William C Sessa

List of Publications by Year
in descending order

324 papers	49,262 citations	1301 109 h-index	1676 214 g-index
339 all docs	339 docs citations	339 times ranked	41749 citing authors

#	Article	IF	Citations
1	Nitric oxide synthases: regulation and function. European Heart Journal, 2012, 33, 829-837.	2.2	3,036
2	Regulation of endothelium-derived nitric oxide production by the protein kinase Akt. Nature, 1999, 399, 597-601.	27.8	2,384
3	Evolving functions of endothelial cells in inflammation. Nature Reviews Immunology, 2007, 7, 803-815.	22.7	1,505
4	The HMG-CoA reductase inhibitor simvastatin activates the protein kinase Akt and promotes angiogenesis in normocholesterolemic animals.. Nature Medicine, 2000, 6, 1004-1010.	30.7	1,355
5	Biological Action of Leptin as an Angiogenic Factor. Science, 1998, 281, 1683-1686.	12.6	1,209
6	Nitric oxide production contributes to the angiogenic properties of vascular endothelial growth factor in human endothelial cells.. Journal of Clinical Investigation, 1997, 100, 3131-3139.	8.2	1,030
7	Dynamic activation of endothelial nitric oxide synthase by Hsp90. Nature, 1998, 392, 821-824.	27.8	964
8	Caveolins, Liquid-Ordered Domains, and Signal Transduction. Molecular and Cellular Biology, 1999, 19, 7289-7304.	2.3	960
9	Chronic exercise in dogs increases coronary vascular nitric oxide production and endothelial cell nitric oxide synthase gene expression.. Circulation Research, 1994, 74, 349-353.	4.5	837
10	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, 13176-13181.	7.1	835
11	Dissecting the Interaction between Nitric Oxide Synthase (NOS) and Caveolin. Journal of Biological Chemistry, 1997, 272, 25437-25440.	3.4	731
12	Direct evidence for the importance of endothelium-derived nitric oxide in vascular remodeling.. Journal of Clinical Investigation, 1998, 101, 731-736.	8.2	727
13	Dicer Dependent MicroRNAs Regulate Gene Expression and Functions in Human Endothelial Cells. Circulation Research, 2007, 100, 1164-1173.	4.5	656
14	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, 6448-6453.	7.1	642
15	Angiopoietin-1 Inhibits Endothelial Cell Apoptosis via the Akt/Survivin Pathway. Journal of Biological Chemistry, 2000, 275, 9102-9105.	3.4	552
16	Membrane Estrogen Receptor Engagement Activates Endothelial Nitric Oxide Synthase via the PI3-Kinaseâ€“Akt Pathway in Human Endothelial Cells. Circulation Research, 2000, 87, 677-682.	4.5	522
17	In vivo delivery of the caveolin-1 scaffolding domain inhibits nitric oxide synthesis and reduces inflammation. Nature Medicine, 2000, 6, 1362-1367.	30.7	519
18	Involvement of nitric oxide in the reflex relaxation of the stomach to accommodate food or fluid. Nature, 1991, 351, 477-479.	27.8	508

