Hanjoong Jo

List of Publications by Year in Descending Order

207 papers	12,511 citations	63 h-index	106 g-index
241 ext. papers	13,849 ext. citations	6.4 avg, IF	6.12 L-index

#	Paper	IF	Citations
207	Targeting mechanosensitive endothelial TXNDC5 to stabilize eNOS and reduce atherosclerosis in vivo.. *Science Advances*, **2022**, 8, eabl8096	14.3	0
206	Hypoxia inducible factor 1-inhibitor PX-478 reduces atherosclerosis in mice.. *Atherosclerosis*, **2022**, 344, 20-30	3.1	2
205	Recent Progress in Models for Atherosclerosis Studies.. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 790529	5.4	3
204	Atorvastatin and blood flow regulate expression of distinctive sets of genes in mouse carotid artery endothelium. *Current Topics in Membranes*, **2021**, 87, 97-130	2.2	0
203	Conditional Antisense Oligonucleotides Triggered by miRNA. *ACS Chemical Biology*, **2021**, 16, 2255-2267	4.9	1
202	Recent advances in nanomaterials for therapy and diagnosis for atherosclerosis. *Advanced Drug Delivery Reviews*, **2021**, 170, 142-199	18.5	24
201	Very late vasomotor responses and gene expression with bioresorbable scaffolds and metallic drug-eluting stents. *Catheterization and Cardiovascular Interventions*, **2021**, 98, 723-732	2.7	0
200	Delivery of siRNA to Endothelial Cells In Vivo Using Lysine/Histidine Oligopeptide-Modified Poly(-amino ester) Nanoparticles. *Cardiovascular Engineering and Technology*, **2021**, 12, 114-125	2.2	5
199	Special Issue on Professor John M. Tarbell's Contribution to Cardiovascular Engineering. *Cardiovascular Engineering and Technology*, **2021**, 12, 1-8	2.2	
198	Delivery of Anti-microRNA-712 to Inflamed Endothelial Cells Using Poly(-amino ester) Nanoparticles Conjugated with VCAM-1 Targeting Peptide. *Advanced Healthcare Materials*, **2021**, 10, e2001894	10.1	8
197	Biomechanical regulation of endothelial function in atherosclerosis **2021**, 3-47		1
196	Focal Adhesion Kinase Activity and Localization is Critical for TNF-Induced Nuclear Factor-B Activation. *Inflammation*, **2021**, 44, 1130-1144	5.1	2
195	Mechanical forces regulate endothelial-to-mesenchymal transition and atherosclerosis via an Alk5-Shc mechanotransduction pathway. *Science Advances*, **2021**, 7,	14.3	7
194	Combined LXR and RXR Agonist Therapy Increases ABCA1 Protein Expression and Enhances ApoAI-Mediated Cholesterol Efflux in Cultured Endothelial Cells. *Metabolites*, **2021**, 11,	5.6	3
193	Endothelial Poldip2 regulates sepsis-induced lung injury via Rho pathway activation. *Cardiovascular Research*, **2021**,	9.9	2
192	Characterization of Poldip2 knockout mice: Avoiding incorrect gene targeting.. *PLoS ONE*, **2021**, 16, e0247261	3.7	2
191	Endothelial Reprogramming by Disturbed Flow Revealed by Single-Cell RNA and Chromatin Accessibility Study. *Cell Reports*, **2020**, 33, 108491	10.6	37

190	Targeted Intravenous Nanoparticle Delivery: Role of Flow and Endothelial Glycocalyx Integrity. *Annals of Biomedical Engineering*, **2020**, 48, 1941-1954	4.7	8
189	Affinity-Driven Design of Cargo-Switching Nanoparticles to Leverage a Cholesterol-Rich Microenvironment for Atherosclerosis Therapy. *ACS Nano*, **2020**, 14, 6519-6531	16.7	30
188	Role of Biomechanical Stress and Mechanosensitive miRNAs in Calcific Aortic Valve Disease. *Contemporary Cardiology*, **2020**, 117-135	0.1	
187	The histone demethylase JMJD2B regulates endothelial-to-mesenchymal transition. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 4180-4187	11.5	19
186	Conditional Deoxyribozyme-Nanoparticle Conjugates for miRNA-Triggered Gene Regulation. *ACS Applied Materials & Interfaces*, **2020**, 12, 37851-37861	9.5	4
185	Deletion of NoxO1 limits atherosclerosis development in female mice. *Redox Biology*, **2020**, 37, 101713	11.3	3
184	miR-214 is Stretch-Sensitive in Aortic Valve and Inhibits Aortic Valve Calcification. *Annals of Biomedical Engineering*, **2019**, 47, 1106-1115	4.7	10
183	The novel coronary artery disease risk gene JCAD/KIAA1462 promotes endothelial dysfunction and atherosclerosis. *European Heart Journal*, **2019**, 40, 2398-2408	9.5	30
