William C Sessa

List of Publications by Year in Descending Order

316 papers
42,075 citations
103 h-index
200 g-index
339 ext. papers
45,372 ext. citations
10.3 avg, IF
7.34 L-index

#	Paper	IF	Citations
316	Targeting the vasculature in cardiometabolic disease.. *Journal of Clinical Investigation*, **2022**, 132,	15.9	6
315	Histone Acetyltransferases p300 and CBP Coordinate Distinct Chromatin Remodeling Programs in Vascular Smooth Muscle Plasticity.. *Circulation*, **2022**, 101161CIRCULATIONAHA121057599	16.7	1
314	Pazopanib ameliorates acute lung injuries via inhibition of MAP3K2 and MAP3K3. *Science Translational Medicine*, **2021**, 13,	17.5	2
313	The loss of DHX15 impairs endothelial energy metabolism, lymphatic drainage and tumor metastasis in mice. *Communications Biology*, **2021**, 4, 1192	6.7	0
312	eNOS-induced vascular barrier disruption in retinopathy by c-Src activation and tyrosine phosphorylation of VE-cadherin. *ELife*, **2021**, 10,	8.9	6
311	Progressive myoclonus epilepsies-Residual unsolved cases have marked genetic heterogeneity including dolichol-dependent protein glycosylation pathway genes. *American Journal of Human Genetics*, **2021**, 108, 722-738	11	10
310	Characterization of a Novel Caveolin Modulator That Reduces Vascular Permeability and Ocular Inflammation. *Translational Vision Science and Technology*, **2021**, 10, 21	3.3	1
309	Eruptive xanthoma model reveals endothelial cells internalize and metabolize chylomicrons, leading to extravascular triglyceride accumulation. *Journal of Clinical Investigation*, **2021**, 131,	15.9	5
308	De novo DHDDS variants cause a neurodevelopmental and neurodegenerative disorder with myoclonus. *Brain*, **2021**,	11.2	2
307	Alcohol-induced Hsp90 acetylation is a novel driver of liver sinusoidal endothelial dysfunction and alcohol-related liver disease. *Journal of Hepatology*, **2021**, 75, 377-386	13.4	6
306	Defective Flow-Migration Coupling Causes Arteriovenous Malformations in Hereditary Hemorrhagic Telangiectasia. *Circulation*, **2021**, 144, 805-822	16.7	4
305	Cav-1 (Caveolin-1) Deficiency Increases Autophagy in the Endothelium and Attenuates Vascular Inflammation and Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2020**, 40, 1510-1522	9.4	31
304	Endothelial cell-glucocorticoid receptor interactions and regulation of Wnt signaling. *JCI Insight*, **2020**, 5,	9.9	18
303	Lymphangiogenic therapy prevents cardiac dysfunction by ameliorating inflammation and hypertension. *ELife*, **2020**, 9,	8.9	14
302	The N-glycome regulates the endothelial-to-hematopoietic transition. *Science*, **2020**, 370, 1186-1191	33.3	9
301	A Vectorial, ER-Mitochondria Link to Energy Homeostasis in the Vascular Endothelium. *Cell Metabolism*, **2020**, 32, 150-152	24.6	
300	Structural elucidation of the -prenyltransferase NgBR/DHDDS complex reveals insights in regulation of protein glycosylation. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 20794-20802	11.5	11

299	BMP-9 and LDL crosstalk regulates ALK-1 endocytosis and LDL transcytosis in endothelial cells. *Journal of Biological Chemistry*, **2020**, 295, 18179-18188	5.4	7
298	Caveolae: The FAQs. *Traffic*, **2020**, 21, 181-185	5.7	34
297	Unbiased proteomics identifies plasminogen activator inhibitor-1 as a negative regulator of endothelial nitric oxide synthase. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 9497-9507	11.5	9
296	Shear Stress Attenuates Inward Remodeling in Cultured Mouse Thoracodorsal Arteries in an eNOS-Dependent, but Not Hemodynamic Manner, and Increases Cx37 Expression. *Journal of Vascular Research*, **2019**, 56, 284-295	1.9	1
295	Caveolin-1 Regulates Atherogenesis by Attenuating Low-Density Lipoprotein Transcytosis and Vascular Inflammation Independently of Endothelial Nitric Oxide Synthase Activation. *Circulation*, **2019**, 140, 225-239	16.7	47
294	Thrombospondin-2 regulates extracellular matrix production, LOX levels, and cross-linking via downregulation of miR-29. *Matrix Biology*, **2019**, 82, 71-85	11.4	20
293	Stimulation of Caveolin-1 Signaling Improves Arteriovenous Fistula Patency. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 754-764	9.4	11
292	Endothelial NOS: perspective and recent developments. *British Journal of Pharmacology*, **2019**, 176, 189-196	8.6	60
291	Endothelial Cell Autonomous Role of Akt1: Regulation of Vascular Tone and Ischemia-Induced Arteriogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 870-879	9.4	26
290	CLOCK phosphorylation by AKT regulates its nuclear accumulation and circadian gene expression in peripheral tissues. *Journal of Biological Chemistry*, **2018**, 293, 9126-9136	5.4	33
289	Lacteal junction zippering protects against diet-induced obesity. *Science*, **2018**, 361, 599-603	33.3	85
288	Caveolin-1 regulates lipid droplet metabolism in endothelial cells via autocrine prostacyclin-stimulated, cAMP-mediated lipolysis. *Journal of Biological Chemistry*, **2018**, 293, 973-983	5.4	33
287	HIF-1α represses the expression of the angiogenesis inhibitor thrombospondin-2. *Matrix Biology*, **2018**, 65, 45-58	11.4	20
286	Endothelial Transcytosis of Lipoproteins in Atherosclerosis. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 130	5.4	47
285	SMAD4 Prevents Flow Induced Arteriovenous Malformations by Inhibiting Casein Kinase 2. *Circulation*, **2018**, 138, 2379-2394	16.7	42
284	Lipid Droplet Biogenesis and Function in the Endothelium. *Circulation Research*, **2017**, 120, 1289-1297	15.7	61
283	Mast cell-derived prostaglandin D attenuates anaphylactic reactions in mice. *Journal of Allergy and Clinical Immunology*, **2017**, 140, 630-632.e9	11.5	16
282	Akt1 Controls the Timing and Amplitude of Vascular Circadian Gene Expression. *Journal of Biological Rhythms*, **2017**, 32, 212-221	3.2	5