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19	eNOS at a glance. Journal of Cell Science, 2004, 117, 2427-2429.	2.0	500
20	The mammalian target of rapamycin complex 2 controls folding and stability of Akt and protein kinase C. EMBO Journal, 2008, 27, 1932-1943.	7.8	482
21	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, 8612-8616.	7.1	480
22	Endothelial Nitric Oxide Synthase Is Regulated by Tyrosine Phosphorylation and Interacts with Caveolin-1. Journal of Biological Chemistry, 1996, 271, 27237-27240.	3.4	468
23	Dicer-dependent endothelial microRNAs are necessary for postnatal angiogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 14082-14087.	7.1	453
24	The Nitric Oxide Synthase Family of Proteins. Journal of Vascular Research, 1994, 31, 131-143.	1.4	428
25	17Î²-Estradiol Regulation of Human Endothelial Cell Basal Nitric Oxide Release, Independent of Cytosolic Ca ²⁺ Mobilization. Circulation Research, 1997, 81, 885-892.	4.5	402
26	Pathological angiogenesis is induced by sustained Akt signaling and inhibited by rapamycin. Cancer Cell, 2006, 10, 159-170.	16.8	388
27	Vascular Endothelial Growth Factorâ€“Stimulated Actin Reorganization and Migration of Endothelial Cells Is Regulated via the Serine/Threonine Kinase Akt. Circulation Research, 2000, 86, 892-896.	4.5	386
28	MicroRNAs As Novel Regulators of Angiogenesis. Circulation Research, 2009, 104, 442-454.	4.5	383
29	Native Low-Density Lipoprotein Increases Endothelial Cell Nitric Oxide Synthase Generation of Superoxide Anion. Circulation Research, 1995, 77, 510-518.	4.5	380
30	Enhanced Electron Flux and Reduced Calmodulin Dissociation May Explain â€œCalcium-independentâ€• eNOS Activation by Phosphorylation. Journal of Biological Chemistry, 2000, 275, 6123-6128.	3.4	344
31	Akt1/protein kinase BÂ is critical for ischemic and VEGF-mediated angiogenesis. Journal of Clinical Investigation, 2005, 115, 2119-2127.	8.2	341
32	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, 2236-2243.	8.2	338
33	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, 866-873.	4.5	325
34	Direct evidence for the role of caveolin-1 and caveolae in mechanotransduction and remodeling of blood vessels. Journal of Clinical Investigation, 2006, 116, 1284-1291.	8.2	318
35	Regulation of survivin function by Hsp90. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 13791-13796.	7.1	311
36	Impaired endothelial nitric oxide synthase activity associated with enhanced caveolin binding in experimental cirrhosis in the rat. Gastroenterology, 1999, 117, 1222-1228.	1.3	307

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37	Liver sinusoidal endothelial cells are responsible for nitric oxide modulation of resistance in the hepatic sinusoids.. Journal of Clinical Investigation, 1997, 100, 2923-2930.	8.2	295
38	Src Kinase Mediates Phosphatidylinositol 3-Kinase/Akt-dependent Rapid Endothelial Nitric-oxide Synthase Activation by Estrogen. Journal of Biological Chemistry, 2003, 278, 2118-2123.	3.4	292
39	Cyclic strain upregulates nitric oxide synthase in cultured bovine aortic endothelial cells.. Journal of Clinical Investigation, 1995, 96, 1449-1454.	8.2	291
40	Caveolae and Caveolins in the Cardiovascular System. Circulation Research, 2004, 94, 1408-1417.	4.5	289
41	Heat Shock Protein 90 Mediates the Balance of Nitric Oxide and Superoxide Anion from Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 2001, 276, 17621-17624.	3.4	288
42	Akt-Mediated Phosphorylation of the G Protein-Coupled Receptor EDG-1 Is Required for Endothelial Cell Chemotaxis. Molecular Cell, 2001, 8, 693-704.	9.7	286
43	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, 10999-11004.	7.1	286
44	Reconstitution of an Endothelial Nitric-oxide Synthase (eNOS), hsp90, and Caveolin-1 Complex in Vitro. Journal of Biological Chemistry, 2000, 275, 22268-22272.	3.4	284
45	Caveolin regulation of endothelial function. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2003, 285, L1179-L1183.	2.9	262
46	Bacterial infection induces nitric oxide synthase in human neutrophils.. Journal of Clinical Investigation, 1997, 99, 110-116.	8.2	261
47	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, 30359-30365.	3.4	253
48	Loss of Akt1 Leads to Severe Atherosclerosis and Occlusive Coronary Artery Disease. Cell Metabolism, 2007, 6, 446-457.	16.2	253
49	Caveolae, caveolins, and cavins: complex control of cellular signalling and inflammation. Cardiovascular Research, 2010, 86, 219-225.	3.8	251
50	Sphingosine 1-Phosphate Activates Akt, Nitric Oxide Production, and Chemotaxis through a GiProtein/Phosphoinositide 3-Kinase Pathway in Endothelial Cells. Journal of Biological Chemistry, 2001, 276, 19672-19677.	3.4	244
51	MicroRNAs Are Necessary for Vascular Smooth Muscle Growth, Differentiation, and Function. Arteriosclerosis, Thrombosis, and Vascular Biology, 2010, 30, 1118-1126.	2.4	238
52	Selective inhibition of tumor microvascular permeability by cavtratin blocks tumor progression in mice. Cancer Cell, 2003, 4, 31-39.	16.8	234
53	The Golgi Association of Endothelial Nitric Oxide Synthase Is Necessary for the Efficient Synthesis of Nitric Oxide. Journal of Biological Chemistry, 1995, 270, 17641-17644.	3.4	232
54	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, 19777-19782.	7.1	232