182	Role of Noncoding RNAs in the Pathogenesis of Abdominal Aortic Aneurysm. *Circulation Research*, **2019**, 124, 619-630	15.7	44
181	ZBTB46 is a shear-sensitive transcription factor inhibiting endothelial cell proliferation via gene expression regulation of cell cycle proteins. *Laboratory Investigation*, **2019**, 99, 305-318	5.9	17
180	The flagellin-TLR5-Nox4 axis promotes the migration of smooth muscle cells in atherosclerosis. *Experimental and Molecular Medicine*, **2019**, 51, 1-13	12.8	8
179	Disturbed Flow Increases UBE2C (Ubiquitin E2 Ligase C) via Loss of miR-483-3p, Inducing Aortic Valve Calcification by the pVHL (von Hippel-Lindau Protein) and HIF-1 (Hypoxia-Inducible Factor-1) Pathway in Endothelial Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 467-481	9.4	32
178	Role of flow-sensitive microRNAs and long noncoding RNAs in vascular dysfunction and atherosclerosis. *Vascular Pharmacology*, **2019**, 114, 76-92	5.9	63
177	Vascular Semaphorin 7A Upregulation by Disturbed Flow Promotes Atherosclerosis Through Endothelial 1 Integrin. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 335-343	9.4	41
176	Mechanosensitive microRNA-181b Regulates Aortic Valve Endothelial Matrix Degradation by Targeting TIMP3. *Cardiovascular Engineering and Technology*, **2018**, 9, 141-150	2.2	22
175	Altered Amygdala Resting-State Functional Connectivity and Hemispheric Asymmetry in Patients With Social Anxiety Disorder. *Frontiers in Psychiatry*, **2018**, 9, 164	5	24
174	3D Imaging and Quantitative Analysis of Vascular Networks: A Comparison of Ultramicroscopy and Micro-Computed Tomography. *Theranostics*, **2018**, 8, 2117-2133	12.1	29
173	Oxidized phospholipids regulate amino acid metabolism through MTHFD2 to facilitate nucleotide release in endothelial cells. *Nature Communications*, **2018**, 9, 2292	17.4	26

172	Disturbed Blood Flow induces Arterial Stiffening Through Thrombospondin-1. *FASEB Journal*, **2018**, 32, 143.1	0.9	
171	Accelerated atherosclerosis development in C57Bl6 mice by overexpressing AAV-mediated PCSK9 and partial carotid ligation. *Laboratory Investigation*, **2017**, 97, 935-945	5.9	39
170	KLF2 and KLF4 control endothelial identity and vascular integrity. *JCI Insight*, **2017**, 2, e91700	9.9	100
169	Mechanical Activation of Hypoxia-Inducible Factor 1 Drives Endothelial Dysfunction at Atheroprone Sites. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 2087-2101	9.4	96
168	Disturbed Flow Promotes Arterial Stiffening Through Thrombospondin-1. *Circulation*, **2017**, 136, 1217-1232	26.7	29
167	Conserved Gene Microsynteny Unveils Functional Interaction Between Protein Disulfide Isomerase and Rho Guanine-Dissociation Inhibitor Families. *Scientific Reports*, **2017**, 7, 17262	4.9	10
166	Functional screening of mammalian mechanosensitive genes using Drosophila RNAi library-Smarcd3/Bap60 is a mechanosensitive pro-inflammatory gene. *Scientific Reports*, **2016**, 6, 36461	4.9	3
165	The role of endothelial mechanosensitive genes in atherosclerosis and omics approaches. *Archives of Biochemistry and Biophysics*, **2016**, 591, 111-31	4.1	34
164	Shear-Sensitive Genes in Aortic Valve Endothelium. *Antioxidants and Redox Signaling*, **2016**, 25, 401-14	8.4	30
163	Hemodynamics and Mechanobiology of Aortic Valve Calcification. *Biosystems and Biorobotics*, **2016**, 237-261	2.1	2
162	High glucose and palmitate increases bone morphogenic protein 4 expression in human endothelial cells. *Korean Journal of Physiology and Pharmacology*, **2016**, 20, 169-75	1.8	7
161	Targeted Delivery of Anti-miR-712 by VCAM1-Binding Au Nanospheres for Atherosclerosis Therapy. *ChemNanoMat*, **2016**, 2, 400-406	3.5	12
160	Omics-based approaches to understand mechanosensitive endothelial biology and atherosclerosis. *Wiley Interdisciplinary Reviews: Systems Biology and Medicine*, **2016**, 8, 378-401	6.6	12