281	Contemporary Approaches to Modulating the Nitric Oxide-cGMP Pathway in Cardiovascular Disease. *Circulation Research*, **2017**, 120, 1174-1182	15.7	45
280	A conserved C-terminal RG motif in the NgBR subunit of -prenyltransferase is critical for prenyltransferase activity. *Journal of Biological Chemistry*, **2017**, 292, 17351-17361	5.4	27
279	Critical role of caveolin-1 in ocular neovascularization and multitargeted antiangiogenic effects of cavtratin via JNK. *Proceedings of the National Academy of Sciences of the United States of America*, **2017**, 114, 10737-10742	11.5	24
278	Long-Chain Polyprenols Promote Spore Wall Formation in. *Genetics*, **2017**, 207, 1371-1386	4	10
277	Eph-B4 regulates adaptive venous remodeling to improve arteriovenous fistula patency. *Scientific Reports*, **2017**, 7, 15386	4.9	24
276	Opposing Actions of AKT (Protein Kinase B) Isoforms in Vascular Smooth Muscle Injury and Therapeutic Response. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2017**, 37, 2311-2321	9.4	14
275	Genome-wide RNAi screen reveals ALK1 mediates LDL uptake and transcytosis in endothelial cells. *Nature Communications*, **2016**, 7, 13516	17.4	73
274	NgBR is essential for endothelial cell glycosylation and vascular development. *EMBO Reports*, **2016**, 17, 167-77	6.5	23
273	Smooth Muscle Hypoxia-Inducible Factor 1Links Intravascular Pressure and Atherosclerosis--Brief Report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 442-5	9.4	21
272	The Protein Acyl Transferase ZDHHC21 Modulates Adrenergic Receptor Function and Regulates Hemodynamics. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 370-9	9.4	14
271	Uncoupling Caveolae From Intracellular Signaling In Vivo. *Circulation Research*, **2016**, 118, 48-55	15.7	19
270	VEGF-Induced Expression of miR-17-92 Cluster in Endothelial Cells Is Mediated by ERK/ELK1 Activation and Regulates Angiogenesis. *Circulation Research*, **2016**, 118, 38-47	15.7	112
269	PI3 kinase inhibition improves vascular malformations in mouse models of hereditary haemorrhagic telangiectasia. *Nature Communications*, **2016**, 7, 13650	17.4	92
268	Chronic miR-29 antagonism promotes favorable plaque remodeling in atherosclerotic mice. *EMBO Molecular Medicine*, **2016**, 8, 643-53	12	46
267	cis-Prenyltransferase: New Insights into Protein Glycosylation, Rubber Synthesis, and Human Diseases. *Journal of Biological Chemistry*, **2016**, 291, 18582-90	5.4	43
266	Up-regulation of thrombospondin-2 in Akt1-null mice contributes to compromised tissue repair due to abnormalities in fibroblast function. *Journal of Biological Chemistry*, **2015**, 290, 409-22	5.4	12
265	A randomized trial to assess the pharmacodynamics and pharmacokinetics of a single dose of an extended-release aspirin formulation. *Postgraduate Medicine*, **2015**, 127, 573-80	3.7	16
264	Phosphorylation of GATA-6 is required for vascular smooth muscle cell differentiation after mTORC1 inhibition. *Science Signaling*, **2015**, 8, ra44	8.8	27

263	Genetic Evidence Supports a Major Role for Akt1 in VSMCs During Atherogenesis. *Circulation Research*, **2015**, 116, 1744-52	15.7	27
262	Endothelial glucocorticoid receptor suppresses atherogenesis--brief report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 779-782	9.4	22
261	Endothelial miR-17~92 cluster negatively regulates arteriogenesis via miRNA-19 repression of WNT signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 12812-7	11.5	51
260	Stromal cell-derived factor 2 is critical for Hsp90-dependent eNOS activation. *Science Signaling*, **2015**, 8, ra81	8.8	13
259	Hematopoietic Akt2 deficiency attenuates the progression of atherosclerosis. *FASEB Journal*, **2015**, 29, 597-610	0.9	27
258	eNOS-derived nitric oxide regulates endothelial barrier function through VE-cadherin and Rho GTPases. *Journal of Cell Science*, **2014**, 127, 2120-2120	5.3	3
257	Reticulon 4 is necessary for endoplasmic reticulum tubulation, STIM1-Orai1 coupling, and store-operated calcium entry. *Journal of Biological Chemistry*, **2014**, 289, 9380-95	5.4	41
256	Angiopoietin-2 secretion by endothelial cell exosomes: regulation by the phosphatidylinositol 3-kinase (PI3K)/Akt/endothelial nitric oxide synthase (eNOS) and syndecan-4/syntenin pathways. *Journal of Biological Chemistry*, **2014**, 289, 510-9	5.4	61
255	Mutation of Nogo-B receptor, a subunit of cis-prenyltransferase, causes a congenital disorder of glycosylation. *Cell Metabolism*, **2014**, 20, 448-57	24.6	72
254	Endothelial Akt1 mediates angiogenesis by phosphorylating multiple angiogenic substrates. *Proceedings of the National Academy of Sciences of the United States of America*, **2014**, 111, 12865-70	11.5	91
253	Dynamin 2 regulation of integrin endocytosis, but not VEGF signaling, is crucial for developmental angiogenesis. *Development (Cambridge)*, **2014**, 141, 1465-72	6.6	34
252	Ceramide-activated phosphatase mediates fatty acid-induced endothelial VEGF resistance and impaired angiogenesis. *American Journal of Pathology*, **2014**, 184, 1562-76	5.8	33
251	Inflammation and the blood microvascular system. *Cold Spring Harbor Perspectives in Biology*, **2014**, 7, a016345	10.2	134
250	Loss of the endothelial glucocorticoid receptor prevents the therapeutic protection afforded by dexamethasone after LPS. *PLoS ONE*, **2014**, 9, e108126	3.7	17
249	Dynamin 2 regulation of integrin endocytosis, but not VEGF signaling, is crucial for developmental angiogenesis. *Journal of Cell Science*, **2014**, 127, e1-e1	5.3	4
248	Differential regulation of cell functions by CSD peptide subdomains. *Respiratory Research*, **2013**, 14, 90	7.3	6
247	eNOS-derived nitric oxide regulates endothelial barrier function through VE-cadherin and Rho GTPases. *Journal of Cell Science*, **2013**, 126, 5541-52	5.3	96
246	Endothelial glucocorticoid receptor is required for protection against sepsis. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 306-11	11.5	96