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55	Palmitoylation of Endothelial Nitric Oxide Synthase Is Necessary for Optimal Stimulated Release of Nitric Oxide:Â Implications for Caveolae Localizationâ€. Biochemistry, 1996, 35, 13277-13281.	2.5	228
56	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, 2373-2382.	8.5	224
57	A new role for Nogo as a regulator of vascular remodeling. Nature Medicine, 2004, 10, 382-388.	30.7	220
58	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, 44719-44726.	3.4	219
59	Reduced Gene Expression of Vascular Endothelial NO Synthase and Cyclooxygenase-1 in Heart Failure. Circulation Research, 1996, 78, 58-64.	4.5	219
60	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, 14841-14849.	3.4	214
61	Functional Analysis of the Human Endothelial Nitric Oxide Synthase Promoter. Journal of Biological Chemistry, 1995, 270, 15320-15326.	3.4	212
62	Distinction between signaling mechanisms in lipid rafts vs. caveolae. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 14072-14077.	7.1	210
63	Inflammation and the Blood Microvascular System. Cold Spring Harbor Perspectives in Biology, 2015, 7, a016345.	5.5	200
64	The Role of Nogo and the Mitochondriaâ€“Endoplasmic Reticulum Unit in Pulmonary Hypertension. Science Translational Medicine, 2011, 3, 88ra55.	12.4	193
65	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, 4277-4284.	3.4	189
66	Acute modulation of endothelial Akt/PKB activity alters nitric oxideâ€“dependent vasomotor activity in vivo. Journal of Clinical Investigation, 2000, 106, 493-499.	8.2	186
67	The biosynthesis of endothelin-1 by human polymorphonuclear leukocytes. Biochemical and Biophysical Research Communications, 1991, 174, 613-618.	2.1	179
68	Suppression of Vascular Endothelial Growth Factor-Mediated Endothelial Cell Protection by Survivin Targeting. American Journal of Pathology, 2001, 158, 1757-1765.	3.8	177
69	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, 761-766.	7.1	177
70	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, 1525-1535.	5.2	176
71	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-G987.	3.4	176
72	Prohibitin-1 maintains the angiogenic capacity of endothelial cells by regulating mitochondrial function and senescence. Journal of Cell Biology, 2008, 180, 101-112.	5.2	175

