Jeng-Jiann Chiu

List of Publications by Year
in descending order

64 papers	5,702 citations	101543 36 h-index	133252 59 g-index
64 all docs	64 docs citations	64 times ranked	8772 citing authors

#	Article	IF	Citations
1	Reduction in MicroRNA-4488 Expression Induces NFÎºB Translocation in Venous Endothelial Cells Under Arterial Flow. Cardiovascular Drugs and Therapy, 2021, 35, 61-71.	2.6	4
2	Mechanoresponsive Smad5 Enhances MiR-487a Processing to Promote Vascular Endothelial Proliferation in Response to Disturbed Flow. Frontiers in Cell and Developmental Biology, 2021, 9, 647714.	3.7	5
3	Punicalagin Attenuates Disturbed Flow-Induced Vascular Dysfunction by Inhibiting Force-Specific Activation of Smad1/5. Frontiers in Cell and Developmental Biology, 2021, 9, 697539.	3.7	1
4	Low Levels of MicroRNA-10a in Cardiovascular Endothelium and Blood Serum Are Related to Human Atherosclerotic Disease. Cardiology Research and Practice, 2021, 2021, 1-7.	1.1	6
5	Mechanical Regulation of Epigenetic Modifications in Vascular Biology and Pathobiology. Cardiac and Vascular Biology, 2021, , 241-276.	0.2	1
6	Endothelial Yin Yang 1 Phosphorylation at S118 Induces Atherosclerosis Under Flow. Circulation Research, 2021, 129, 1158-1174.	4.5	10
7	Focal TLR4 activation mediates disturbed flow-induced endothelial inflammation. Cardiovascular Research, 2020, 116, 226-236.	3.8	50
8	Inhibition of <i>miRâ€21</i> alleviated cardiac perivascular fibrosis via repressing EndMT in T1DM. Journal of Cellular and Molecular Medicine, 2020, 24, 910-920.	3.6	43
9	Atherosclerosis and flow: roles of epigenetic modulation in vascular endothelium. Journal of Biomedical Science, 2019, 26, 56.	7.0	86
10	Hemodynamics-Based Strategy of Using Retinoic Acid Receptor and Retinoid X Receptor Agonists to Induce MicroRNA-10a and Inhibit Atherosclerotic Lesion. Methods in Molecular Biology, 2019, 2019, 143-169.	0.9	3
11	Induction of microRNA-10a using retinoic acid receptor-Î± and retinoid x receptor-Î± agonists inhibits atherosclerotic lesion formation. Atherosclerosis, 2018, 271, 36-44.	0.8	26
12	Three-dimensional forces exerted by leukocytes and vascular endothelial cells dynamically facilitate diapedesis. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 133-138.	7.1	42
13	Matrix stiffness determines the phenotype of vascular smooth muscle cell inÂvitro and inÂvivo: Role of DNA methyltransferase 1. Biomaterials, 2018, 155, 203-216.	11.4	88
14	MicroRNA-21 and Venous Neointimal Hyperplasia of Dialysis Vascular Access. Clinical Journal of the American Society of Nephrology: CJASN, 2018, 13, 1712-1720.	4.5	9
15	Differential regulations of fibronectin and laminin in Smad2 activation in vascular endothelial cells in response to disturbed flow. Journal of Biomedical Science, 2018, 25, 1.	7.0	115
16	MicroRNAâ€146a Deficiency Promotes Atherosclerosis by Dysregulating Cholesterol Homeostasis in Macrophages. FASEB Journal, 2018, 32, 752.6.	0.5	0
17	MicroRNA-10a is crucial for endothelial response to different flow patterns via interaction of retinoid acid receptors and histone deacetylases. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2072-2077.	7.1	51
18	Abstract 21097: Three-Dimensional Traction Stresses Facilitate Leukocyte Diapedesis. Circulation, 2017, 136, .	1.6	0