159	Simulated Microgravity and 3D Culture Enhance Induction, Viability, Proliferation and Differentiation of Cardiac Progenitors from Human Pluripotent Stem Cells. *Scientific Reports*, **2016**, 6, 30956	4.9	49
158	Deep transcriptomic profiling reveals the similarity between endothelial cells cultured under static and oscillatory shear stress conditions. *Physiological Genomics*, **2016**, 48, 660-6	3.6	19
157	Discovery of novel peptides targeting pro-atherogenic endothelium in disturbed flow regions -Targeted siRNA delivery to pro-atherogenic endothelium in vivo. *Scientific Reports*, **2016**, 6, 25636	4.9	14
156	Identification of side- and shear-dependent microRNAs regulating porcine aortic valve pathogenesis. *Scientific Reports*, **2016**, 6, 25397	4.9	31
155	Mechanosensitive PPAP2B Regulates Endothelial Responses to Atherorelevant Hemodynamic Forces. *Circulation Research*, **2015**, 117, e41-e53	15.7	58

154	Identification of Candidate MicroRNA as Pathological Markers of Pediatric Heart Transplant Rejection. *Journal of Heart and Lung Transplantation*, **2015**, 34, S162	5.8	2
153	The role of epigenetics in the endothelial cell shear stress response and atherosclerosis. *International Journal of Biochemistry and Cell Biology*, **2015**, 67, 167-76	5.6	45
152	Flow-Dependent Epigenetic DNA Methylation in Endothelial Gene Expression and Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 1562-9	9.4	62
151	The NADPH oxidase Nox4 has anti-atherosclerotic functions. *European Heart Journal*, **2015**, 36, 3447-56	9.5	112
150	Multifunctional Nanoparticles Facilitate Molecular Targeting and miRNA Delivery to Inhibit Atherosclerosis in ApoE(-/-) Mice. *ACS Nano*, **2015**, 9, 8885-97	16.7	109
149	Disturbed flow induces systemic changes in metabolites in mouse plasma: a metabolomics study using ApoE?/? mice with partial carotid ligation. *American Journal of Physiology - Regulatory Integrative and Comparative Physiology*, **2015**, 308, R62-72	3.2	35
148	Novel Animal Models of Atherosclerosis. *Biomedical Engineering Letters*, **2015**, 5, 181-187	3.6	2
147	Vascular Proteomics Reveal Novel Proteins Involved in SMC Phenotypic Change: OLR1 as a SMC Receptor Regulating Proliferation and Inflammatory Response. *PLoS ONE*, **2015**, 10, e0133845	3.7	5
146	Flow-dependent expression of ectonucleotide tri(di)phosphohydrolase-1 and suppression of atherosclerosis. *Journal of Clinical Investigation*, **2015**, 125, 3027-36	15.9	38
145	Micro-CT Technique Is Well Suited for Documentation of Remodeling Processes in Murine Carotid Arteries. *PLoS ONE*, **2015**, 10, e0130374	3.7	11
144	Fluid Mechanics, Arterial Disease, and Gene Expression. *Annual Review of Fluid Mechanics*, **2014**, 46, 591-614	21	107
143	Development of immortalized mouse aortic endothelial cell lines. *Vascular Cell*, **2014**, 6, 7	1	26
142	Role of flow-sensitive microRNAs in endothelial dysfunction and atherosclerosis: mechanosensitive athero-miRs. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2206-16	9.4	194
141	Biomechanical factors in atherosclerosis: mechanisms and clinical implications. *European Heart Journal*, **2014**, 35, 3013-20, 3020a-3020d	9.5	250
140	Flow-dependent regulation of genome-wide mRNA and microRNA expression in endothelial cells in vivo. *Scientific Data*, **2014**, 1, 140039	8.2	19
139	Prevention of abdominal aortic aneurysm by anti-microRNA-712 or anti-microRNA-205 in angiotensin II-infused mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 1412-21	9.4	85
138	The Role of Mechanical Stimulation in Recovery of Bone Loss-High versus Low Magnitude and Frequency of Force. *Life*, **2014**, 4, 117-30	3	32
137	Flow-dependent epigenetic DNA methylation regulates endothelial gene expression and atherosclerosis. *Journal of Clinical Investigation*, **2014**, 124, 3187-99	15.9	194

136	Disturbed flow enhances inflammatory signaling and atherogenesis by increasing thioredoxin-1 level in endothelial cell nuclei. *PLoS ONE*, **2014**, 9, e108346	3.7	21
135	Aortic valve: mechanical environment and mechanobiology. *Annals of Biomedical Engineering*, **2013**, 41, 1331-46	4.7	71
