysteine in microvascular endothelial cell barrier permeability. <i>Cell Biochemistry and Biophysics</i> , 2005 , 43, 37-44	3.2	39
232	Pioglitazone mitigates renal glomerular vascular changes in high-fat, high-calorie-induced type 2 diabetes mellitus. <i>American Journal of Physiology - Renal Physiology</i> , 2006 , 291, F694-701	4.3	38
231	Homocysteine induces metalloproteinase and shedding of beta-1 integrin in microvessel endothelial cells. <i>Journal of Cellular Biochemistry</i> , 2004 , 93, 207-13	4.7	38
230	Role of hydrogen sulfide in skeletal muscle biology and metabolism. <i>Nitric Oxide - Biology and Chemistry</i> , 2015 , 46, 66-71	5	36
229	Mitochondrial MMP activation, dysfunction and arrhythmogenesis in hyperhomocysteinemia. <i>Current Vascular Pharmacology</i> , 2008 , 6, 84-92	3.3	35
228	Cystathionine-beta-synthase gene transfer and 3-deazaadenosine ameliorate inflammatory response in endothelial cells. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 293, C1779-87	5.4	35

227	Homocysteine, Alcoholism, and Its Potential Epigenetic Mechanism. <i>Alcoholism: Clinical and Experimental Research</i> , 2016 , 40, 2474-2481	3-7	34
226	Hydrogen sulfide alleviates hyperhomocysteinemia-mediated skeletal muscle atrophy via mitigation of oxidative and endoplasmic reticulum stress injury. <i>American Journal of Physiology - Cell Physiology</i> , 2018 , 315, C609-C622	5-4	34
225	Ablation of MMP9 gene ameliorates paracellular permeability and fibrinogen-amyloid beta complex formation during hyperhomocysteinemia. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2014 , 34, 1472-82	7-3	34
224	Stem cells as a therapeutic target for diabetes. <i>Frontiers in Bioscience - Landmark</i> , 2010 , 15, 461-77	2-8	34
223	Homocysteine decreases blood flow to the brain due to vascular resistance in carotid artery. <i>Neurochemistry International</i> , 2008 , 53, 214-9	4-4	34
222	Restoration of contractility in hyperhomocysteinemia by cardiac-specific deletion of NMDA-R1. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2009 , 296, H887-92	5-2	33
221	Protease-activated receptor and endothelial-myocyte uncoupling in chronic heart failure. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2005 , 288, H2770-7	5-2	33
220	Reversal of systemic hypertension-associated cardiac remodeling in chronic pressure overload myocardium by ciglitazone. <i>International Journal of Biological Sciences</i> , 2007 , 3, 385-92	11-2	31
219	Responses of vascular smooth muscle cell to extracellular matrix degradation 1999 , 75, 515-527		31
218	Homocyst(e)ine impairs endocardial endothelial function. <i>Canadian Journal of Physiology and Pharmacology</i> , 1999 , 77, 950-957	2-4	31
217	Exercise ameliorates high fat diet induced cardiac dysfunction by increasing interleukin 10. <i>Frontiers in Physiology</i> , 2015 , 6, 124	4-6	30
216	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. <i>Journal of Hypertension</i> , 2013 , 31, 2270-81; discussion 2281	1-9	30
215	Hydrogen Sulfide Promotes Bone Homeostasis by Balancing Inflammatory Cytokine Signaling in CBS-Deficient Mice through an Epigenetic Mechanism. <i>Scientific Reports</i> , 2018 , 8, 15226	4-9	30
214	Mesenteric vascular remodeling in hyperhomocysteinemia. <i>Molecular and Cellular Biochemistry</i> , 2011 , 348, 99-108	4-2	29
213	The role of gut microbiota in bone homeostasis. <i>Bone</i> , 2020 , 135, 115317	4-7	28
212	Fibrinogen-induced increased pial venular permeability in mice. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2012 , 32, 150-63	7-3	28
211	Renal mitochondrial damage and protein modification in type-2 diabetes. <i>Acta Diabetologica</i> , 2008 , 45, 75-81	3-9	28
210	Homocysteine-induced myofibroblast differentiation in mouse aortic endothelial cells. <i>Journal of Cellular Physiology</i> , 2006 , 209, 767-74	7	28

209	Generation of nitrotyrosine precedes activation of metalloproteinase in myocardium of hyperhomocysteinemic rats. <i>Antioxidants and Redox Signaling</i> , 2002 , 4, 799-804	8.4	28