245	eNOS phosphorylation on serine 1176 affects insulin sensitivity and adiposity. *Biochemical and Biophysical Research Communications*, **2013**, 431, 284-90	3.4	28
244	Ten-eleven translocation (Tet) and thymine DNA glycosylase (TDG), components of the demethylation pathway, are direct targets of miRNA-29a. *Biochemical and Biophysical Research Communications*, **2013**, 437, 368-73	3.4	71
243	Telmisartan exerts pleiotropic effects in endothelial cells and promotes endothelial cell quiescence and survival. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1852-60	9.4	14
242	miRNAs as modulators of angiogenesis. *Cold Spring Harbor Perspectives in Medicine*, **2013**, 3, a006643	5.4	124
241	Deficient eNOS phosphorylation is a mechanism for diabetic vascular dysfunction contributing to increased stroke size. *Stroke*, **2013**, 44, 3183-8	6.7	43
240	IL-13 receptor α2-arginase 2 pathway mediates IL-13-induced pulmonary hypertension. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2013**, 304, L112-24	5.8	35
239	Rapamycin inhibits smooth muscle cell proliferation and obstructive arteriopathy attributable to elastin deficiency. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 1028-35	9.4	33
238	Hypoxia-inducible factor-1α in vascular smooth muscle regulates blood pressure homeostasis through a peroxisome proliferator-activated receptor-γ angiotensin II receptor type 1 axis. *Hypertension*, **2013**, 62, 634-40	8.5	24
237	NO triggers RGS4 degradation to coordinate angiogenesis and cardiomyocyte growth. *Journal of Clinical Investigation*, **2013**, 123, 1718-31	15.9	59
236	The Nogo-B-PirB axis controls macrophage-mediated vascular remodeling. *PLoS ONE*, **2013**, 8, e81019	3.7	17
235	Integrase-deficient lentiviral vectors mediate efficient gene transfer to human vascular smooth muscle cells with minimal genotoxic risk. *Human Gene Therapy*, **2012**, 23, 1247-57	4.8	14
234	Macrophage α2 integrin-mediated, HuR-dependent stabilization of angiogenic factor-encoding mRNAs in inflammatory angiogenesis. *American Journal of Pathology*, **2012**, 180, 1751-60	5.8	38
233	Endothelium derived nitric oxide synthase negatively regulates the PDGF-survivin pathway during flow-dependent vascular remodeling. *PLoS ONE*, **2012**, 7, e31495	3.7	22
232	Proteomic identification of S-nitrosylated Golgi proteins: new insights into endothelial cell regulation by eNOS-derived NO. *PLoS ONE*, **2012**, 7, e31564	3.7	17
231	Nitric oxide synthases: regulation and function. *European Heart Journal*, **2012**, 33, 829-37, 837a-837d	9.5	2229
230	Inhibition of microRNA-29 enhances elastin levels in cells haploinsufficient for elastin and in bioengineered vessels--brief report. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 756-9	9.4	81
229	Engineered zinc-finger proteins can compensate genetic haploinsufficiency by transcriptional activation of the wild-type allele: application to Willams-Beuren syndrome and supravalvular aortic stenosis. *Human Gene Therapy*, **2012**, 23, 1186-99	4.8	9
228	Endothelial cell palmitoylproteomic identifies novel lipid-modified targets and potential substrates for protein acyl transferases. *Circulation Research*, **2012**, 110, 1336-44	15.7	52

227	Reperfusion injury intensifies the adaptive human T cell alloresponse in a human-mouse chimeric artery model. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 353-60	9.4	21
226	Caveolae, fenestrae and transendothelial channels retain PV1 on the surface of endothelial cells. *PLoS ONE*, **2012**, 7, e32655	3.7	31
225	Is the eukaryotic cis-prenyltransferase a heteromer? The role of NgBR and its yeast ortholog Nus1 in protein glycosylation. *FASEB Journal*, **2012**, 26, 787.5	0.9	
224	NogoB receptor is essential for extraembryonic vascular development and protein glycosylation. *FASEB Journal*, **2012**, 26, 607.5	0.9	
223	Characterization of Lipid Droplet and Its Regulation by Caveolin-1 in Endothelial Cells. *FASEB Journal*, **2012**, 26, 597.1	0.9	
222	A noninhibitory mutant of the caveolin-1 scaffolding domain enhances eNOS-derived NO synthesis and vasodilation in mice. *Journal of Clinical Investigation*, **2011**, 121, 3747-55	15.9	93
221	Can microRNAs control vascular smooth muscle phenotypic modulation and the response to injury?. *Physiological Genomics*, **2011**, 43, 529-33	3.6	66
220	Endothelial reticulon-4B (Nogo-B) regulates ICAM-1-mediated leukocyte transmigration and acute inflammation. *Blood*, **2011**, 117, 2284-95	2.2	42
219	Nogo-B receptor is necessary for cellular dolichol biosynthesis and protein N-glycosylation. *EMBO Journal*, **2011**, 30, 2490-500	13	73
218	Reticulon 4B (Nogo-B) is a novel regulator of hepatic fibrosis. *Hepatology*, **2011**, 53, 1306-15	11.2	44
217	Distinct roles of endothelial and adipocyte caveolin-1 in macrophage infiltration and adipose tissue metabolic activity. *Diabetes*, **2011**, 60, 448-53	0.9	43
216	NFBD1/MDC1 regulates Cav1 and Cav2 independently of DNA damage and p53. *Molecular Cancer Research*, **2011**, 9, 766-81	6.6	9
215	MicroRNA regulation of cardiovascular functions. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 2369	9.4	5
214	The role of Nogo and the mitochondria-endoplasmic reticulum unit in pulmonary hypertension. *Science Translational Medicine*, **2011**, 3, 88ra55	17.5	166
213	Eph-B4 prevents venous adaptive remodeling in the adult arterial environment. *Journal of Experimental Medicine*, **2011**, 208, 561-75	16.6	48
212	Endothelial nitric oxide synthase controls the expression of the angiogenesis inhibitor thrombospondin 2. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, E1137-45	11.5	54
211	Suppression of eNOS-derived superoxide by caveolin-1: a biopterin-dependent mechanism. *American Journal of Physiology - Heart and Circulatory Physiology*, **2011**, 301, H903-11	5.2	44
210	Smooth muscle miRNAs are critical for post-natal regulation of blood pressure and vascular function. *PLoS ONE*, **2011**, 6, e18869	3.7	97

209	Telmisartan regresses left ventricular hypertrophy in caveolin-1-deficient mice. *Laboratory Investigation*, **2010**, 90, 1573-81	5.9	10
208	Quantitative proteomics of caveolin-1-regulated proteins: characterization of polymerase i and transcript release factor/CAVIN-1 IN endothelial cells. *Molecular and Cellular Proteomics*, **2010**, 9, 2109-24	7.6	33
207	Epithelial reticulon 4B (Nogo-B) is an endogenous regulator of Th2-driven lung inflammation. *Journal of Experimental Medicine*, **2010**, 207, 2595-607	16.6	35
206	MicroRNAs are necessary for vascular smooth muscle growth, differentiation, and function. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1118-26	9.4	201
205	Sin1-mTORC2 suppresses rag and il7r gene expression through Akt2 in B cells. *Molecular Cell*, **2010**, 39, 433-43	17.6	60
204	A new way to lower blood pressure: pass the chili peppers please!. *Cell Metabolism*, **2010**, 12, 109-10	24.6	7
203	Caveolae, caveolins, and cavins: complex control of cellular signalling and inflammation. *Cardiovascular Research*, **2010**, 86, 219-25	9.9	211
202	Endothelial-specific overexpression of caveolin-1 accelerates atherosclerosis in apolipoprotein E-deficient mice. *American Journal of Pathology*, **2010**, 177, 998-1003	5.8	73
201	Identification and regulation of reticulon 4B (Nogo-B) in renal tubular epithelial cells. *American Journal of Pathology*, **2010**, 177, 2765-73	5.8	14
200	ATP-binding cassette transporter G1 and high-density lipoprotein promote endothelial NO synthesis through a decrease in the interaction of caveolin-1 and endothelial NO synthase. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 2219-25	9.4	80
199	CCM3 signaling through sterile 20-like kinases plays an essential role during zebrafish cardiovascular development and cerebral cavernous malformations. *Journal of Clinical Investigation*, **2010**, 120, 2795-804	15.9	116
198	MicroRNAs as novel regulators of angiogenesis. *Circulation Research*, **2009**, 104, 442-54	15.7	340
197	Akt1 is critical for acute inflammation and histamine-mediated vascular leakage. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 14552-7	11.5	119
196	Reticulon 4B (Nogo-B) is necessary for macrophage infiltration and tissue repair. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 17511-6	11.5	69
195	Myoferlin is critical for endocytosis in endothelial cells. *American Journal of Physiology - Cell Physiology*, **2009**, 297, C484-92	5.4	64
194	Absence of Akt1 reduces vascular smooth muscle cell migration and survival and induces features of plaque vulnerability and cardiac dysfunction during atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2009**, 29, 2033-40	9.4	118
193	Serial noninvasive targeted imaging of peripheral angiogenesis: validation and application of a semiautomated quantitative approach. *Journal of Nuclear Medicine*, **2009**, 50, 1356-63	8.9	32
192	Molecular control of blood flow and angiogenesis: role of nitric oxide. *Journal of Thrombosis and Haemostasis*, **2009**, 7 Suppl 1, 35-7	15.4	76

