Kimiko Yamamoto

List of Publications by Citations

45 papers	3,087 citations	27 h-index	55 g-index
57 ext. papers	3,469 ext. citations	6.2 avg, IF	5.14 L-index

#	Paper	IF	Citations
45	Impaired flow-dependent control of vascular tone and remodeling in P2X4-deficient mice. *Nature Medicine*, **2006**, 12, 133-7	50.5	274
44	Vascular mechanobiology: endothelial cell responses to fluid shear stress. *Circulation Journal*, **2009**, 73, 1983-92	2.9	272
43	Fluid shear stress induces differentiation of Flk-1-positive embryonic stem cells into vascular endothelial cells in vitro. *American Journal of Physiology - Heart and Circulatory Physiology*, **2005**, 288, H1915-24	5.2	259
42	Proliferation, differentiation, and tube formation by endothelial progenitor cells in response to shear stress. *Journal of Applied Physiology*, **2003**, 95, 2081-8	3.7	257
41	Fluid shear stress activates Ca(2+) influx into human endothelial cells via P2X4 purinoceptors. *Circulation Research*, **2000**, 87, 385-91	15.7	196
40	Flow-Dependent Endothelial YAP Regulation Contributes to Vessel Maintenance. *Developmental Cell*, **2017**, 40, 523-536.e6	10.2	157
39	P2X(4) receptors mediate ATP-induced calcium influx in human vascular endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 279, H285-92	5.2	151
38	Fluid shear stress induces arterial differentiation of endothelial progenitor cells. *Journal of Applied Physiology*, **2009**, 106, 203-11	3.7	138
37	Flow detection and calcium signalling in vascular endothelial cells. *Cardiovascular Research*, **2013**, 99, 260-8	9.9	136
36	Effects of shear stress and stretch on endothelial function. *Antioxidants and Redox Signaling*, **2011**, 15, 1389-403	8.4	132
35	Endogenously released ATP mediates shear stress-induced Ca2+ influx into pulmonary artery endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H793-803	5.2	124
34	Global analysis of shear stress-responsive genes in vascular endothelial cells. *Journal of Atherosclerosis and Thrombosis*, **2003**, 10, 304-13	4	112
33	Visualization of flow-induced ATP release and triggering of Ca2+ waves at caveolae in vascular endothelial cells. *Journal of Cell Science*, **2011**, 124, 3477-83	5.3	99
32	Cyclic strain induces mouse embryonic stem cell differentiation into vascular smooth muscle cells by activating PDGF receptor beta. *Journal of Applied Physiology*, **2008**, 104, 766-72	3.7	97
31	Involvement of cell surface ATP synthase in flow-induced ATP release by vascular endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2007**, 293, H1646-53	5.2	87
30	Differentiation from embryonic stem cells to vascular wall cells under in vitro pulsatile flow loading. *Journal of Artificial Organs*, **2005**, 8, 110-8	1.8	66
29	Fluid shear stress induces differentiation of circulating phenotype endothelial progenitor cells. *American Journal of Physiology - Cell Physiology*, **2012**, 303, C595-606	5.4	61