208	Ciglitazone, a PPARgamma agonist, ameliorates diabetic nephropathy in part through homocysteine clearance. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2008 , 295, E1205-12	6.6	27
207	Atherogenesis: hyperhomocysteinemia interactions with LDL, macrophage function, paraoxonase 1, and exercise. <i>Annals of the New York Academy of Sciences</i> , 2016 , 1363, 138-54	6.5	27
206	Remodeling of Retinal Architecture in Diabetic Retinopathy: Disruption of Ocular Physiology and Visual Functions by Inflammatory Gene Products and Pyroptosis. <i>Frontiers in Physiology</i> , 2018 , 9, 1268	4.6	27
205	Matrix imbalance by inducing expression of metalloproteinase and oxidative stress in cochlea of hyperhomocysteinemic mice. <i>Molecular and Cellular Biochemistry</i> , 2009 , 332, 215-24	4.2	26
204	Role of nitric oxide in matrix remodeling in diabetes and heart failure. <i>Heart Failure Reviews</i> , 2003 , 8, 23-8	5	26
203	Dementia-like pathology in type-2 diabetes: A novel microRNA mechanism. <i>Molecular and Cellular Neurosciences</i> , 2017 , 80, 58-65	4.8	25
202	Nitrotyrosinylation, remodeling and endothelial-myocyte uncoupling in iNOS, cystathionine beta synthase (CBS) knockouts and iNOS/CBS double knockout mice. <i>Journal of Cellular Biochemistry</i> , 2009 , 106, 119-26	4.7	25
201	gamma-Aminobutyric acid A receptor mitigates homocysteine-induced endothelial cell permeability. <i>Endothelium: Journal of Endothelial Cell Research</i> , 2007 , 14, 315-23		25
200	Matrix Metalloproteinase Inhibition Mitigates Renovascular Remodeling in Salt-Sensitive Hypertension. <i>Physiological Reports</i> , 2013 , 1, e00063	2.6	24
199	Vasculogenesis and angiogenesis: Extracellular matrix remodeling in coronary collateral arteries and the ischemic heart. <i>Journal of Cellular Biochemistry</i> , 1997 , 65, 388-394	4.7	24
198	Toll-like receptor 4 mutation suppresses hyperhomocysteinemia-induced hypertension. <i>American Journal of Physiology - Cell Physiology</i> , 2016 , 311, C596-C606	5.4	24
197	Cross-talk of MicroRNA and hydrogen sulfide: A novel therapeutic approach for bone diseases. <i>Biomedicine and Pharmacotherapy</i> , 2017 , 92, 1073-1084	7.5	23
196	Epigenetic regulation of aortic remodeling in hyperhomocysteinemia. <i>FASEB Journal</i> , 2014 , 28, 3411-22	0.9	23
195	GABAA receptor agonist mitigates homocysteine-induced cerebrovascular remodeling in knockout mice. <i>Brain Research</i> , 2008 , 1221, 147-53	3.7	23
194	Differential expression of gamma-aminobutyric acid receptor A (GABA(A)) and effects of homocysteine. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007 , 45, 1777-84	5.9	23
193	Peroxisome proliferator ameliorates endothelial dysfunction in a murine model of hyperhomocysteinemia. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2003 , 284, L333-41	5.8	23
192	Hydrogen sulfide improves postischemic neovascularization in the hind limb of cystathionine-beta synthase mutant mice via PPAR-gamma/VEGF axis. <i>Physiological Reports</i> , 2018 , 6, e13858	2.6	23

191	Matrix metalloproteinase-9 in homocysteine-induced intestinal microvascular endothelial paracellular and transcellular permeability. <i>Journal of Cellular Biochemistry</i> , 2012 , 113, 1159-69	4.7	21
190	Mitochondrial mitophagic mechanisms of myocardial matrix metabolism and remodelling. <i>Archives of Physiology and Biochemistry</i> , 2012 , 118, 31-42	2.2	21
189	Role of copper and homocysteine in pressure overload heart failure. <i>Cardiovascular Toxicology</i> , 2008 , 8, 137-44	3.4	21
188	Oxidative remodeling in pressure overload induced chronic heart failure. <i>European Journal of Heart Failure</i> , 2007 , 9, 450-7	12.3	21
187	Role of PPARgamma, a nuclear hormone receptor in neuroprotection. <i>Indian Journal of Biochemistry and Biophysics</i> , 2011 , 48, 73-81		21
186	Hyperhomocysteinemia inhibits satellite cell regenerative capacity through p38 alpha/beta MAPK signaling. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2015 , 309, H325-34	5.2	20