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73	Mutation of N-myristoylation site converts endothelial cell nitric oxide synthase from a membrane to a cytosolic protein.. Circulation Research, 1993, 72, 921-924.	4.5	173
74	Endothelial nitric oxide synthase: the Cinderella of inflammation?. Trends in Pharmacological Sciences, 2003, 24, 91-95.	8.7	167
75	Estrogen Stimulates Heat Shock Protein 90 Binding to Endothelial Nitric Oxide Synthase in Human Vascular Endothelial Cells. Journal of Biological Chemistry, 2000, 275, 5026-5030.	3.4	166
76	Molecular control of nitric oxide synthases in the cardiovascular system. Cardiovascular Research, 1999, 43, 509-520.	3.8	164
77	Cell-permeable peptides improve cellular uptake and therapeutic gene delivery of replication-deficient viruses in cells and in vivo. Nature Medicine, 2003, 9, 357-362.	30.7	163
78	Lacteal junction zippering protects against diet-induced obesity. Science, 2018, 361, 599-603.	12.6	162
79	Hsp90â€“Akt phosphorylates ASK1 and inhibits ASK1-mediated apoptosis. Oncogene, 2005, 24, 3954-3963.	5.9	161
80	Perivascular nitric oxide gradients normalize tumor vasculature. Nature Medicine, 2008, 14, 255-257.	30.7	161
81	Characterization of Bovine Endothelial Nitric Oxide Synthase Expressed inE. coli. Biochemical and Biophysical Research Communications, 1996, 219, 359-365.	2.1	160
82	miRNAs as Modulators of Angiogenesis. Cold Spring Harbor Perspectives in Medicine, 2013, 3, a006643-a006643.	6.2	155
83	Genetic Evidence Supporting a Critical Role of Endothelial Caveolin-1 during the Progression of Atherosclerosis. Cell Metabolism, 2009, 10, 48-54.	16.2	152
84	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, 159-165.	3.7	151
85	Acidic Hydrolysis as a Mechanism for the Cleavage of the Glu298 â†' Asp Variant of Human Endothelial Nitric-oxide Synthase. Journal of Biological Chemistry, 2001, 276, 26674-26679.	3.4	151
86	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, 204-209.	7.1	150
87	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, 14552-14557.	7.1	147
88	Identification of Golgi-localized acyl transferases that palmitoylate and regulate endothelial nitric oxide synthase. Journal of Cell Biology, 2006, 174, 369-377.	5.2	146
89	The phosphorylation state of eNOS modulates vascular reactivity and outcome of cerebral ischemia in vivo. Journal of Clinical Investigation, 2007, 117, 1961-1967.	8.2	143
90	VEGF-Induced Expression of miR-17â€“92 Cluster in Endothelial Cells Is Mediated by ERK/ELK1 Activation and Regulates Angiogenesis. Circulation Research, 2016, 118, 38-47.	4.5	141

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91	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, 904-908.	7.1	140
92	CCM3 signaling through sterile 20â€“like kinases plays an essential role during zebrafish cardiovascular development and cerebral cavernous malformations. Journal of Clinical Investigation, 2010, 120, 2795-2804.	8.2	139
93	PI3 kinase inhibition improves vascular malformations in mouse models of hereditary haemorrhagic telangiectasia. Nature Communications, 2016, 7, 13650.	12.8	136
94	Antifibrotic properties of caveolin-1 scaffolding domain in vitro and in vivo. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2008, 294, L843-L861.	2.9	135
95	Inhibitor of apoptosis protein survivin regulates vascular injury. Nature Medicine, 2002, 8, 987-994.	30.7	134
96	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, 2033-2040.	2.4	133
97	Genetic Evidence Supporting Caveolae Microdomain Regulation of Calcium Entry in Endothelial Cells. Journal of Biological Chemistry, 2007, 282, 16631-16643.	3.4	132
98	Endothelial-Specific Expression of Mitochondrial Thioredoxin Improves Endothelial Cell Function and Reduces Atherosclerotic Lesions. American Journal of Pathology, 2007, 170, 1108-1120.	3.8	130
99	Caveolin-1â€“Deficient Mice Have Increased Tumor Microvascular Permeability, Angiogenesis, and Growth. Cancer Research, 2007, 67, 2849-2856.	0.9	129
100	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, 10997-11002.	7.1	128
101	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, 12333-12340.	2.5	126
102	Endothelial glucocorticoid receptor is required for protection against sepsis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 306-311.	7.1	125
103	Differential Functions of Tumor Necrosis Factor Receptor 1 and 2 Signaling in Ischemia-Mediated Arteriogenesis and Angiogenesis. American Journal of Pathology, 2006, 169, 1886-1898.	3.8	123
104	Transduction of the liver with activated Akt normalizes portal pressure in cirrhotic rats. Gastroenterology, 2003, 125, 522-531.	1.3	121
105	Endothelial Akt1 mediates angiogenesis by phosphorylating multiple angiogenic substrates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 12865-12870.	7.1	120
106	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, 30349-30357.	3.4	119
107	Smooth Muscle miRNAs Are Critical for Post-Natal Regulation of Blood Pressure and Vascular Function. PLoS ONE, 2011, 6, e18869.	2.5	116
108	Role of endothelial nitric oxide synthase in endothelial activation: insights from eNOS knockout endothelial cells. American Journal of Physiology - Cell Physiology, 2004, 286, C1195-C1202.	4.6	115