134	The atypical mechanosensitive microRNA-712 derived from pre-ribosomal RNA induces endothelial inflammation and atherosclerosis. *Nature Communications*, **2013**, 4, 3000	17.4	162
133	Hemodynamic Features in Stenosed Coronary Arteries: CFD Analysis Based on Histological Images. *Journal of Applied Mathematics*, **2013**, 2013, 1-11	1.1	6
132	The bone morphogenic protein inhibitor, noggin, reduces glycemia and vascular inflammation in db/db mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 305, H747-55	5.2	22
131	The role of the vascular dendritic cell network in atherosclerosis. *American Journal of Physiology - Cell Physiology*, **2013**, 305, C1-21	5.4	27
130	Laminar shear stress upregulates endothelial Ca□+-activated K+ channels KCa2.3 and KCa3.1 via a Ca□+/calmodulin-dependent protein kinase kinase/Akt/p300 cascade. *American Journal of Physiology - Heart and Circulatory Physiology*, **2013**, 305, H484-93	5.2	22
129	Anti-inflammatory and antiatherogenic role of BMP receptor II in endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1350-9	9.4	68
128	Vascular injury involves the overoxidation of peroxiredoxin type II and is recovered by the peroxiredoxin activity mimetic that induces reendothelialization. *Circulation*, **2013**, 128, 834-44	16.7	23
127	Strain magnitude-dependent calcific marker expression in valvular and vascular cells. *Cells Tissues Organs*, **2013**, 197, 372-83	2.1	14
126	Dynamic immune cell accumulation during flow-induced atherogenesis in mouse carotid artery: an expanded flow cytometry method. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 623-32	9.4	31
125	Piperlongumine inhibits atherosclerotic plaque formation and vascular smooth muscle cell proliferation by suppressing PDGF receptor signaling. *Biochemical and Biophysical Research Communications*, **2012**, 427, 349-54	3.4	61
124	8-Hydroxy-2-deoxyguanosine prevents plaque formation and inhibits vascular smooth muscle cell activation through Rac1 inactivation. *Free Radical Biology and Medicine*, **2012**, 53, 109-21	7.8	21
123	Angiotensin II induces DNA damage via AT1 receptor and NADPH oxidase isoform Nox4. *Mutagenesis*, **2012**, 27, 673-81	2.8	39
122	Shear- and Side-dependent microRNAs and Messenger RNAs in Aortic Valvular Endothelium **2012**,		3
121	Identification of target proteins of shear stress-related miRNAs in endothelial cells. *FASEB Journal*, **2012**, 26, 776.6	0.9	1
120	Detection of low levels of nitric oxide using an electrochemical sensor. *Methods in Molecular Biology*, **2011**, 704, 81-9	1.4	6
119	Serum BMP-4 levels in relation to arterial stiffness and carotid atherosclerosis in patients with Type 2 diabetes. *Biomarkers in Medicine*, **2011**, 5, 827-35	2.3	14

118	Animal, in vitro, and ex vivo models of flow-dependent atherosclerosis: role of oxidative stress. *Antioxidants and Redox Signaling*, **2011**, 15, 1433-48	8.4	53
117	Preferential activation of SMAD1/5/8 on the fibrosa endothelium in calcified human aortic valves--association with low BMP antagonists and SMAD6. *PLoS ONE*, **2011**, 6, e20969	3.7	60
116	The effects of combined cyclic stretch and pressure on the aortic valve interstitial cell phenotype. *Annals of Biomedical Engineering*, **2011**, 39, 1654-67	4.7	42
115	Inorganic phosphate induces mammalian growth plate chondrocyte apoptosis in a mitochondrial pathway involving nitric oxide and JNK MAP kinase. *Calcified Tissue International*, **2011**, 88, 96-108	3.9	15
114	Differences in valvular and vascular cell responses to strain in osteogenic media. *Biomaterials*, **2011**, 32, 2885-93	15.6	21
113	Tetrahydrobiopterin deficiency and nitric oxide synthase uncoupling contribute to atherosclerosis induced by disturbed flow. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1547-54	9.4	41
112	Disturbed flow: p53 SUMOylation in the turnover of endothelial cells. *Journal of Cell Biology*, **2011**, 193, 805-7	7.3	11
111	Discovery of shear- and side-specific mRNAs and miRNAs in human aortic valvular endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H856-67	5.2	83
