Michelle P Bendeck

List of Publications by Year
in descending order

55 papers	2,828 citations	186265 28 h-index	214800 47 g-index
55 all docs	55 docs citations	55 times ranked	3119 citing authors

#	Article	IF	Citations
1	Matrix metalloproteinases of vascular wall cells are increased in balloon-injured rat carotid artery. Journal of Vascular Surgery, 1994, 20, 209-217.	1.1	252
2	Inhibition of Matrix Metalloproteinase Activity Inhibits Smooth Muscle Cell Migration but Not Neointimal Thickening After Arterial Injury. Circulation Research, 1996, 78, 38-43.	4.5	239
3	Role of Nitric Oxide in the Angiogenic Response In Vitro to Basic Fibroblast Growth Factor. Circulation Research, 1998, 82, 1007-1015.	4.5	192
4	The discoidin domain receptor tyrosine kinase DDR1 in arterial wound repair. Journal of Clinical Investigation, 2001, 107, 727-735.	8.2	189
5	Collagens in the progression and complications of atherosclerosis. Vascular Medicine, 2009, 14, 73-89.	1.5	188
6	Doxycycline Modulates Smooth Muscle Cell Growth, Migration, and Matrix Remodeling after Arterial Injury. American Journal of Pathology, 2002, 160, 1089-1095.	3.8	186
7	Tyrosine Kinase Activity of Discoidin Domain Receptor 1 Is Necessary for Smooth Muscle Cell Migration and Matrix Metalloproteinase Expression. Circulation Research, 2002, 90, 1147-1149.	4.5	136
8	Discoidin Domain Receptor 1 (Ddr1) Deletion Decreases Atherosclerosis by Accelerating Matrix Accumulation and Reducing Inflammation in Low-Density Lipoprotein Receptorâ€"Deficient Mice. Circulation Research, 2008, 102, 1202-1211.	4.5	101
9	Smooth Muscle Cell Matrix Metalloproteinase Production Is Stimulated via Î± _v Î² ₃ Integrin. Arteriosclerosis, Thrombosis, and Vascular Biology, 2000, 20, 1467-1472.	2.4	95
10	Discoidin Domain Receptor 1 on Bone Marrowâ€"Derived Cells Promotes Macrophage Accumulation During Atherogenesis. Circulation Research, 2009, 105, 1141-1148.	4.5	75
11	N-Cadherin Upregulation and Function in Response of Smooth Muscle Cells to Arterial Injury. Arteriosclerosis, Thrombosis, and Vascular Biology, 2002, 22, 1972-1977.	2.4	63
12	Role of smooth muscle cells in coronary artery bypass grafting failure. Cardiovascular Research, 2018, 114, 601-610.	3.8	63
13	Differential Expression of Î± ₁ Type VIII Collagen in Injured Platelet-Derived Growth Factor-BBâ€"Stimulated Rat Carotid Arteries. Circulation Research, 1996, 79, 524-531.	4.5	62
14	Protein Kinase A-regulated Assembly of a MEF2Â·HDAC4 Repressor Complex Controls c-Jun Expression in Vascular Smooth Muscle Cells. Journal of Biological Chemistry, 2009, 284, 19027-19042.	3.4	61
15	Increased Cell and Matrix Accumulation During Atherogenesis in Mice With Vessel Wallâ€"Specific Deletion of Discoidin Domain Receptor 1. Circulation Research, 2010, 106, 1775-1783.	4.5	59
16	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor-Î² Signaling. Arteriosclerosis, Thrombosis, and Vascular Biology, 2016, 36, 525-533.	2.4	58
17	Collagen stimulates discoidin domain receptor 1-mediated migration of smooth muscle cells through Src. Cardiovascular Pathology, 2011, 20, 71-76.	1.6	57
18	Discoidin Domain Receptor-1 Deficiency Attenuates Atherosclerotic Calcification and Smooth Muscle Cell-Mediated Mineralization. American Journal of Pathology, 2009, 175, 2686-2696.	3.8	51

