

Michelle P Bendeck

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Matrix metalloproteinases of vascular wall cells are increased in balloon-injured rat carotid artery. <i>Journal of Vascular Surgery</i> , 1994 , 20, 209-17	3.5	230
50	Inhibition of matrix metalloproteinase activity inhibits smooth muscle cell migration but not neointimal thickening after arterial injury. <i>Circulation Research</i> , 1996 , 78, 38-43	15.7	196
49	Doxycycline modulates smooth muscle cell growth, migration, and matrix remodeling after arterial injury. <i>American Journal of Pathology</i> , 2002 , 160, 1089-95	5.8	179
48	Role of nitric oxide in the angiogenic response in vitro to basic fibroblast growth factor. <i>Circulation Research</i> , 1998 , 82, 1007-15	15.7	172
47	Collagens in the progression and complications of atherosclerosis. <i>Vascular Medicine</i> , 2009 , 14, 73-89	3.3	163
46	The discoidin domain receptor tyrosine kinase DDR1 in arterial wound repair. <i>Journal of Clinical Investigation</i> , 2001 , 107, 727-35	15.9	157
45	Tyrosine kinase activity of discoidin domain receptor 1 is necessary for smooth muscle cell migration and matrix metalloproteinase expression. <i>Circulation Research</i> , 2002 , 90, 1147-9	15.7	124
44	Smooth muscle cell matrix metalloproteinase production is stimulated via alpha(v)beta(3) integrin. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2000 , 20, 1467-72	9.4	92
43	Discoidin domain receptor 1 (ddr1) deletion decreases atherosclerosis by accelerating matrix accumulation and reducing inflammation in low-density lipoprotein receptor-deficient mice. <i>Circulation Research</i> , 2008 , 102, 1202-11	15.7	84
42	Discoidin domain receptor 1 on bone marrow-derived cells promotes macrophage accumulation during atherogenesis. <i>Circulation Research</i> , 2009 , 105, 1141-8	15.7	61
41	Protein kinase A-regulated assembly of a MEF2{middle dot}HDAC4 repressor complex controls c-Jun expression in vascular smooth muscle cells. <i>Journal of Biological Chemistry</i> , 2009 , 284, 19027-42	5.4	56
40	Increased cell and matrix accumulation during atherogenesis in mice with vessel wall-specific deletion of discoidin domain receptor 1. <i>Circulation Research</i> , 2010 , 106, 1775-83	15.7	49
39	N-cadherin upregulation and function in response of smooth muscle cells to arterial injury. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2002 , 22, 1972-7	9.4	49
38	Differential expression of alpha 1 type VIII collagen in injured platelet-derived growth factor-BB--stimulated rat carotid arteries. <i>Circulation Research</i> , 1996 , 79, 524-31	15.7	47
37	Collagen stimulates discoidin domain receptor 1-mediated migration of smooth muscle cells through Src. <i>Cardiovascular Pathology</i> , 2011 , 20, 71-6	3.8	46
36	Role of smooth muscle cells in coronary artery bypass grafting failure. <i>Cardiovascular Research</i> , 2018 , 114, 601-610	9.9	44
35	Discoidin Domain Receptor-1 Regulates Calcific Extracellular Vesicle Release in Vascular Smooth Muscle Cell Fibrocalcific Response via Transforming Growth Factor- β Signaling. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2016 , 36, 525-33	9.4	44