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19	Integrin-YAP/TAZ-JNK cascade mediates atheroprotective effect of unidirectional shear flow. Nature, 2016, 540, 579-582.	27.8	456
20	Endothelial progenitors promote hepatocarcinoma intrahepatic metastasis through monocyte chemotactic protein-1 induction of microRNA-21. Gut, 2015, 64, 1132-1147.	12.1	45
21	MicroRNA Mediation of Endothelial Inflammatory Response to Smooth Muscle Cells and Its Inhibition by Atheroprotective Shear Stress. Circulation Research, 2015, 116, 1157-1169.	4.5	57
22	Protein kinase C-Î´ and -Î² coordinate flow-induced directionality and deformation of migratory human blood T-lymphocytes. Journal of Molecular Cell Biology, 2014, 6, 458-472.	3.3	14
23	Regulation of fibrillar collagen-mediated smooth muscle cell proliferation in response to chemical stimuli by telomere reverse transcriptase through c-Myc. Biomaterials, 2014, 35, 3829-3839.	11.4	5
24	Mechanical regulation of cancer cell apoptosis and autophagy: Roles of bone morphogenetic protein receptor, Smad1/5, and p38 MAPK. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 3124-3133.	4.1	90
25	Activation of PPAR-Î± induces cell cycle arrest and inhibits transforming growth factor-Î²1 induction of smooth muscle cell phenotype in 10T1/2 mesenchymal cells. Cellular Signalling, 2013, 25, 1252-1263.	3.6	12
26	Regulation of Vascular Smooth Muscle Cell Turnover by Endothelial Cellâ€“Secreted MicroRNA-126. Circulation Research, 2013, 113, 40-51.	4.5	223
27	Mechanical regulation of epigenetics in vascular biology and pathobiology. Journal of Cellular and Molecular Medicine, 2013, 17, 437-448.	3.6	75
28	Role of histone deacetylases in transcription factor regulation and cell cycle modulation in endothelial cells in response to disturbed flow. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 1967-1972.	7.1	130
29	Force-specific activation of Smad1/5 regulates vascular endothelial cell cycle progression in response to disturbed flow. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 7770-7775.	7.1	95
30	Î²2-Integrin and Notch-1 differentially regulate CD34+CD31+ cell plasticity in vascular niches. Cardiovascular Research, 2012, 96, 296-307.	3.8	6
31	Roles of microRNAs in atherosclerosis and restenosis. Journal of Biomedical Science, 2012, 19, 79.	7.0	66
32	Modulation of chemotactic and pro-inflammatory activities of endothelial progenitor cells by hepatocellular carcinoma. Cellular Signalling, 2012, 24, 779-793.	3.6	25
33	Convergence of physical and chemical signaling in the modulation of vascular smooth muscle cell cycle and proliferation by fibrillar collagen-regulated P66Shc. Biomaterials, 2012, 33, 6728-6738.	11.4	7
34	Effects of Disturbed Flow on Vascular Endothelium: Pathophysiological Basis and Clinical Perspectives. Physiological Reviews, 2011, 91, 327-387.	28.8	1,661
35	Epigenetic Regulation of Vascular Endothelial Biology/Pathobiology and Response to Fluid Shear Stress. Cellular and Molecular Bioengineering, 2011, 4, 560-578.	2.1	4
36	MicroRNA-21 targets peroxisome proliferators-activated receptor-Î± in an autoregulatory loop to modulate flow-induced endothelial inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 10355-10360.	7.1	303