191	Bayesian Analysis of iTRAQ Data with Nonrandom Missingness: Identification of Differentially Expressed Proteins. *Statistics in Biosciences*, **2009**, 1, 228-245	1.5	16
190	Genetic evidence supporting a critical role of endothelial caveolin-1 during the progression of atherosclerosis. *Cell Metabolism*, **2009**, 10, 48-54	24.6	116
189	Nogo-B receptor stabilizes Niemann-Pick type C2 protein and regulates intracellular cholesterol trafficking. *Cell Metabolism*, **2009**, 10, 208-18	24.6	55
188	Endothelial caveolin-1 regulates pathologic angiogenesis in a mouse model of colitis. *Gastroenterology*, **2009**, 136, 575-84.e2	13.3	44
187	The Akt1-eNOS axis illustrates the specificity of kinase-substrate relationships in vivo. *Science Signaling*, **2009**, 2, ra41	8.8	70
186	The mammalian target of rapamycin complex 2 controls folding and stability of Akt and protein kinase C. *EMBO Journal*, **2008**, 27, 1932-43	13	412
185	Perivascular nitric oxide gradients normalize tumor vasculature. *Nature Medicine*, **2008**, 14, 255-7	50.5	136
184	Thrombospondin-2 modulates extracellular matrix remodeling during physiological angiogenesis. *American Journal of Pathology*, **2008**, 173, 879-91	5.8	75
183	Serine 23 and 36 phosphorylation of caveolin-2 is differentially regulated by targeting to lipid raft/caveolae and in mitotic endothelial cells. *Biochemistry*, **2008**, 47, 101-11	3.2	24
182	Prohibitin-1 maintains the angiogenic capacity of endothelial cells by regulating mitochondrial function and senescence. *Journal of Cell Biology*, **2008**, 180, 101-12	7.3	159
181	Are the mechanisms for NO-dependent vascular remodeling different from vasorelaxation in vivo?. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1207-8	9.4	8
180	Dicer-dependent endothelial microRNAs are necessary for postnatal angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 14082-7	11.5	406
179	MyD88-dependent, superoxide-initiated inflammation is necessary for flow-mediated inward remodeling of conduit arteries. *Journal of Experimental Medicine*, **2008**, 205, 3159-71	16.6	56
178	Role of prostaglandin D2 receptor DP as a suppressor of tumor hyperpermeability and angiogenesis in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 20009-14	11.5	70
177	Dominant-negative Hsp90 reduces VEGF-stimulated nitric oxide release and migration in endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 105-11	9.4	49
176	In vivo modulation of Nogo-B attenuates neointima formation. *Molecular Therapy*, **2008**, 16, 1798-804	11.7	33
175	Approaches for studying angiogenesis-related signal transduction. *Methods in Enzymology*, **2008**, 443, 1-23	1.7	2
174	AIP1 functions as an endogenous inhibitor of VEGFR2-mediated signaling and inflammatory angiogenesis in mice. *Journal of Clinical Investigation*, **2008**, 118, 3904-16	15.9	64

173	Caveolin-1 influences vascular protease activity and is a potential stabilizing factor in human atherosclerotic disease. *PLoS ONE*, **2008**, 3, e2612	3.7	30
172	Nogo-B limits intima-media thickening during mouse vein graft adaptation. *FASEB Journal*, **2008**, 22, 174.4	0.9	
171	The phosphodiesterase 5 inhibitor sildenafil stimulates angiogenesis through a protein kinase G/MAPK pathway. *Journal of Cellular Physiology*, **2007**, 211, 197-204	7	66
170	Evolving functions of endothelial cells in inflammation. *Nature Reviews Immunology*, **2007**, 7, 803-15	36.5	1130
169	Vascular endothelium summary statement I: Health promotion and chronic disease prevention. *Vascular Pharmacology*, **2007**, 46, 315-7	5.9	13
168	Evidence supporting changes in Nogo-B levels as a marker of neointimal expansion but not adaptive arterial remodeling. *Vascular Pharmacology*, **2007**, 46, 293-301	5.9	22
167	Gene transduction of an active mutant of akt exerts cytoprotection and reduces graft injury after liver transplantation. *American Journal of Transplantation*, **2007**, 7, 769-78	8.7	12
166	Genetic evidence supporting caveolae microdomain regulation of calcium entry in endothelial cells. *Journal of Biological Chemistry*, **2007**, 282, 16631-43	5.4	118
165	Myoferlin regulates vascular endothelial growth factor receptor-2 stability and function. *Journal of Biological Chemistry*, **2007**, 282, 30745-53	5.4	82
164	Venous identity is lost but arterial identity is not gained during vein graft adaptation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1562-71	9.4	106
163	Reexpression of caveolin-1 in endothelium rescues the vascular, cardiac, and pulmonary defects in global caveolin-1 knockout mice. *Journal of Experimental Medicine*, **2007**, 204, 2373-82	16.6	188
162	Dicer dependent microRNAs regulate gene expression and functions in human endothelial cells. *Circulation Research*, **2007**, 100, 1164-73	15.7	585
161	Caveolin-1-deficient mice have increased tumor microvascular permeability, angiogenesis, and growth. *Cancer Research*, **2007**, 67, 2849-56	10.1	119
160	Variant estrogen receptor-c-Src molecular interdependence and c-Src structural requirements for endothelial NO synthase activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 16468-73	11.5	70
159	Low levels of Nogo-B in human carotid atherosclerotic plaques are associated with an atheromatous phenotype, restenosis, and stenosis severity. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1354-60	9.4	34
158	Role of endothelial-derived nitric oxide in hypertension and renal disease. *Current Opinion in Nephrology and Hypertension*, **2007**, 16, 105-10	3.5	23
157	Loss of Akt1 leads to severe atherosclerosis and occlusive coronary artery disease. *Cell Metabolism*, **2007**, 6, 446-57	24.6	209
156	Endothelial-specific expression of mitochondrial thioredoxin improves endothelial cell function and reduces atherosclerotic lesions. *American Journal of Pathology*, **2007**, 170, 1108-20	5.8	116