110	MicroRNA-663 upregulated by oscillatory shear stress plays a role in inflammatory response of endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1762-9	5.2	165
109	Peroxiredoxin 2 deficiency exacerbates atherosclerosis in apolipoprotein E-deficient mice. *Circulation Research*, **2011**, 109, 739-49	15.7	90
108	Angiotensin type I receptor blockade in conjunction with enhanced Akt activation restores coronary collateral growth in the metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 300, H1938-49	5.2	13
107	Shear stress and plaque development. *Expert Review of Cardiovascular Therapy*, **2010**, 8, 545-56	2.5	99
106	X-linked inhibitor of apoptosis protein controls alpha5-integrin-mediated cell adhesion and migration. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 299, H300-9	5.2	22
105	Endothelial metallothionein expression and intracellular free zinc levels are regulated by shear stress. *American Journal of Physiology - Cell Physiology*, **2010**, 299, C1461-7	5.4	9
104	Intimal cushions and endothelial nuclear elongation around mouse aortic branches and their spatial correspondence with patterns of lipid deposition. *American Journal of Physiology - Heart and Circulatory Physiology*, **2010**, 298, H536-44	5.2	8
103	GTP cyclohydrolase I phosphorylation and interaction with GTP cyclohydrolase feedback regulatory protein provide novel regulation of endothelial tetrahydrobiopterin and nitric oxide. *Circulation Research*, **2010**, 106, 328-36	15.7	45
102	HuR regulates the expression of stress-sensitive genes and mediates inflammatory response in human umbilical vein endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 6858-63	11.5	67
101	Elevated cyclic stretch induces aortic valve calcification in a bone morphogenic protein-dependent manner. *American Journal of Pathology*, **2010**, 177, 49-57	5.8	124

100	Discovery of novel mechanosensitive genes in vivo using mouse carotid artery endothelium exposed to disturbed flow. *Blood*, **2010**, 116, e66-73	2.2	120
99	A model of disturbed flow-induced atherosclerosis in mouse carotid artery by partial ligation and a simple method of RNA isolation from carotid endothelium. *Journal of Visualized Experiments*, **2010**,	1.6	42
98	Systems analysis of the role of bone morphogenic protein 4 in endothelial inflammation. *Annals of Biomedical Engineering*, **2010**, 38, 291-307	4.7	8
97	Hemodynamics and Mechanobiology of Endothelium **2010**,		3
96	Laminar Shear Stress Up-regulates Endothelial CD73 Expression by Activating Calmodulin-dependent Kinase Kinase. *FASEB Journal*, **2010**, 24, 784.16	0.9	0
95	NO negatively regulates cell surface expression of CD73 in sheared endothelial cells. *FASEB Journal* , **2010**, 24, 784.14	0.9	
94	Oral Tetrahydrobiopterin Treatment Prevents Accelerated Atherosclerosis Caused by Oscillatory Shear Stress. *FASEB Journal*, **2010**, 24, lb565	0.9	
93	Expression of CYP1A1 and CYP1B1 in human endothelial cells: regulation by fluid shear stress. *Cardiovascular Research*, **2009**, 81, 669-77	9.9	81
92	Elevated cyclic stretch alters matrix remodeling in aortic valve cusps: implications for degenerative aortic valve disease. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H756-64	5.2	159
91	Redox-sensitive Akt and Src regulate coronary collateral growth in metabolic syndrome. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1811-21	5.2	19
90	Partial carotid ligation is a model of acutely induced disturbed flow, leading to rapid endothelial dysfunction and atherosclerosis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 297, H1535-43	5.2	313
89	Altered shear stress stimulates upregulation of endothelial VCAM-1 and ICAM-1 in a BMP-4- and TGF-beta1-dependent pathway. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 254-60	9.4	182
88	Low magnitude and high frequency mechanical loading prevents decreased bone formation responses of 2T3 preosteoblasts. *Journal of Cellular Biochemistry*, **2009**, 106, 306-16	4.7	38
