Michelle P Bendeck

List of Publications by Year in Descending Order

51 papers	2,354 citations	27 h-index	48 g-index
55 ext. papers	2,587 ext. citations	7.7 avg, IF	4.65 L-index

#	Paper	IF	Citations
51	Extracellular matrix dynamics and contribution to vascular pathologies **2022**, 287-300		
50	Vascular Pathobiology: Atherosclerosis and Large Vessel Disease **2022**, 265-306		
49	SMC-Derived Hyaluronan Modulates Vascular SMC Phenotype in Murine Atherosclerosis. *Circulation Research*, **2021**, 129, 992-1005	15.7	0
48	Deletion of type VIII collagen reduces blood pressure, increases carotid artery functional distensibility and promotes elastin deposition. *Matrix Biology Plus*, **2021**, 12, 100085	5.1	0
47	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	8.8	5
46	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	9.4	11
45	Discoidin domain receptor 1 deficiency in vascular smooth muscle cells leads to mislocalisation of N-cadherin contacts. *Biology Open*, **2019**, 8,	2.2	4
44	Role of smooth muscle cells in coronary artery bypass grafting failure. *Cardiovascular Research*, **2018**, 114, 601-610	9.9	44
43	Cell-Matrix Interactions and Matricrine Signaling in the Pathogenesis of Vascular Calcification. *Frontiers in Cardiovascular Medicine*, **2018**, 5, 174	5.4	24
42	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	9.4	29
41	Smooth muscle cell-specific deletion of unexpectedly leads to impaired development of advanced atherosclerotic lesions. *American Journal of Physiology - Heart and Circulatory Physiology*, **2017**, 312, H943-H958	5.2	23
40	Deriving vascular smooth muscle cells from mesenchymal stromal cells: Evolving differentiation strategies and current understanding of their mechanisms. *Biomaterials*, **2017**, 145, 9-22	15.6	29
39	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, E335-45	6	6
38	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor-β Signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, 525-33	9.4	44
37	The Role of DDRs in Atherosclerosis **2016**, 315-330		
36	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, 157-70	2.4	8
35	The effect of insulin to decrease neointimal growth after arterial injury is endothelial nitric oxide synthase-dependent. *Atherosclerosis*, **2015**, 241, 111-20	3.1	14

34	Type VIII collagen signals via 1 integrin and RhoA to regulate MMP-2 expression and smooth muscle cell migration. *Matrix Biology*, **2013**, 32, 332-41	11.4	27
33	Cell division fidelity is altered during the vascular response to injury: its novel role in atherosclerosis progression. *American Journal of Pathology*, **2013**, 182, 628-39	5.8	14
32	Interactions between the discoidin domain receptor 1 and 1 integrin regulate attachment to collagen. *Biology Open*, **2013**, 2, 1148-59	2.2	34
31	In vivo effect of insulin to decrease matrix metalloproteinase-2 and -9 activity after arterial injury. *Journal of Vascular Research*, **2013**, 50, 279-88	1.9	7
30	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, 214-8	3.8	17
29	Rear polarization of the microtubule-organizing center in neointimal smooth muscle cells depends on PKCARPC5, and RHAMM. *American Journal of Pathology*, **2011**, 178, 895-910	5.8	21
28	Collagen stimulates discoidin domain receptor 1-mediated migration of smooth muscle cells through Src. *Cardiovascular Pathology*, **2011**, 20, 71-6	3.8	46
27	Increased cell and matrix accumulation during atherogenesis in mice with vessel wall-specific deletion of discoidin domain receptor 1. *Circulation Research*, **2010**, 106, 1775-83	15.7	49
26	Discoidin domain receptor 1 on bone marrow-derived cells promotes macrophage accumulation during atherogenesis. *Circulation Research*, **2009**, 105, 1141-8	15.7	61
25	Protein kinase A-regulated assembly of a MEF2{middle dot}HDAC4 repressor complex controls c-Jun expression in vascular smooth muscle cells. *Journal of Biological Chemistry*, **2009**, 284, 19027-42	5.4	56
24	Collagens in the progression and complications of atherosclerosis. *Vascular Medicine*, **2009**, 14, 73-89	3.3	163
23	Discoidin domain receptor-1 deficiency attenuates atherosclerotic calcification and smooth muscle cell-mediated mineralization. *American Journal of Pathology*, **2009**, 175, 2686-96	5.8	39
22	Integrin-linked kinase in the vascular smooth muscle cell response to injury. *American Journal of Pathology*, **2008**, 173, 278-88	5.8	25
21	Homotypic and endothelial cell adhesions via N-cadherin determine polarity and regulate migration of vascular smooth muscle cells. *Circulation Research*, **2008**, 103, 405-12	15.7	35
20	Discoidin domain receptor 1 (ddr1) deletion decreases atherosclerosis by accelerating matrix accumulation and reducing inflammation in low-density lipoprotein receptor-deficient mice. *Circulation Research*, **2008**, 102, 1202-11	15.7	84
19	DDR1: a novel regulator of intimal calcification. *FASEB Journal*, **2008**, 22, 174.6	0.9	
18	Signaling Mechanism for Discoidin Domain Receptor 1 Mediated Smooth Muscle Cell Migration. *FASEB Journal*, **2007**, 21, A68	0.9	
17	Reduced atherosclerotic plaque burden in mice with targeted deletion of the discoidin domain receptor 1 (DDR1) gene. *FASEB Journal*, **2006**, 20, A12	0.9	