155	Nitric oxide synthase inhibition and cancer. *Lancet Oncology, The*, **2007**, 8, 88-9	21.7	4
154	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. *Journal of Clinical Investigation*, **2007**, 117, 1961-7	15.9	125
153	Regulation of Caveolin-2 Phosphorylation at Serines 23 and 36. *FASEB Journal*, **2007**, 21, A1424	0.9	
152	Reexpression of caveolin-1 in endothelium rescues the vascular, cardiac, and pulmonary defects in global caveolin-1 knockout mice. *Journal of Cell Biology*, **2007**, 179, i1-i1	7.3	
151	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
150	Pathological angiogenesis is induced by sustained Akt signaling and inhibited by rapamycin. *Cancer Cell*, **2006**, 10, 159-70	24.3	351
149	Mild increases in portal pressure upregulate vascular endothelial growth factor and endothelial nitric oxide synthase in the intestinal microcirculatory bed, leading to a hyperdynamic state. *American Journal of Physiology - Renal Physiology*, **2006**, 290, G980-7	5.1	138
148	Nitric oxide synthase generates nitric oxide locally to regulate compartmentalized protein S-nitrosylation and protein trafficking. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19777-82	11.5	206
147	Identification of Golgi-localized acyl transferases that palmitoylate and regulate endothelial nitric oxide synthase. *Journal of Cell Biology*, **2006**, 174, 369-77	7.3	131
146	Direct evidence for the role of caveolin-1 and caveolae in mechanotransduction and remodeling of blood vessels. *Journal of Clinical Investigation*, **2006**, 116, 1284-91	15.9	278
145	Essential role of nitric oxide in VEGF-induced, asthma-like angiogenic, inflammatory, mucus, and physiologic responses in the lung. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 11021-6	11.5	93
144	Vascular endothelial growth factor signaling to endothelial nitric oxide synthase: more than a FLeeTing moment. *Circulation Research*, **2006**, 99, 666-8	15.7	30
143	An engineered VEGF-activating zinc finger protein transcription factor improves blood flow and limb salvage in advanced-age mice. *FASEB Journal*, **2006**, 20, 479-81	0.9	48
142	Functional relevance of Golgi- and plasma membrane-localized endothelial NO synthase in reconstituted endothelial cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2006**, 26, 1015-21	9.4	82
141	Identification of a receptor necessary for Nogo-B stimulated chemotaxis and morphogenesis of endothelial cells. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 10997-1002	11.5	110
140	Differential functions of tumor necrosis factor receptor 1 and 2 signaling in ischemia-mediated arteriogenesis and angiogenesis. *American Journal of Pathology*, **2006**, 169, 1886-98	5.8	108
139	Effective treatment of vascular endothelial growth factor refractory hindlimb ischemia by a mutant endothelial nitric oxide synthase gene. *Gene Therapy*, **2006**, 13, 1342-50	4	19
138	Endothelial nitric oxide synthase regulates microvascular hyperpermeability in vivo. *Journal of Physiology*, **2006**, 574, 275-81	3.9	85

137	Critical function of Bmx/Etk in ischemia-mediated arteriogenesis and angiogenesis. *Journal of Clinical Investigation*, **2006**, 116, 2344-55	15.9	64
136	Expression and function of recombinant S1179D endothelial NO synthase in human pial arteries. *Stroke*, **2005**, 36, 158-60	6.7	10
135	Hsp90-Akt phosphorylates ASK1 and inhibits ASK1-mediated apoptosis. *Oncogene*, **2005**, 24, 3954-63	9.2	139
134	Intracellular location regulates calcium-calmodulin-dependent activation of organelle-restricted eNOS. *American Journal of Physiology - Cell Physiology*, **2005**, 289, C1024-33	5.4	69
133	PKCalpha activates eNOS and increases arterial blood flow in vivo. *Circulation Research*, **2005**, 97, 482-7	15.7	76
132	Endothelial nitric oxide synthase is critical for ischemic remodeling, mural cell recruitment, and blood flow reserve. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 10999-1004	11.5	261
131	Interaction between the 90-kDa heat shock protein and soluble guanylyl cyclase: physiological significance and mapping of the domains mediating binding. *Molecular Pharmacology*, **2005**, 68, 1133-41	4.3	48
130	Dissecting the molecular control of endothelial NO synthase by caveolin-1 using cell-permeable peptides. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 761-6	11.5	163
129	Endothelial-specific expression of caveolin-1 impairs microvascular permeability and angiogenesis. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 204-9	11.5	135
128	Endothelial nitric oxide synthase activation is critical for vascular leakage during acute inflammation in vivo. *Proceedings of the National Academy of Sciences of the United States of America*, **2005**, 102, 904-8	11.5	126
127	Akt1/protein kinase Balpha is critical for ischemic and VEGF-mediated angiogenesis. *Journal of Clinical Investigation*, **2005**, 115, 2119-27	15.9	303
126	Regulation of endothelial derived nitric oxide in health and disease. *Memorias Do Instituto Oswaldo Cruz*, **2005**, 100 Suppl 1, 15-8	2.6	83
125	Endothelial nitric oxide synthase regulates microlymphatic flow via collecting lymphatics. *Circulation Research*, **2004**, 95, 204-9	15.7	83
124	eNOS at a glance. *Journal of Cell Science*, **2004**, 117, 2427-9	5.3	433
123	Histamine inhibits conducted vasodilation through endothelium-derived NO production in arterioles of mouse skeletal muscle. *FASEB Journal*, **2004**, 18, 280-6	0.9	26
122	Caveolae and caveolins in the cardiovascular system. *Circulation Research*, **2004**, 94, 1408-17	15.7	268
121	Diabetic mouse angiopathy is linked to progressive sympathetic receptor deletion coupled to an enhanced caveolin-1 expression. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2004**, 24, 721-6	9.4	51
120	Role of endothelial nitric oxide synthase in endothelial activation: insights from eNOS knockout endothelial cells. *American Journal of Physiology - Cell Physiology*, **2004**, 286, C1195-202	5.4	100