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109	Genome-wide RNAi screen reveals ALK1 mediates LDL uptake and transcytosis in endothelial cells. Nature Communications, 2016, 7, 13516.	12.8	115
110	The Sonic Hedgehog Receptor Patched Associates with Caveolin-1 in Cholesterol-rich Microdomains of the Plasma Membrane. Journal of Biological Chemistry, 2001, 276, 19503-19511.	3.4	114
111	eNOS derived nitric oxide regulates endothelial barrier function via VE cadherin and Rho GTPases. Journal of Cell Science, 2013, 126, 5541-52.	2.0	112
112	Functional Reconstitution of Endothelial Nitric Oxide Synthase Reveals the Importance of Serine 1179 in Endothelium-Dependent Vasomotion. Circulation Research, 2002, 90, 904-910.	4.5	110
113	Venous Identity Is Lost but Arterial Identity Is Not Gained During Vein Graft Adaptation. Arteriosclerosis, Thrombosis, and Vascular Biology, 2007, 27, 1562-1571.	2.4	110
114	Endothelial NOS: perspective and recent developments. British Journal of Pharmacology, 2019, 176, 189-196.	5.4	110
115	A noninhibitory mutant of the caveolin-1 scaffolding domain enhances eNOS-derived NO synthesis and vasodilation in mice. Journal of Clinical Investigation, 2011, 121, 3747-3755.	8.2	105
116	Trafficking of Endothelial Nitric-oxide Synthase in Living Cells. Journal of Biological Chemistry, 1999, 274, 22524-22531.	3.4	104
117	Mutation of Nogo-B Receptor, a Subunit of cis-Prenyltransferase, Causes a Congenital Disorder of Glycosylation. Cell Metabolism, 2014, 20, 448-457.	16.2	104
118	Nogo-B receptor is necessary for cellular dolichol biosynthesis and proteinN-glycosylation. EMBO Journal, 2011, 30, 2490-2500.	7.8	102
119	Nitric Oxide in Endothelial Dysfunction and Vascular Remodeling: Clinical Correlates and Experimental Links. American Journal of Human Genetics, 1999, 64, 673-677.	6.2	101
120	Angiopoietinâ€1 negatively regulates expression and activity of tissue factor in endothelial cells. FASEB Journal, 2002, 16, 1-24.	0.5	101
121	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, 11021-11026.	7.1	101
122	Myoferlin Regulates Vascular Endothelial Growth Factor Receptor-2 Stability and Function. Journal of Biological Chemistry, 2007, 282, 30745-30753.	3.4	100
123	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.	1.6	100
124	Endothelial nitric oxide synthase regulates microvascular hyperpermeability in vivo. Journal of Physiology, 2006, 574, 275-281.	2.9	99
125	Direct Interaction between Endothelial Nitric-oxide Synthase and Dynamin-2. Journal of Biological Chemistry, 2001, 276, 14249-14256.	3.4	97
126	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, 6511-6516.	7.1	97