16	Inward remodeling of the rabbit aorta is blocked by the matrix metalloproteinase inhibitor doxycycline. *Journal of Vascular Research*, **2004**, 41, 157-65	1.9	29
15	Matrix, matrix metalloproteinases and smooth muscle cell function in atherosclerosis. *International Congress Series*, **2004**, 1262, 486-489		1
14	A nonantibiotic chemically modified tetracycline (CMT-3) inhibits intimal thickening. *American Journal of Pathology*, **2003**, 163, 1557-66	5.8	44
13	Collagens, integrins, and the discoidin domain receptors in arterial occlusive disease. *Trends in Cardiovascular Medicine*, **2002**, 12, 143-8	6.9	31
12	N-cadherin upregulation and function in response of smooth muscle cells to arterial injury. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2002**, 22, 1972-7	9.4	49
11	Matrix metalloproteinases: are they antiatherogenic but proaneurysmal?. *Circulation Research*, **2002**, 90, 836-7	15.7	27
10	Tyrosine kinase activity of discoidin domain receptor 1 is necessary for smooth muscle cell migration and matrix metalloproteinase expression. *Circulation Research*, **2002**, 90, 1147-9	15.7	124
9	Doxycycline modulates smooth muscle cell growth, migration, and matrix remodeling after arterial injury. *American Journal of Pathology*, **2002**, 160, 1089-95	5.8	179
8	Biochemical analysis of collagen and elastin synthesis in the balloon injured rat carotid artery. *Cardiovascular Pathology*, **2002**, 11, 272-6	3.8	21
7	The beta3 integrin antagonist m7E3 reduces matrix metalloproteinase activity and smooth muscle cell migration. *Journal of Vascular Research*, **2001**, 38, 590-9	1.9	23
6	The discoidin domain receptor tyrosine kinase DDR1 in arterial wound repair. *Journal of Clinical Investigation*, **2001**, 107, 727-35	15.9	157
5	Smooth muscle cell matrix metalloproteinase production is stimulated via alpha(v)beta(3) integrin. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2000**, 20, 1467-72	9.4	92
4	Role of nitric oxide in the angiogenic response in vitro to basic fibroblast growth factor. *Circulation Research*, **1998**, 82, 1007-15	15.7	172
3	Inhibition of matrix metalloproteinase activity inhibits smooth muscle cell migration but not neointimal thickening after arterial injury. *Circulation Research*, **1996**, 78, 38-43	15.7	196
2	Differential expression of alpha 1 type VIII collagen in injured platelet-derived growth factor-BB--stimulated rat carotid arteries. *Circulation Research*, **1996**, 79, 524-31	15.7	47
1	Matrix metalloproteinases of vascular wall cells are increased in balloon-injured rat carotid artery. *Journal of Vascular Surgery*, **1994**, 20, 209-17	3.5	230