119	Vanadate is a potent activator of endothelial nitric-oxide synthase: evidence for the role of the serine/threonine kinase Akt and the 90-kDa heat shock protein. *Molecular Pharmacology*, **2004**, 65, 407-15	4.3	46
118	Targeting of endothelial nitric-oxide synthase to the cytoplasmic face of the Golgi complex or plasma membrane regulates Akt- versus calcium-dependent mechanisms for nitric oxide release. *Journal of Biological Chemistry*, **2004**, 279, 30349-57	5.4	111
117	Interferon-gamma plays a nonredundant role in mediating T cell-dependent outward vascular remodeling of allogeneic human coronary arteries. *FASEB Journal*, **2004**, 18, 606-8	0.9	60
116	A new role for Nogo as a regulator of vascular remodeling. *Nature Medicine*, **2004**, 10, 382-8	50.5	192
115	Antiangiogenic therapy: creating a unique "window" of opportunity. *Cancer Cell*, **2004**, 6, 529-31	24.3	38
114	Heat shock protein 90 and tyrosine kinase regulate eNOS NO* generation but not NO* bioactivity. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 286, H561-9	5.2	44
113	T cell-mediated vascular dysfunction of human allografts results from IFN-gamma dysregulation of NO synthase. *Journal of Clinical Investigation*, **2004**, 114, 846-56	15.9	80
112	Endothelial-derived nitric oxide as a marker for healthy endothelium **2004**, 19-23		1
111	Chaperone-dependent regulation of endothelial nitric-oxide synthase intracellular trafficking by the co-chaperone/ubiquitin ligase CHIP. *Journal of Biological Chemistry*, **2003**, 278, 49332-41	5.4	84
110	Regulation of survivin function by Hsp90. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 13791-6	11.5	282
109	The phosphorylation of caveolin-2 on serines 23 and 36 modulates caveolin-1-dependent caveolae formation. *Proceedings of the National Academy of Sciences of the United States of America*, **2003**, 100, 6511-6	11.5	87
108	Caveolin regulation of endothelial function. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2003**, 285, L1179-83	5.8	236
107	Phosphorylation of threonine 497 in endothelial nitric-oxide synthase coordinates the coupling of L-arginine metabolism to efficient nitric oxide production. *Journal of Biological Chemistry*, **2003**, 278, 44719-26	5.4	194
106	Abolition of arteriolar dilation but not constriction to histamine in cremaster muscle of eNOS-/- mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2003**, 285, H493-8	5.2	16
105	Adeno-associated virus mediated gene delivery into coronary microvessels of chronically instrumented dogs. *Journal of Applied Physiology*, **2003**, 95, 1688-94	3.7	3
104	Selective inhibition of tumor microvascular permeability by cavtratin blocks tumor progression in mice. *Cancer Cell*, **2003**, 4, 31-9	24.3	221
103	Endothelial NO synthase phosphorylated at SER635 produces NO without requiring intracellular calcium increase. *Free Radical Biology and Medicine*, **2003**, 35, 729-41	7.8	80
102	Cell-permeable peptides improve cellular uptake and therapeutic gene delivery of replication-deficient viruses in cells and in vivo. *Nature Medicine*, **2003**, 9, 357-62	50.5	153

101	Mesenteric vasoconstriction triggers nitric oxide overproduction in the superior mesenteric artery of portal hypertensive rats. *Gastroenterology*, **2003**, 125, 1452-61	13.3	65
100	Transduction of the liver with activated Akt normalizes portal pressure in cirrhotic rats. *Gastroenterology*, **2003**, 125, 522-31	13.3	99
99	Endothelial nitric oxide synthase: the Cinderella of inflammation?. *Trends in Pharmacological Sciences*, **2003**, 24, 91-5	13.2	150
98	Compensatory phosphorylation and protein-protein interactions revealed by loss of function and gain of function mutants of multiple serine phosphorylation sites in endothelial nitric-oxide synthase. *Journal of Biological Chemistry*, **2003**, 278, 14841-9	5.4	187
97	Src kinase mediates phosphatidylinositol 3-kinase/Akt-dependent rapid endothelial nitric-oxide synthase activation by estrogen. *Journal of Biological Chemistry*, **2003**, 278, 2118-23	5.4	240
96	Caveolin-1 can regulate vascular smooth muscle cell fate by switching platelet-derived growth factor signaling from a proliferative to an apoptotic pathway. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2003**, 23, 1521-7	9.4	85
95	Mice with targeted deletion of eNOS develop hyperdynamic circulation associated with portal hypertension. *American Journal of Physiology - Renal Physiology*, **2002**, 283, G1074-81	5.1	55
94	Phosphorylation of eNOS initiates excessive NO production in early phases of portal hypertension. *American Journal of Physiology - Heart and Circulatory Physiology*, **2002**, 282, H2084-90	5.2	58
93	Expression and function of recombinant S1179D endothelial nitric oxide synthase in canine cerebral arteries. *Stroke*, **2002**, 33, 1071-6	6.7	18
92	Native low-density lipoprotein induces endothelial nitric oxide synthase dysfunction: role of heat shock protein 90 and caveolin-1. *Free Radical Biology and Medicine*, **2002**, 33, 52-62	7.8	41
91	Nitric oxide-releasing aspirin decreases vascular injury by reducing inflammation and promoting apoptosis. *Laboratory Investigation*, **2002**, 82, 825-32	5.9	26
90	Inhibitor of apoptosis protein survivin regulates vascular injury. *Nature Medicine*, **2002**, 8, 987-94	50.5	119
89	Functional reconstitution of endothelial nitric oxide synthase reveals the importance of serine 1179 in endothelium-dependent vasomotion. *Circulation Research*, **2002**, 90, 904-10	15.7	105
88	Localization of endothelial nitric-oxide synthase phosphorylated on serine 1179 and nitric oxide in Golgi and plasma membrane defines the existence of two pools of active enzyme. *Journal of Biological Chemistry*, **2002**, 277, 4277-84	5.4	170
87	Chronic treatment with nitric oxide-releasing aspirin reduces plasma low-density lipoprotein oxidation and oxidative stress, arterial oxidation-specific epitopes, and atherogenesis in hypercholesterolemic mice. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 12467-70	11.5	63
86	Angiopoietin-1 negatively regulates expression and activity of tissue factor in endothelial cells. *FASEB Journal*, **2002**, 16, 126-8	0.9	85
85	There's NO binding like NOS binding: protein-protein interactions in NO/cGMP signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 16510-2	11.5	67
84	Domain mapping studies reveal that the M domain of hsp90 serves as a molecular scaffold to regulate Akt-dependent phosphorylation of endothelial nitric oxide synthase and NO release. *Circulation Research*, **2002**, 90, 866-73	15.7	286