34	A nonantibiotic chemically modified tetracycline (CMT-3) inhibits intimal thickening. <i>American Journal of Pathology</i> , 2003 , 163, 1557-66	5.8	44
33	Discoidin domain receptor-1 deficiency attenuates atherosclerotic calcification and smooth muscle cell-mediated mineralization. <i>American Journal of Pathology</i> , 2009 , 175, 2686-96	5.8	39
32	Homotypic and endothelial cell adhesions via N-cadherin determine polarity and regulate migration of vascular smooth muscle cells. <i>Circulation Research</i> , 2008 , 103, 405-12	15.7	35
31	Interactions between the discoidin domain receptor 1 and β 1 integrin regulate attachment to collagen. <i>Biology Open</i> , 2013 , 2, 1148-59	2.2	34
30	Collagens, integrins, and the discoidin domain receptors in arterial occlusive disease. <i>Trends in Cardiovascular Medicine</i> , 2002 , 12, 143-8	6.9	31
29	Deriving vascular smooth muscle cells from mesenchymal stromal cells: Evolving differentiation strategies and current understanding of their mechanisms. <i>Biomaterials</i> , 2017 , 145, 9-22	15.6	29
28	Inward remodeling of the rabbit aorta is blocked by the matrix metalloproteinase inhibitor doxycycline. <i>Journal of Vascular Research</i> , 2004 , 41, 157-65	1.9	29
27	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. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2018 , 38, 1878-1889	9.4	29
26	Type VIII collagen signals via β 1 integrin and RhoA to regulate MMP-2 expression and smooth muscle cell migration. <i>Matrix Biology</i> , 2013 , 32, 332-41	11.4	27
25	Matrix metalloproteinases: are they antiatherogenic but proaneurysmal?. <i>Circulation Research</i> , 2002 , 90, 836-7	15.7	27
24	Integrin-linked kinase in the vascular smooth muscle cell response to injury. <i>American Journal of Pathology</i> , 2008 , 173, 278-88	5.8	25
23	Cell-Matrix Interactions and Matricrine Signaling in the Pathogenesis of Vascular Calcification. <i>Frontiers in Cardiovascular Medicine</i> , 2018 , 5, 174	5.4	24
22	Smooth muscle cell-specific deletion of α 5 β 1 integrin leads to impaired development of advanced atherosclerotic lesions. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2017 , 312, H943-H958	5.2	23
21	The beta3 integrin antagonist m7E3 reduces matrix metalloproteinase activity and smooth muscle cell migration. <i>Journal of Vascular Research</i> , 2001 , 38, 590-9	1.9	23
20	Rear polarization of the microtubule-organizing center in neointimal smooth muscle cells depends on PKC ζ , ARPC5, and RHAMM. <i>American Journal of Pathology</i> , 2011 , 178, 895-910	5.8	21
19	Biochemical analysis of collagen and elastin synthesis in the balloon injured rat carotid artery. <i>Cardiovascular Pathology</i> , 2002 , 11, 272-6	3.8	21
18	Deletion of discoidin domain receptor 2 does not affect smooth muscle cell adhesion, migration, or proliferation in response to type I collagen. <i>Cardiovascular Pathology</i> , 2012 , 21, 214-8	3.8	17
17	The effect of insulin to decrease neointimal growth after arterial injury is endothelial nitric oxide synthase-dependent. <i>Atherosclerosis</i> , 2015 , 241, 111-20	3.1	14

16	Cell division fidelity is altered during the vascular response to injury: its novel role in atherosclerosis progression. <i>American Journal of Pathology</i> , 2013 , 182, 628-39	5.8	14
15	DDR1 (Discoidin Domain Receptor-1)-RhoA (Ras Homolog Family Member A) Axis Senses Matrix Stiffness to Promote Vascular Calcification. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2020 , 40, 1763-1776	9.4	11
14	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. <i>Cytoskeleton</i> , 2015 , 72, 157-70	2.4	8
13	In vivo effect of insulin to decrease matrix metalloproteinase-2 and -9 activity after arterial injury. <i>Journal of Vascular Research</i> , 2013 , 50, 279-88	1.9	7
12	Insulin decreases atherosclerotic plaque burden and increases plaque stability via nitric oxide synthase in apolipoprotein E-null mice. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2016 , 311, E335-45	6	6
11	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. <i>Molecular Metabolism</i> , 2020 , 39, 101006	8.8	5
10	Discoidin domain receptor 1 deficiency in vascular smooth muscle cells leads to mislocalisation of N-cadherin contacts. <i>Biology Open</i> , 2019 , 8,	2.2	4
9	Matrix, matrix metalloproteinases and smooth muscle cell function in atherosclerosis. <i>International Congress Series</i> , 2004 , 1262, 486-489		1
8	SMC-Derived Hyaluronan Modulates Vascular SMC Phenotype in Murine Atherosclerosis. <i>Circulation Research</i> , 2021 , 129, 992-1005	15.7	0
7	Deletion of type VIII collagen reduces blood pressure, increases carotid artery functional distensibility and promotes elastin deposition. <i>Matrix Biology Plus</i> , 2021 , 12, 100085	5.1	0
6	Reduced atherosclerotic plaque burden in mice with targeted deletion of the discoidin domain receptor 1 (DDR1) gene. <i>FASEB Journal</i> , 2006 , 20, A12	0.9	
5	Signaling Mechanism for Discoidin Domain Receptor 1 Mediated Smooth Muscle Cell Migration. <i>FASEB Journal</i> , 2007 , 21, A68	0.9	
4	DDR1: a novel regulator of intimal calcification. <i>FASEB Journal</i> , 2008 , 22, 174.6	0.9	
3	The Role of DDRs in Atherosclerosis 2016 , 315-330		
2	Extracellular matrix dynamics and contribution to vascular pathologies 2022 , 287-300		
1	Vascular Pathobiology: Atherosclerosis and Large Vessel Disease 2022 , 265-306		