87	Design of an ex vivo culture system to investigate the effects of shear stress on cardiovascular tissue. *Journal of Biomechanical Engineering*, **2008**, 130, 035001	2.1	52
86	Laminar shear stress up-regulates peroxiredoxins (PRX) in endothelial cells: PRX 1 as a mechanosensitive antioxidant. *Journal of Biological Chemistry*, **2008**, 283, 1622-1627	5.4	71
85	Target accessibility and signal specificity in live-cell detection of BMP-4 mRNA using molecular beacons. *Nucleic Acids Research*, **2008**, 36, e30	20.1	66
84	Laminar shear stress inhibits lipid peroxidation induced by high glucose plus arachidonic acid in endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H1966-73	5.2	18
83	X-linked inhibitor of apoptosis protein is an important regulator of vascular endothelial growth factor-dependent bovine aortic endothelial cell survival. *Circulation Research*, **2008**, 102, 896-904	15.7	30

82	Angiopoietin-2 stimulates blood flow recovery after femoral artery occlusion by inducing inflammation and arteriogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1989-95	9.4	49
81	Differential proinflammatory and prooxidant effects of bone morphogenetic protein-4 in coronary and pulmonary arterial endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2008**, 295, H569-77	5.2	59
80	Down-regulation of BMP-4 Expression in Coronary Arterial Endothelial Cells: Role of Shear Stress and the cAMP/PKA Pathway. *FASEB Journal*, **2008**, 22, 1145.1	0.9	
79	Mechanical loading prevents decreased bone formation responses of osteoblasts by a bone morphogenic protein-dependent mechanism. *FASEB Journal*, **2008**, 22, 774.3	0.9	
78	Peroxiredoxin 1 is Upregulated by Laminar Shear Stress via Nrf2 Transcription Factor. *FASEB Journal*, **2008**, 22, 964.5	0.9	
77	Angiopoietin-2 inhibition impairs blood flow recovery during hindlimb ischemia. *FASEB Journal*, **2008**, 22, 746.5	0.9	
76	Expression of cathepsin K is regulated by shear stress in cultured endothelial cells and is increased in endothelium in human atherosclerosis. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H1479-86	5.2	89
75	Identification of mechanosensitive genes in osteoblasts by comparative microarray studies using the rotating wall vessel and the random positioning machine. *Journal of Cellular Biochemistry*, **2007**, 101, 587-99	4.7	73
74	Caveolin-1 knockout mice have increased bone size and stiffness. *Journal of Bone and Mineral Research*, **2007**, 22, 1408-18	6.3	64
73	Reactive oxygen species-selective regulation of aortic inflammatory gene expression in Type 2 diabetes. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 292, H2073-82	5.2	103
72	NFKB1 promoter variation implicates shear-induced NOS3 gene expression and endothelial function in prehypertensives and stage I hypertensives. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H2320-7	5.2	33
71	Emerging role of IGF-1R in stretch-induced neointimal hyperplasia in venous grafts. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1679-81	9.4	5
70	Bone morphogenic protein antagonists are coexpressed with bone morphogenic protein 4 in endothelial cells exposed to unstable flow in vitro in mouse aortas and in human coronary arteries: role of bone morphogenic protein antagonists in inflammation and atherosclerosis. *Circulation*, **2007**, 116, 1258-66	16.7	107
69	Laminar shear inhibits tubule formation and migration of endothelial cells by an angiopoietin-2 dependent mechanism. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 2150-6	9.4	65
68	Downregulation of bone morphogenetic protein 4 expression in coronary arterial endothelial cells: role of shear stress and the cAMP/protein kinase A pathway. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 776-82	9.4	45
67	Reversible glutathiolation of caspase-3 by glutaredoxin as a novel redox signaling mechanism in tumor necrosis factor-alpha-induced cell death. *Circulation Research*, **2007**, 100, 152-4	15.7	23