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19	A Nonantibiotic Chemically Modified Tetracycline (CMT-3) Inhibits Intimal Thickening. American Journal of Pathology, 2003, 163, 1557-1566.	3.8	46
20	Homotypic and Endothelial Cell Adhesions via N-Cadherin Determine Polarity and Regulate Migration of Vascular Smooth Muscle Cells. Circulation Research, 2008, 103, 405-412.	4.5	46
21	Interactions between the discoidin domain receptor 1 and Î²1 integrin regulate attachment to collagen. Biology Open, 2013, 2, 1148-1159.	1.2	44
22	Cell-Matrix Interactions and Matricrine Signaling in the Pathogenesis of Vascular Calcification. Frontiers in Cardiovascular Medicine, 2018, 5, 174.	2.4	43
23	Diabetic Vascular Calcification Mediated by the Collagen Receptor Discoidin Domain Receptor 1 via the Phosphoinositide 3-Kinase/Akt/Runt-Related Transcription Factor 2 Signaling Axis. Arteriosclerosis, Thrombosis, and Vascular Biology, 2018, 38, 1878-1889.	2.4	43
24	Collagens, Integrins, and the Discoidin Domain Receptors in Arterial Occlusive Disease. Trends in Cardiovascular Medicine, 2002, 12, 143-148.	4.9	38
25	Deriving vascular smooth muscle cells from mesenchymal stromal cells: Evolving differentiation strategies and current understanding of their mechanisms. Biomaterials, 2017, 145, 9-22.	11.4	38
26	Smooth muscle cell-specific deletion of Col15a1 unexpectedly leads to impaired development of advanced atherosclerotic lesions. American Journal of Physiology - Heart and Circulatory Physiology, 2017, 312, H943-H958.	3.2	34
27	Type VIII collagen signals via Î²1 integrin and RhoA to regulate MMP-2 expression and smooth muscle cell migration. Matrix Biology, 2013, 32, 332-341.	3.6	33
28	Inward Remodeling of the Rabbit Aorta Is Blocked by the Matrix Metalloproteinase Inhibitor Doxycycline. Journal of Vascular Research, 2004, 41, 157-165.	1.4	29
29	Rear Polarization of the Microtubule-Organizing Center in Neointimal Smooth Muscle Cells Depends on PKCÎ±, ARPC5, and RHAMM. American Journal of Pathology, 2011, 178, 895-910.	3.8	29
30	Matrix Metalloproteinases. Circulation Research, 2002, 90, 836-837.	4.5	28
31	The Î²3 Integrin Antagonist m7E3 Reduces Matrix Metalloproteinase Activity and Smooth Muscle Cell Migration. Journal of Vascular Research, 2001, 38, 590-599.	1.4	25
32	Integrin-Linked Kinase in the Vascular Smooth Muscle Cell Response to Injury. American Journal of Pathology, 2008, 173, 278-288.	3.8	25
33	Biochemical analysis of collagen and elastin synthesis in the balloon injured rat carotid artery. Cardiovascular Pathology, 2002, 11, 272-276.	1.6	24
34	DDR1 (Discoidin Domain Receptor-1)-RhoA (Ras Homolog Family Member A) Axis Senses Matrix Stiffness to Promote Vascular Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2020, 40, 1763-1776.	2.4	24
35	Interleukin-1Î² Is a Key Biomarker and Mediator of Inflammatory Vascular Calcification. Arteriosclerosis, Thrombosis, and Vascular Biology, 2017, 37, 179-180.	2.4	23
36	Deletion of discoidin domain receptor 2 does not affect smooth muscle cell adhesion, migration, or proliferation in response to type I collagen. Cardiovascular Pathology, 2012, 21, 214-218.	1.6	20

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37	The effect of insulin to decrease neointimal growth after arterial injury is endothelial nitric oxide synthase-dependent. Atherosclerosis, 2015, 241, 111-120.	0.8	20
38	Cell Division Fidelity Is Altered during the Vascular Response to Injury. American Journal of Pathology, 2013, 182, 628-639.	3.8	16
39	SMC-Derived Hyaluronan Modulates Vascular SMC Phenotype in Murine Atherosclerosis. Circulation Research, 2021, 129, 992-1005.	4.5	12
40	Stiffness-responsive feedback autoregulation of DDR1 expression is mediated by a DDR1-YAP/TAZ axis. Matrix Biology, 2022, 110, 129-140.	3.6	11
41	In vivo Effect of Insulin to Decrease Matrix Metalloproteinase-2 and -9 Activity after Arterial Injury. Journal of Vascular Research, 2013, 50, 279-288.	1.4	10
42	Discoidin domain receptor 1-deletion ameliorates fibrosis and promotes adipose tissue beiging, brown fat activity, and increased metabolic rate in a mouse model of cardiometabolic disease. Molecular Metabolism, 2020, 39, 101006.	6.5	10
43	Spectrin alpha is important for rear polarization of the microtubule organizing center during migration and spindle pole assembly during division of neointimal smooth muscle cells. Cytoskeleton, 2015, 72, 157-170.	2.0	8
44	Discoidin domain receptor 1 deficiency in vascular smooth muscle cells leads to mislocalization of N-cadherin contacts. Biology Open, 2019, 8, .	1.2	8
45	Insulin decreases atherosclerotic plaque burden and increases plaque stability via nitric oxide synthase in apolipoprotein E-null mice. American Journal of Physiology - Endocrinology and Metabolism, 2016, 311, E335-E345.	3.5	7
46	Deletion of type VIII collagen reduces blood pressure, increases carotid artery functional distensibility and promotes elastin deposition. Matrix Biology Plus, 2021, 12, 100085.	3.5	6
47	Matrix, matrix metalloproteinases and smooth muscle cell function in atherosclerosis. International Congress Series, 2004, 1262, 486-489.	0.2	1
48	B. Lowell Langille (1947â€“2008). Circulation Research, 2009, 104, 561-562.	4.5	0
49	5.4 Discoidin domain receptors: non-integrin collagen receptors on the move. , 0, , .		0
50	Reduced atherosclerotic plaque burden in mice with targeted deletion of the discoidin domain receptor 1 (DDR1) gene. FASEB Journal, 2006, 20, A12.	0.5	0
51	Signaling Mechanism for Discoidin Domain Receptor 1 Mediated Smooth Muscle Cell Migration. FASEB Journal, 2007, 21, A68.	0.5	0
52	DDR1: a novel regulator of intimal calcification. FASEB Journal, 2008, 22, 174.6.	0.5	0
53	The Role of DDRs in Atherosclerosis. , 2016, , 315-330.		0
54	Extracellular matrix dynamics and contribution to vascular pathologies. , 2022, , 287-300.		0

#	Article	IF	Citations
55	Vascular Pathobiology: Atherosclerosis and Large Vessel Disease. , 2022, , 265-306.		0