83	Sphingosine 1-phosphate activates Akt, nitric oxide production, and chemotaxis through a Gi protein/phosphoinositide 3-kinase pathway in endothelial cells. *Journal of Biological Chemistry*, **2001**, 276, 19672-7	5.4	224
82	The sonic hedgehog receptor patched associates with caveolin-1 in cholesterol-rich microdomains of the plasma membrane. *Journal of Biological Chemistry*, **2001**, 276, 19503-11	5.4	100
81	Direct interaction between endothelial nitric-oxide synthase and dynamin-2. Implications for nitric-oxide synthase function. *Journal of Biological Chemistry*, **2001**, 276, 14249-56	5.4	91
80	Acidic hydrolysis as a mechanism for the cleavage of the Glu(298)-->Asp variant of human endothelial nitric-oxide synthase. *Journal of Biological Chemistry*, **2001**, 276, 26674-9	5.4	123
79	Akt down-regulation of p38 signaling provides a novel mechanism of vascular endothelial growth factor-mediated cytoprotection in endothelial cells. *Journal of Biological Chemistry*, **2001**, 276, 30359-65	5.4	230
78	Distinction between signaling mechanisms in lipid rafts vs. caveolae. *Proceedings of the National Academy of Sciences of the United States of America*, **2001**, 98, 14072-7	11.5	190
77	Heat shock protein 90 mediates the balance of nitric oxide and superoxide anion from endothelial nitric-oxide synthase. *Journal of Biological Chemistry*, **2001**, 276, 17621-4	5.4	252
76	Suppression of vascular endothelial growth factor-mediated endothelial cell protection by survivin targeting. *American Journal of Pathology*, **2001**, 158, 1757-65	5.8	162
75	Can modulation of endothelial nitric oxide synthase explain the vasculoprotective actions of statins?. *Trends in Molecular Medicine*, **2001**, 7, 189-91	11.5	28
74	Akt-mediated phosphorylation of the G protein-coupled receptor EDG-1 is required for endothelial cell chemotaxis. *Molecular Cell*, **2001**, 8, 693-704	17.6	269
73	The HMG-CoA reductase inhibitor simvastatin activates the protein kinase Akt and promotes angiogenesis in normocholesterolemic animals. *Nature Medicine*, **2000**, 6, 1004-10	50.5	1230
72	In vivo delivery of the caveolin-1 scaffolding domain inhibits nitric oxide synthesis and reduces inflammation. *Nature Medicine*, **2000**, 6, 1362-7	50.5	472
71	Geldanamycin, an inhibitor of heat shock protein 90 (Hsp90) mediated signal transduction has anti-inflammatory effects and interacts with glucocorticoid receptor in vivo. *British Journal of Pharmacology*, **2000**, 131, 13-6	8.6	57
70	Vasomotor control in arterioles of the mouse cremaster muscle. *FASEB Journal*, **2000**, 14, 197-207	0.9	80
69	Simvastatin upregulates coronary vascular endothelial nitric oxide production in conscious dogs. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 279, H2649-57	5.2	70
68	Quantification of eNOS mRNA in the canine cardiac vasculature by competitive PCR. *American Journal of Physiology - Heart and Circulatory Physiology*, **2000**, 278, H658-65	5.2	14
67	Acute modulation of endothelial Akt/PKB activity alters nitric oxide-dependent vasomotor activity in vivo. *Journal of Clinical Investigation*, **2000**, 106, 493-9	15.9	162
66	Estrogen stimulates heat shock protein 90 binding to endothelial nitric oxide synthase in human vascular endothelial cells. Effects on calcium sensitivity and NO release. *Journal of Biological Chemistry*, **2000**, 275, 5026-30	5.4	144

65	Temporal events underlying arterial remodeling after chronic flow reduction in mice: correlation of structural changes with a deficit in basal nitric oxide synthesis. *Circulation Research*, **2000**, 86, 1160-6	15.7	53
64	Vascular endothelial growth factor-stimulated actin reorganization and migration of endothelial cells is regulated via the serine/threonine kinase Akt. *Circulation Research*, **2000**, 86, 892-6	15.7	346
63	Angiopoietin-1 inhibits endothelial cell apoptosis via the Akt/survivin pathway. *Journal of Biological Chemistry*, **2000**, 275, 9102-5	5.4	485
62	Membrane estrogen receptor engagement activates endothelial nitric oxide synthase via the PI3-kinase-Akt pathway in human endothelial cells. *Circulation Research*, **2000**, 87, 677-82	15.7	476
61	Enhanced electron flux and reduced calmodulin dissociation may explain "calcium-independent" eNOS activation by phosphorylation. *Journal of Biological Chemistry*, **2000**, 275, 6123-8	5.4	305
60	Reconstitution of an endothelial nitric-oxide synthase (eNOS), hsp90, and caveolin-1 complex in vitro. Evidence that hsp90 facilitates calmodulin stimulated displacement of eNOS from caveolin-1. *Journal of Biological Chemistry*, **2000**, 275, 22268-72	5.4	249
59	Molecular Control of Endothelial Derived Nitric Oxide **2000**, 157-166		1
58	Hsp90 regulation of endothelial nitric oxide synthase contributes to vascular control in portal hypertension. *American Journal of Physiology - Renal Physiology*, **1999**, 277, G463-8	5.1	51
57	NO overproduction by eNOS precedes hyperdynamic splanchnic circulation in portal hypertensive rats. *American Journal of Physiology - Renal Physiology*, **1999**, 276, G1043-51	5.1	43
56	Codistribution of NOS and caveolin throughout peripheral vasculature and skeletal muscle of hamsters. *American Journal of Physiology - Heart and Circulatory Physiology*, **1999**, 277, H1167-77	5.2	70
55	Molecular control of nitric oxide synthases in the cardiovascular system. *Cardiovascular Research*, **1999**, 43, 509-20	9.9	140
54	Trafficking of endothelial nitric-oxide synthase in living cells. Quantitative evidence supporting the role of palmitoylation as a kinetic trapping mechanism limiting membrane diffusion. *Journal of Biological Chemistry*, **1999**, 274, 22524-31	5.4	96
53	Regulation of endothelium-derived nitric oxide production by the protein kinase Akt. *Nature*, **1999**, 399, 597-601	50.4	2190
52	Nitric oxide in endothelial dysfunction and vascular remodeling: clinical correlates and experimental links. *American Journal of Human Genetics*, **1999**, 64, 673-7	11	89
51	Impaired endothelial nitric oxide synthase activity associated with enhanced caveolin binding in experimental cirrhosis in the rat. *Gastroenterology*, **1999**, 117, 1222-8	13.3	279
50	Induction of nitric oxide synthase mRNA by shear stress requires intracellular calcium and G-protein signals and is modulated by PI 3 kinase. *Biochemical and Biophysical Research Communications*, **1999** , 254, 231-42	3.4	79
49	Caveolins, liquid-ordered domains, and signal transduction. *Molecular and Cellular Biology*, **1999**, 19, 7289-304	4.8	913
48	A vascular bed-specific pathway. *Journal of Clinical Investigation*, **1999**, 103, 799-805	15.9	47

47	Nitric Oxide Synthase Biology: Insights Gained from Knockout Mice **1999**, 96-110		
46	Dynamic activation of endothelial nitric oxide synthase by Hsp90. *Nature*, **1998**, 392, 821-4	50.4	871
45	Biological action of leptin as an angiogenic factor. *Science*, **1998**, 281, 1683-6	33.3	1017
44	Direct evidence for the importance of endothelium-derived nitric oxide in vascular remodeling. *Journal of Clinical Investigation*, **1998**, 101, 731-6	15.9	644
43	The first 35 amino acids and fatty acylation sites determine the molecular targeting of endothelial nitric oxide synthase into the Golgi region of cells: a green fluorescent protein study. *Journal of Cell Biology*, **1997**, 137, 1525-35	7.3	159
42	Dissecting the interaction between nitric oxide synthase (NOS) and caveolin. Functional significance of the nos caveolin binding domain in vivo. *Journal of Biological Chemistry*, **1997**, 272, 25437-40	5.4	639
41	Characterization of bovine endothelial nitric oxide synthase as a homodimer with down-regulated uncoupled NADPH oxidase activity: tetrahydrobiopterin binding kinetics and role of haem in dimerization. *Biochemical Journal*, **1997**, 323 (Pt 1), 159-65	3.8	139
40	Substrate binding and calmodulin binding to endothelial nitric oxide synthase coregulate its enzymatic activity. *Nitric Oxide - Biology and Chemistry*, **1997**, 1, 74-87	5	64
39	17 beta-estradiol regulation of human endothelial cell basal nitric oxide release, independent of cytosolic Ca2+ mobilization. *Circulation Research*, **1997**, 81, 885-92	15.7	337
38	Bacterial infection induces nitric oxide synthase in human neutrophils. *Journal of Clinical Investigation*, **1997**, 99, 110-6	15.9	219
37	Liver sinusoidal endothelial cells are responsible for nitric oxide modulation of resistance in the hepatic sinusoids. *Journal of Clinical Investigation*, **1997**, 100, 2923-30	15.9	258
36	Nitric oxide production contributes to the angiogenic properties of vascular endothelial growth factor in human endothelial cells. *Journal of Clinical Investigation*, **1997**, 100, 3131-9	15.9	894
35	Regulation of the NOS Gene Family **1997**, 66-85		1
34	Palmitoylation of endothelial nitric oxide synthase is necessary for optimal stimulated release of nitric oxide: implications for caveolae localization. *Biochemistry*, **1996**, 35, 13277-81	3.2	204
33	Characterization of bovine endothelial nitric oxide synthase expressed in E. coli. *Biochemical and Biophysical Research Communications*, **1996**, 219, 359-65	3.4	152
32	Targeting of nitric oxide synthase to endothelial cell caveolae via palmitoylation: implications for nitric oxide signaling. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 6448-53	11.5	596
31	Elevated blood pressures in mice lacking endothelial nitric oxide synthase. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 13176-81	11.5	770
30	Transcriptional Control of Endothelial Nitric Oxide Synthase Gene Expression. *Methods in Neurosciences*, **1996**, 31, 197-206		