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127	Lipid Droplet Biogenesis and Function in the Endothelium. Circulation Research, 2017, 120, 1289-1297.	4.5	97
128	Thrombospondin-2 Modulates Extracellular Matrix Remodeling during Physiological Angiogenesis. American Journal of Pathology, 2008, 173, 879-891.	3.8	95
129	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, 1521-1527.	2.4	94
130	Chaperone-dependent Regulation of Endothelial Nitric-oxide Synthase Intracellular Trafficking by the Co-chaperone/Ubiquitin Ligase CHIP. Journal of Biological Chemistry, 2003, 278, 49332-49341.	3.4	94
131	Inhibition of MicroRNA-29 Enhances Elastin Levels in Cells Haploinsufficient for Elastin and in Bioengineered Vesselsâ€"Brief Report. Arteriosclerosis, Thrombosis, and Vascular Biology, 2012, 32, 756-759.	2.4	94
132	Endothelial Nitric Oxide Synthase Regulates Microlymphatic Flow via Collecting Lymphatics. Circulation Research, 2004, 95, 204-209.	4.5	91
133	Endothelial-Specific Overexpression of Caveolin-1 Accelerates Atherosclerosis in Apolipoprotein E-Deficient Mice. American Journal of Pathology, 2010, 177, 998-1003.	3.8	91
134	T cellâ€"mediated vascular dysfunction of human allografts results from IFN-Î³ dysregulation of NO synthase. Journal of Clinical Investigation, 2004, 114, 846-856.	8.2	90
135	Regulation of endothelial derived nitric oxide in health and disease. Memorias Do Instituto Oswaldo Cruz, 2005, 100, 15-18.	1.6	90
136	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, 2219-2225.	2.4	89
137	Endothelial Transcytosis of Lipoproteins in Atherosclerosis. Frontiers in Cardiovascular Medicine, 2018, 5, 130.	2.4	88
138	SMAD4 Prevents Flow Induced Arteriovenous Malformations by Inhibiting Casein Kinase 2. Circulation, 2018, 138, 2379-2394.	1.6	88
139	Functional Relevance of Golgi- and Plasma Membrane-Localized Endothelial NO Synthase in Reconstituted Endothelial Cells. Arteriosclerosis, Thrombosis, and Vascular Biology, 2006, 26, 1015-1021.	2.4	87
140	Codistribution of NOS and caveolin throughout peripheral vasculature and skeletal muscle of hamsters. American Journal of Physiology - Heart and Circulatory Physiology, 1999, 277, H1167-H1177.	3.2	86
141	Endothelial NO synthase phosphorylated at SER635 produces NO without requiring intracellular calcium increase. Free Radical Biology and Medicine, 2003, 35, 729-741.	2.9	86
142	Role of prostaglandin D ₂ 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, 20009-20014.	7.1	86
143	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, 231-242.	2.1	85
144	PKCÎ± Activates eNOS and Increases Arterial Blood Flow In Vivo. Circulation Research, 2005, 97, 482-487.	4.5	85

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145	Vasomotor control in arterioles of the mouse cremaster muscle. FASEB Journal, 2000, 14, 197-207.	0.5	84
146	The Akt1-eNOS Axis Illustrates the Specificity of Kinase-Substrate Relationships in Vivo. Science Signaling, 2009, 2, ra41.	3.6	84
147	Simvastatin upregulates coronary vascular endothelial nitric oxide production in conscious dogs. American Journal of Physiology - Heart and Circulatory Physiology, 2000, 279, H2649-H2657.	3.2	82
148	The phosphodiesterase 5 inhibitor sildenafil stimulates angiogenesis through a protein kinase G/MAPK pathway. Journal of Cellular Physiology, 2007, 211, 197-204.	4.1	82
149	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, 17511-17516.	7.1	82
150	Molecular control of blood flow and angiogenesis: role of nitric oxide. Journal of Thrombosis and Haemostasis, 2009, 7, 35-37.	3.8	82
151	Mesenteric vasoconstriction triggers nitric oxide overproduction in the superior mesenteric artery of portal hypertensive rats. Gastroenterology, 2003, 125, 1452-1461.	1.3	79
152	Angiopoietin-2 Secretion by Endothelial Cell Exosomes. Journal of Biological Chemistry, 2014, 289, 510-519.	3.4	79
153	Intracellular location regulates calcium-calmodulin-dependent activation of organelle-restricted eNOS. American Journal of Physiology - Cell Physiology, 2005, 289, C1024-C1033.	4.6	78
154	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, 368-373.	2.1	78
155	Mice with targeted deletion of eNOS develop hyperdynamic circulation associated with portal hypertension. American Journal of Physiology - Renal Physiology, 2002, 283, G1074-G1081.	3.4	77
156	NO overproduction by eNOS precedes hyperdynamic splanchnic circulation in portal hypertensive rats. American Journal of Physiology - Renal Physiology, 1999, 276, G1043-G1051.	3.4	76
157	Phosphorylation of eNOS initiates excessive NO production in early phases of portal hypertension. American Journal of Physiology - Heart and Circulatory Physiology, 2002, 282, H2084-H2090.	3.2	75
158	Variant estrogen receptorâ€“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, 16468-16473.	7.1	75
159	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.	2.4	75
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