185	Mitochondrial mitophagy in mesenteric artery remodeling in hyperhomocysteinemia. <i>Physiological Reports</i> , 2014 , 2, e00283	2.6	20
184	Hyperhomocysteinemia attenuates angiogenesis through reduction of HIF-1 α and PGC-1 β levels in muscle fibers during hindlimb ischemia. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2014 , 306, H1116-27	5.2	20
183	Folic acid mitigated cardiac dysfunction by normalizing the levels of tissue inhibitor of metalloproteinase and homocysteine-metabolizing enzymes postmyocardial infarction in mice. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2010 , 299, H1484-93	5.2	20
182	Extracellular matrix dynamics in heart failure: A prospect for gene therapy. <i>Journal of Cellular Biochemistry</i> , 1998 , 68, 403-410	4.7	20
181	Pioglitazone prevents cardiac remodeling in high-fat, high-calorie-induced Type 2 diabetes mellitus. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2006 , 291, H81-7	5.2	20
180	Physiology and homeostasis of extracellular matrix: cardiovascular adaptation and remodeling. <i>Pathophysiology</i> , 2000 , 7, 177-182	1.8	20
179	Mdivi-1 induced acute changes in the angiogenic profile after ischemia-reperfusion injury in female mice. <i>Physiological Reports</i> , 2017 , 5, e13298	2.6	19
178	Mechanisms of hyperhomocysteinemia induced skeletal muscle myopathy after ischemia in the CBS-/+ mouse model. <i>International Journal of Molecular Sciences</i> , 2015 , 16, 1252-65	6.3	19
177	High Methionine Diet Poses Cardiac Threat: A Molecular Insight. <i>Journal of Cellular Physiology</i> , 2016 , 231, 1554-61	7	19
176	Autophagy and heart failure: a possible role for homocysteine. <i>Cell Biochemistry and Biophysics</i> , 2012 , 62, 1-11	3.2	19
175	Homocysteine alters cerebral microvascular integrity and causes remodeling by antagonizing GABA-A receptor. <i>Molecular and Cellular Biochemistry</i> , 2012 , 371, 89-96	4.2	19
174	Expression of matrix metalloproteinase activity in idiopathic dilated cardiomyopathy: a marker of cardiac dilatation. <i>Molecular and Cellular Biochemistry</i> , 2004 , 264, 183-91	4.2	19

173	X-ray imaging of differential vascular density in MMP-9 ^{-/-} , PAR-1 ^{+/+} , hyperhomocysteinemic (CBS ^{-/+}) and diabetic (Ins2 ^{-/+}) mice. <i>Archives of Physiology and Biochemistry</i> , 2011 , 117, 1-7	2.2	18
172	Hyperhomocysteinemia and sudden cardiac death: potential arrhythmogenic mechanisms. <i>Current Vascular Pharmacology</i> , 2010 , 8, 64-74	3.3	18
171	Homocysteine, brain natriuretic peptide and chronic heart failure: a critical review. <i>Clinical Chemistry and Laboratory Medicine</i> , 2007 , 45, 1633-44	5.9	18
170	GABA receptors ameliorate Hcy-mediated integrin shedding and constrictive collagen remodeling in microvascular endothelial cells. <i>Cell Biochemistry and Biophysics</i> , 2006 , 45, 157-65	3.2	18
169	Post-menopausal breast cancer: from estrogen to androgen receptor. <i>Oncotarget</i> , 2017 , 8, 102739-102758	3.8	18
168	Folic acid improves acetylcholine-induced vasoconstriction of coronary vessels isolated from hyperhomocysteinemic mice: an implication to coronary vasospasm. <i>Journal of Cellular Physiology</i> , 2011 , 226, 2712-20	7	17
167	Arrhythmia and neuronal/endothelial myocyte uncoupling in hyperhomocysteinemia. <i>Archives of Physiology and Biochemistry</i> , 2006 , 112, 219-27	2.2	17
166	GABA receptors and nitric oxide ameliorate constrictive collagen remodeling in hyperhomocysteinemia. <i>Journal of Cellular Physiology</i> , 2005 , 205, 422-7	7	17
165	A hypothesis for treating inflammation and oxidative stress with hydrogen sulfide during age-related macular degeneration. <i>International Journal of Ophthalmology</i> , 2018 , 11, 881-887	1.4	17
164	Ablation of Matrix Metalloproteinase-9 Prevents Cardiomyocytes Contractile Dysfunction in Diabetics. <i>Frontiers in Physiology</i> , 2016 , 7, 93	4.6	17
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