66	An improved method to measure nitrate/nitrite with an NO-selective electrochemical sensor. *Nitric Oxide - Biology and Chemistry*, **2007**, 16, 306-12	5	26
65	Coordinated regulation of endothelial nitric oxide synthase activity by phosphorylation and subcellular localization. *Free Radical Biology and Medicine*, **2006**, 41, 144-53	7.8	51

64	Early determinants of H2O2-induced endothelial dysfunction. *Free Radical Biology and Medicine*, **2006**, 41, 810-7	7.8	49
63	Laminar shear stress inhibits cathepsin L activity in endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 1784-90	9.4	61
62	Transcriptional profiles of valvular and vascular endothelial cells reveal phenotypic differences: influence of shear stress. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 69-77	9.4	151
61	Bone morphogenic protein-4 induces hypertension in mice: role of noggin, vascular NADPH oxidases, and impaired vasorelaxation. *Circulation*, **2006**, 113, 2818-25	16.7	107
60	Embryonic stem cell-derived endothelial cells may lack complete functional maturation in vitro. *Journal of Vascular Research*, **2006**, 43, 411-21	1.9	44
59	Mechanical inhibition of RANKL expression is regulated by H-Ras-GTPase. *Journal of Biological Chemistry*, **2006**, 281, 1412-8	5.4	25
58	Role of NADPH oxidases in disturbed flow- and BMP4- induced inflammation and atherosclerosis. *Antioxidants and Redox Signaling*, **2006**, 8, 1609-19	8.4	78
57	Caveolin-1 is transiently dephosphorylated by shear stress-activated protein tyrosine phosphatase mu. *Biochemical and Biophysical Research Communications*, **2006**, 339, 737-41	3.4	15
56	Ascorbic acid synthesis due to L-gulono-1,4-lactone oxidase expression enhances NO production in endothelial cells. *Biochemical and Biophysical Research Communications*, **2006**, 345, 1657-62	3.4	30
55	Plasma membrane requirements for 1alpha,25(OH)2D3 dependent PKC signaling in chondrocytes and osteoblasts. *Steroids*, **2006**, 71, 286-90	2.8	43
54	Regulation of growth plate chondrocytes by 1,25-dihydroxyvitamin D3 requires caveolae and caveolin-1. *Journal of Bone and Mineral Research*, **2006**, 21, 1637-47	6.3	36
53	An ex vivo study of the biological properties of porcine aortic valves in response to circumferential cyclic stretch. *Annals of Biomedical Engineering*, **2006**, 34, 1655-65	4.7	101
52	Peroxiredoxins as Mechanosensitive Antioxidants in a Subcellular-Specific Manner. *FASEB Journal*, **2006**, 20, A1453	0.9	
51	Oscillatory shear stress promotes endothelial cell migration and angiogenesis. *FASEB Journal*, **2006**, 20, A289	0.9	1
50	Cyclic pressure and shear stress regulate matrix metalloproteinases and cathepsin activity in porcine aortic valves. *Journal of Heart Valve Disease*, **2006**, 15, 622-9		39
49	Simulated microgravity using the Random Positioning Machine inhibits differentiation and alters gene expression profiles of 2T3 preosteoblasts. *American Journal of Physiology - Cell Physiology*, **2005**, 288, C1211-21	5.4	100
48	Bone morphogenic protein 4 produced in endothelial cells by oscillatory shear stress induces monocyte adhesion by stimulating reactive oxygen species production from a nox1-based NADPH oxidase. *Circulation Research*, **2004**, 95, 773-9	15.7	316
47	Bovine caveolin-2 cloning and effects of shear stress on its localization in bovine aortic endothelial cells. *Endothelium: Journal of Endothelial Cell Research*, **2004**, 11, 189-98		1

46	Fibronectin-dependent cell adhesion is required for shear-dependent ERK activation. *Korean Journal of Biological Sciences*, **2004**, 8, 27-32		1
45	Oscillatory shear stress stimulates endothelial production of O2- from p47phox-dependent NAD(P)H oxidases, leading to monocyte adhesion. *Journal of Biological Chemistry*, **2003**, 278, 47291-8	5.4	232
44	A role for PYK2 in ANG II-dependent regulation of the PHAS-1-eIF4E complex by multiple signaling cascades in vascular smooth muscle. *American Journal of Physiology - Cell Physiology*, **2003**, 285, C1437-44	5.4	15
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