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37	Oscillatory Flow-induced Proliferation of Osteoblast-like Cells Is Mediated by Î±vÎ²3 and Î²1 Integrins through Synergistic Interactions of Focal Adhesion Kinase and Shc with Phosphatidylinositol 3-Kinase and the Akt/mTOR/p70S6K Pathway. Journal of Biological Chemistry, 2010, 285, 30-42.	3.4	82
38	Cobra CRISP Functions as an Inflammatory Modulator via a Novel Zn2+- and Heparan Sulfate-dependent Transcriptional Regulation of Endothelial Cell Adhesion Molecules. Journal of Biological Chemistry, 2010, 285, 37872-37883.	3.4	77
39	BMP-4 Induction of Arrest and Differentiation of Osteoblast-Like Cells via p21^{CIP1}and p27^{KIP1}Regulation. Molecular Endocrinology, 2009, 23, 1827-1838.	3.7	59
40	<i>Focal adhesion kinase phosphorylation in flow-activation of endothelial NF-ÎºB</i>. Focus on â€œFocal adhesion kinase modulates activation of NF-ÎºB by flow in endothelial cellsâ€ American Journal of Physiology - Cell Physiology, 2009, 297, C800-C801.	4.6	6
41	Shear Stress Induces Synthetic-to-Contractile Phenotypic Modulation in Smooth Muscle Cells via Peroxisome Proliferator-Activated Receptor Î±/Î´ Activations by Prostacyclin Released by Sheared Endothelial Cells. Circulation Research, 2009, 105, 471-480.	4.5	86
42	Vascular endothelial responses to altered shear stress: Pathologic implications for atherosclerosis. Annals of Medicine, 2009, 41, 19-28.	3.8	194
43	Synergism of biochemical and mechanical stimuli in the differentiation of human placenta-derived multipotent cells into endothelial cells. Journal of Biomechanics, 2008, 41, 813-821.	2.1	83
44	Integrin-Mediated Expression of Bone Formation-Related Genes in Osteoblast-Like Cells in Response to Fluid Shear Stress: Roles of Extracellular Matrix, Shc, and Mitogen-Activated Protein Kinase. Journal of Bone and Mineral Research, 2008, 23, 1140-1149.	2.8	71
45	Tumor cell cycle arrest induced by shear stress: Roles of integrins and Smad. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 3927-3932.	7.1	173
46	DESIGN AND CONSTRUCTION OF A HEMODYNAMIC SIMULATOR FOR STUDYING VASCULAR ENDOTHELIAL RESPONSES TO HEMODYNAMIC FORCES. Biomedical Engineering - Applications, Basis and Communications, 2008, 20, 95-105.	0.6	1
47	Vascular Endothelial Responses to Disturbed Flow: Pathologic Implications for Atherosclerosis. , 2008, , 469-496.		2
48	Novel Function of Cysteineâ€rich Secretory Protein from Naja Atra Venom:CRISPâ€a induces proâ€inflammatory responses of vascular endothelial cells. FASEB Journal, 2008, 22, 1219.1.	0.5	1
49	The Mechanism of Phenotypic Modulation of Vascular Smooth Muscle Cells: Role of extracellular matrix and PDGFâ€BB/ILâ€1b. FASEB Journal, 2008, 22, 965.4.	0.5	0
50	Shear Stress Induces Syntheticâ€toâ€contractile Phenotypic Change of Smooth Muscle Cells via Paracrine Effect of Prostacyclin from Endothelial Cells and the PPARâ€Î±/Î´ Pathways. FASEB Journal, 2008, 22, 1208.7.	0.5	0
51	Mechanisms of induction of endothelial cell E-selectin expression by smooth muscle cells and its inhibition by shear stress. Blood, 2007, 110, 519-528.	1.4	67
52	The inhibition of TNF-Î±-induced E-selectin expression in endothelial cells via the JNK/NF-ÎºB pathways by highly N-acetylated chitooligosaccharides. Biomaterials, 2007, 28, 1355-1366.	11.4	40
53	Neutrophils, lymphocytes, and monocytes exhibit diverse behaviors in transendothelial and subendothelial migrations under coculture with smooth muscle cells in disturbed flow. Blood, 2006, 107, 1933-1942.	1.4	72
54	Leukocyteâ€“Endothelium Interaction: Measurement by Laser Tweezers Force Spectroscopy. Cardiovascular Engineering (Dordrecht, Netherlands), 2006, 6, 111-117.	1.0	6

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55	Phosphatidylinositol 3-kinase/Akt pathway is involved in transforming growth factor-Î²1-induced phenotypic modulation of 10T1/2 cells to smooth muscle cells. Cellular Signalling, 2006, 18, 1270-1278.	3.6	78
56	Synergistic roles of platelet-derived growth factor-BB and interleukin-1Î² in phenotypic modulation of human aortic smooth muscle cells. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2665-2670.	7.1	83
57	Shear stress regulates gene expression in vascular endothelial cells in response to tumor necrosis factor-Î±: a study of the transcription profile with complementary DNA microarray. Journal of Biomedical Science, 2005, 12, 481-502.	7.0	21
58	Shear Stress Inhibits Smooth Muscle Cellâ€"Induced Inflammatory Gene Expression in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2005, 25, 963-969.	2.4	56
59	Shear Stress Increases ICAM-1 and Decreases VCAM-1 and E-selectin Expressions Induced by Tumor Necrosis Factor-Î± in Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2004, 24, 73-79.	2.4	193
60	A model for studying the effect of shear stress on interactions between vascular endothelial cells and smooth muscle cells. Journal of Biomechanics, 2004, 37, 531-539.	2.1	95
61	Analysis of the effect of disturbed flow on monocytic adhesion to endothelial cells. Journal of Biomechanics, 2003, 36, 1883-1895.	2.1	97
62	Shear stress inhibits adhesion molecule expression in vascular endothelial cells induced by coculture with smooth muscle cells. Blood, 2003, 101, 2667-2674.	1.4	148
63	Shear stress attenuates tumor necrosis factor-alpha-induced monocyte chemotactic protein-1 expressions in endothelial cells. Chinese Journal of Physiology, 2002, 45, 169-76.	1.0	3
64	Endothelial exposure to hypoxia inducesEgr-1 expression involving PKC?-mediated Ras/Raf-1/ERK1/2 pathway. Journal of Cellular Physiology, 2001, 188, 304-312.	4.1	94