# CITATION REPORT List of articles citing

Matrix Metalloproteinases in	Vascular Remodeling and Athe
------------------------------	------------------------------

DOI: 10.1161/res.90.3.251 Circulation Research, 2002, 90, 251-262.

Source: https://exaly.com/paper-pdf/34382390/citation-report.pdf

Version: 2024-04-25

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

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

#	Paper	IF	Citations
1612	Preface. <b>1996</b> , 9, 3-3		
1611	Platelet priming. <b>2001</b> , 53-78		
1610	Targeting pericellular proteolysis in vascular disease. Circulation Research, 2002, 91, 861-2	15.7	4
1609	Differential accumulation of proteoglycans and hyaluronan in culprit lesions: insights into plaque erosion. <b>2002</b> , 22, 1642-8		218
1608	Matrix metalloproteinase-9 expression after myocardial infarction: physiological or pathological?. <b>2002</b> , 54, 495-8		26
1607	Genetic testing for coronary heart disease: the approaching frontier. <b>2002</b> , 2, 448-60		9
1606	Matrix metalloproteinases: are they antiatherogenic but proaneurysmal?. <i>Circulation Research</i> , <b>2002</b> , 90, 836-7	15.7	27
1605	Targeted disruption of the matrix metalloproteinase-9 gene impairs smooth muscle cell migration and geometrical arterial remodeling. <i>Circulation Research</i> , <b>2002</b> , 91, 852-9	15.7	348
1604	Nonremodeling properties of matrix metalloproteinases: the platelet connection. <i>Circulation Research</i> , <b>2002</b> , 90, 1041-3	15.7	54
1603	Genes potentially involved in plaque rupture. <b>2002</b> , 13, 545-52		15
1602	Extracellular matrix changes and vascular smooth muscle signaling. <b>2002</b> , 183-199		
1601	The vulnerable plaque and acute coronary syndromes. <b>2002</b> , 113, 668-80		82
1600	Insulin-dependent activation of endothelial nitric oxide synthase is impaired by O-linked glycosylation modification of signaling proteins in human coronary endothelial cells. <b>2002</b> , 106, 466-72		281
1599	Sarcoidosis: a mysterious tale of inflammation, tissue remodeling, and matrix metalloproteinases. <b>2002</b> , 33, 1155-7		8
1598	Cardiovascular tissue engineering. <b>2002</b> , 11, 305-17		132
1597	Rle de linflammation et de lapoptose dans la rupture de la plaque dathfosclfose. <b>2002</b> , 16, 210-212		
1596	Matrix metalloproteinase inhibitors attenuate endotoxemia induced cardiac dysfunction: A potential role for MMP-9. <b>2003</b> , 251, 61-66		37

1595	Clinical implications of matrix metalloproteinases. <b>2003</b> , 252, 305-29	118
1594	Structure and evolutionary aspects of matrix metalloproteinases: a brief overview. <b>2003</b> , 253, 31-40	49
1593	Cerivastatin: a cellular and molecular drug for the future?. <b>2003</b> , 60, 144-64	7
1592	Premature coronary artery disease shows no evidence of linkage to loci encoding for tissue inhibitors of matrix metalloproteinases. <b>2003</b> , 48, 508-513	2
1591	New insights into elastin and vascular disease. <b>2003</b> , 13, 176-81	122
1590	Radiation-induced atherosclerotic plaque progression in a hypercholesterolemic rabbit: a prospective vulnerable plaque model?. <b>2003</b> , 4, 146-51	31
1589	Pain and the blood-brain barrier: obstacles to drug delivery. <b>2003</b> , 55, 987-1006	47
1588	Intracerebral hemorrhage induces macrophage activation and matrix metalloproteinases. 2003, 53, 731-42	309
1587	Matrix metalloproteinase-9 and spontaneous hemorrhage in an animal model of cerebral amyloid angiopathy. <b>2003</b> , 54, 379-82	93
1586	Increased production of matrix metalloproteinases 1 and 3 by smooth muscle cells upon infection with Chlamydia pneumoniae. <b>2003</b> , 38, 159-64	24
1585	Integration of vascular biology and magnetic resonance imaging in the understanding of atherothrombosis and acute coronary syndromes. <b>2003</b> , 1, 1410-21	32
1584	The role of inflammation in vascular injury and repair. <b>2003</b> , 1, 1699-709	113
1583	The dynamic extracellular matrix: intervention strategies during heart failure and atherosclerosis. <b>2003</b> , 200, 516-25	93
1582	Designer blood vessels and therapeutic revascularization. <b>2003</b> , 140, 627-36	33
1581	Extracellular matrix remodeling following myocardial injury. <b>2003</b> , 35, 316-26	100
1580	Serum matrix metalloproteinase-3 and tissue inhibitor of metalloproteinases-1 as potential markers of carotid atherosclerosis in infraclinical hyperlipidemia. <b>2003</b> , 169, 139-46	67
1579	34th Bethesda Conference: Task force #3What is the spectrum of current and emerging techniques for the noninvasive measurement of atherosclerosis?. <b>2003</b> , 41, 1886-98	104
1578	Plasma concentrations and genetic variation of matrix metalloproteinase 9 and prognosis of patients with cardiovascular disease. <b>2003</b> , 107, 1579-85	610