29	Site-Directed Mutagenesis to Probe Endothelial Nitric Oxide Synthase Posttranslational Modifications. *Methods in Neurosciences*, **1996**, 207-212		
28	Nitric oxide synthase induction with renal transplant rejection or infection. *Kidney International*, **1996**, 50, 2088-93	9.9	31
27	Endothelial nitric oxide synthase is regulated by tyrosine phosphorylation and interacts with caveolin-1. *Journal of Biological Chemistry*, **1996**, 271, 27237-40	5.4	422
26	Reduced gene expression of vascular endothelial NO synthase and cyclooxygenase-1 in heart failure. *Circulation Research*, **1996**, 78, 58-64	15.7	186
25	Functional analysis of the human endothelial nitric oxide synthase promoter. Sp1 and GATA factors are necessary for basal transcription in endothelial cells. *Journal of Biological Chemistry*, **1995**, 270, 15320-6	5.4	186
24	The Golgi association of endothelial nitric oxide synthase is necessary for the efficient synthesis of nitric oxide. *Journal of Biological Chemistry*, **1995**, 270, 17641-4	5.4	213
23	Biosynthesis and palmitoylation of endothelial nitric oxide synthase: mutagenesis of palmitoylation sites, cysteines-15 and/or -26, argues against depalmitoylation-induced translocation of the enzyme. *Biochemistry*, **1995**, 34, 12333-40	3.2	115
22	Native low-density lipoprotein increases endothelial cell nitric oxide synthase generation of superoxide anion. *Circulation Research*, **1995**, 77, 510-8	15.7	322
21	Cyclic strain upregulates nitric oxide synthase in cultured bovine aortic endothelial cells. *Journal of Clinical Investigation*, **1995**, 96, 1449-54	15.9	262
20	Chronic exercise in dogs increases coronary vascular nitric oxide production and endothelial cell nitric oxide synthase gene expression. *Circulation Research*, **1994**, 74, 349-53	15.7	754
19	The nitric oxide synthase family of proteins. *Journal of Vascular Research*, **1994**, 31, 131-43	1.9	384
18	Regulation of nitric oxide synthesis by proinflammatory cytokines in human umbilical vein endothelial cells. Elevations in tetrahydrobiopterin levels enhance endothelial nitric oxide synthase specific activity. *Journal of Clinical Investigation*, **1994**, 93, 2236-43	15.9	286
17	20-hydroxyeicosatetraenoic acid is an endothelium-dependent vasoconstrictor in rabbit arteries. *European Journal of Pharmacology*, **1993**, 235, 1-7	5.3	53
16	Mutation of N-myristoylation site converts endothelial cell nitric oxide synthase from a membrane to a cytosolic protein. *Circulation Research*, **1993**, 72, 921-4	15.7	154
15	The Biosynthesis of Endothelium-Derived Relaxing Factor by Endothelial Cells as a Means of Removing Excess Nitrogen. *Journal of Cardiovascular Pharmacology*, **1991**, 17, S19-S24	3.1	4
14	Involvement of nitric oxide in the reflex relaxation of the stomach to accommodate food or fluid. *Nature*, **1991**, 351, 477-9	50.4	466
13	Human polymorphonuclear leukocytes generate and degrade endothelin-1 by two distinct neutral proteases. *Journal of Cardiovascular Pharmacology*, **1991**, 17 Suppl 7, S34-8	3.1	17
12	The biosynthesis of endothelin-1 by human polymorphonuclear leukocytes. *Biochemical and Biophysical Research Communications*, **1991**, 174, 613-8	3.4	163

11	STZ-induced diabetes in SHR and renovascular hypertensive rats: dissociation between changes in arterial pressure and vascular collagen synthesis. *Clinical and Experimental Hypertension*, **1990**, 12, 1003-19		
10	The metabolism of L-arginine and its significance for the biosynthesis of endothelium-derived relaxing factor: cultured endothelial cells recycle L-citrulline to L-arginine. *Proceedings of the National Academy of Sciences of the United States of America*, **1990**, 87, 8612-6	11.5	454
9	Cytochrome P450-dependent arachidonic acid metabolites, 19- and 20-hydroxyeicosatetraenoic acids, enhance sodium-potassium ATPase activity in vascular smooth muscle. *Journal of Cardiovascular Pharmacology*, **1990**, 16, 438-43	3.1	21
8	Inhibition by L-glutamine of the release of endothelium-derived relaxing factor from cultured endothelial cells. *British Journal of Pharmacology*, **1990**, 101, 237-9	8.6	34
7	Release of a neutrophil-derived vasoconstrictor agent which augments platelet-induced contractions of blood vessels in vitro. *British Journal of Pharmacology*, **1990**, 99, 553-9	8.6	33
6	L-glutamine inhibits the release of endothelium-derived relaxing factor from the rabbit aorta. *Biochemical and Biophysical Research Communications*, **1990**, 172, 143-8	3.4	34
5	Manipulation of cytochrome P-450 dependent renal thromboxane synthase activity in spontaneously hypertensive rats. *Journal of Hypertension*, **1989**, 7, 37-42	1.9	16
4	Myocardial salvage induced by REV-5901: an inhibitor and antagonist of the leukotrienes. *Journal of Cardiovascular Pharmacology*, **1987**, 10, 398-406	3.1	53
3	Depressor effect of diabetes in spontaneously hypertensive rat: role of vascular reactivity and prolyl hydroxylase and lysyl oxidase activities. *Life Sciences*, **1985**, 37, 2237-47	6.8	10
2	Nitric Oxide as an Autocrine and Paracrine Regulator of Vessel Function988-993		
1	eNOS-induced vascular barrier disruption in retinopathy by c-Src activation and tyrosine phosphorylation of VE-cadherin		1