28	Endothelial cell and model membranes respond to shear stress by rapidly decreasing the order of their lipid phases. *Journal of Cell Science*, **2013**, 126, 1227-34	5.3	59
27	Differential gene responses in endothelial cells exposed to a combination of shear stress and cyclic stretch. *Journal of Biotechnology*, **2008**, 133, 239-44	3.7	44
26	Differential regulation of urokinase-type plasminogen activator expression by fluid shear stress in human coronary artery endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H2027-34	5.2	44
25	New molecular mechanisms for cardiovascular disease:blood flow sensing mechanism in vascular endothelial cells. *Journal of Pharmacological Sciences*, **2011**, 116, 323-31	3.7	36
24	Shear stress augments mitochondrial ATP generation that triggers ATP release and Ca signaling in vascular endothelial cells. *American Journal of Physiology - Heart and Circulatory Physiology*, **2018**, 315, H1477-H1485	5.2	33
23	Vascular endothelial cell membranes differentiate between stretch and shear stress through transitions in their lipid phases. *American Journal of Physiology - Heart and Circulatory Physiology*, **2015**, 309, H1178-85	5.2	32
22	Sustained expression of MCP-1 by low wall shear stress loading concomitant with turbulent flow on endothelial cells of intracranial aneurysm. *Acta Neuropathologica Communications*, **2016**, 4, 48	7.3	31
21	Sp1-mediated downregulation of P2X4 receptor gene transcription in endothelial cells exposed to shear stress. *American Journal of Physiology - Heart and Circulatory Physiology*, **2001**, 280, H2214-21	5.2	31
20	Phosphorylation of PACSIN2 by protein kinase C triggers the removal of caveolae from the plasma membrane. *Journal of Cell Science*, **2015**, 128, 2766-80	5.3	30
19	Arterial shear stress augments the differentiation of endothelial progenitor cells adhered to VEGF-bound surfaces. *Biochemical and Biophysical Research Communications*, **2012**, 423, 91-7	3.4	29
18	Two Diverse Hemodynamic Forces, a Mechanical Stretch and a High Wall Shear Stress, Determine Intracranial Aneurysm Formation. *Translational Stroke Research*, **2020**, 11, 80-92	7.8	21
17	Emerging Role of Plasma Membranes in Vascular Endothelial Mechanosensing. *Circulation Journal*, **2018**, 82, 2691-2698	2.9	19
16	Shear stress activates mitochondrial oxidative phosphorylation by reducing plasma membrane cholesterol in vascular endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 33660-33667	11.5	14
15	Study on the Sliding Friction of Endothelial Cells Cultured on Hydrogel and the Role of Glycocalyx on Friction Reduction. *Advanced Engineering Materials*, **2010**, 12, B628-B636	3.5	9
14	Hemodynamic Forces, Endothelial Mechanotransduction, and Vascular Diseases. *Magnetic Resonance in Medical Sciences*, **2021**,	2.9	8
13	Extracellular ATP Augments Antigen-Induced Murine Mast Cell Degranulation and Allergic Responses via P2X4 Receptor Activation. *Journal of Immunology*, **2020**, 204, 3077-3085	5.3	7
12	Functional lipidomics of vascular endothelial cells in response to laminar shear stress. *FASEB Journal*, **2021**, 35, e21301	0.9	5
11	Co-Stimulation of Purinergic P2X4 and Prostanoid EP3 Receptors Triggers Synergistic Degranulation in Murine Mast Cells. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	4

10	Differentiation of stem/progenitor cells into vascular cells in response to fluid mechanical forces. *Journal of Biorheology*, **2010**, 24, 1-10	0.3	3
9	Disruption of P2X4 purinoceptor and suppression of the inflammation associated with cerebral aneurysm formation. *Journal of Neurosurgery*, **2019**, 1-13	3.2	3
8	A biomechanically derived minimum work model of the fish gill lamellar system exhibits its exquisite morphological arrangement and perfusate regulation for oxygen uptake from water. *Journal of Biomechanics*, **2019**, 88, 155-163	2.9	0
7	Molecular Mechanisms Underlying Mechanosensing in Vascular Biology **2011**, 21-37		
6	2SH-06 Chemiluminescence imaging of flow-induced ATP release at caveolae in vascular endothelial cells(2SH Star of life shined by frontier microscopies,Symposium,The 50th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2012**, 52, S16-S17	0	
5	Mechanical Stress-induced Differentiation of Embryonic Stem Cells and its Application to Tissue Engineering. *Journal of the Robotics Society of Japan*, **2007**, 25, 215-216	0.1	
4	Mechanical Stress-lnduced Selective Differentiation of Embryonic Stem Cells. *Journal of Life Support Engineering*, **2007**, 19, 104-104	0	
3	Plasma membrane-mediated mechanosensing in vascular endothelial cells. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY74-1	0	
2	8F15 Endothelial mechanotransduction of shear stress and its role in he control of vascular functions. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2012**, 2012.24, _8F15-1_-_8F15-2_	0	
1	Dynamic imaging of flow-induced endothelial cell responses. *Japanese Journal of Thrombosis and Hemostasis*, **2013**, 24, 569-575	0	