1577	Hormone therapy and the progression of coronary-artery atherosclerosis in postmenopausal women. <b>2003</b> , 349, 535-45	295
1576	A nonantibiotic chemically modified tetracycline (CMT-3) inhibits intimal thickening. <b>2003</b> , 163, 1557-66	44
1575	Different expression of MMPs/TIMP-1 in human atherosclerotic lesions. Relation to plaque features and vascular bed. <b>2003</b> , 170, 269-76	85
1574	The vascular NAD(P)H oxidases as therapeutic targets in cardiovascular diseases. 2003, 24, 471-8	583
1573	Matrix metalloproteinase abundance in human myocardial fibroblasts: effects of sustained pharmacologic matrix metalloproteinase inhibition. <b>2003</b> , 35, 539-48	24
1572	Lesions of the pericardium and their significance in the aetiology of heart failure in broiler chickens. <b>2003</b> , 74, 203-11	15
1571	The role of matrix metalloproteinase-9 in dementia. <b>2003</b> , 350, 181-3	21
1570	ECM gene expression correlates with in vitro tissue growth and development in fibrin gel remodeled by neonatal smooth muscle cells. <b>2003</b> , 22, 477-90	112
1569	Extracellular matrix remodeling and matrix metalloproteinases in the vascular wall during aging and in pathological conditions. <b>2003</b> , 57, 195-202	244
1568	Towards understanding acute destabilization of vulnerable atherosclerotic plaques. <b>2003</b> , 12, 237-48	47
1567	Association between transforming growth factor-beta and hypertension. 2003, 16, 604-11	53
1566	Matrix metalloproteinases and tissue inhibitors of metalloproteinases: structure, function, and biochemistry. <i>Circulation Research</i> , <b>2003</b> , 92, 827-39	3404
1565	Inflammation and restenosis: implications for therapy. <b>2003</b> , 35, 523-31	34
1564	Atherosclerotic plaque rupture: local or systemic process?. <b>2003</b> , 23, 2123-30	110
1563	Profiles of matrix metalloproteinases, their inhibitors, and laminin in stroke patients: influence of different therapies. <b>2003</b> , 34, 2165-70	216
1562	Matrix metalloproteinase inhibitors for cancer therapy:the current situation and future prospects. <b>2003</b> , 7, 385-97	98
1561	Coronary artery disease in end-stage renal disease: no longer a simple plumbing problem. <b>2003</b> , 14, 1927-39	182
1560	Mechanical stretch enhances mRNA expression and proenzyme release of matrix metalloproteinase-2 (MMP-2) via NAD(P)H oxidase-derived reactive oxygen species. <i>Circulation</i> 15.7 <i>Research</i> , <b>2003</b> , 92, e80-6	314

1559	VEGFR-1-selective VEGF homologue PlGF is arteriogenic: evidence for a monocyte-mediated mechanism. <i>Circulation Research</i> , <b>2003</b> , 92, 378-85	265
1558	Donor spontaneous intracerebral hemorrhage is associated with systemic activation of matrix metalloproteinase-2 and matrix metalloproteinase-9 and subsequent development of coronary vasculopathy in the heart transplant recipient. <b>2003</b> , 108, 1724-8	27
1557	Deficiency of gelatinase a suppresses smooth muscle cell invasion and development of experimental intimal hyperplasia. <b>2003</b> , 108, 1375-81	158
1556	Regulation of matrix metalloproteinase (matrixin) genes in blood vessels: a multi-step recruitment model for pathological remodelling. <b>2003</b> , 40, 329-43	67
1555	Liver X receptor-dependent repression of matrix metalloproteinase-9 expression in macrophages. <b>2003</b> , 278, 10443-9	255
1554	Functional regulation of tissue plasminogen activator on the surface of vascular smooth muscle cells by the type-II transmembrane protein p63 (CKAP4). <b>2003</b> , 278, 42679-85	50
1553	Differential effects of doxycycline, a broad-spectrum matrix metalloproteinase inhibitor, on angiotensin II-induced atherosclerosis and abdominal aortic aneurysms. <b>2003</b> , 23, 483-8	243
1552	Metalloproteinase expression in PMA-stimulated THP-1 cells. Effects of peroxisome proliferator-activated receptor-gamma (PPAR gamma) agonists and 9-cis-retinoic acid. <b>2003</b> , 278, 51340-6	73
1551	Shear stress is differentially regulated among inbred rat strains. <i>Circulation Research</i> , <b>2003</b> , 92, 1001-9 15.7	42
1550	Proteomic approaches to analyze the dynamic relationships between nucleocytoplasmic protein glycosylation and phosphorylation. <i>Circulation Research</i> , <b>2003</b> , 93, 1047-58	107
1549	An NF-kappaB-dependent transcriptional program is required for collagen remodeling by human smooth muscle cells. <b>2003</b> , 278, 19757-64	28
1548	MT1-MMP-dependent, apoptotic remodeling of unmineralized cartilage: a critical process in skeletal growth. <b>2003</b> , 163, 661-71	124
1547	Biomarkers of vascular disease linking inflammation to endothelial activation: Part II. 2003, 108, 2041-8	167
1546	Statins inhibit secretion of metalloproteinases-1, -2, -3, and -9 from vascular smooth muscle cells and macrophages. <b>2003</b> , 23, 769-75	281
1545	Oncostatin M, an interleukin-6 family cytokine, upregulates matrix metalloproteinase-9 through the mitogen-activated protein kinase kinase-extracellular signal-regulated kinase pathway in cultured smooth muscle cells. <b>2003</b> , 23, 588-93	32
1544	Effects of HDL3 on the expression of matrix-degrading proteases in human endothelial cells. <b>2003</b> , 12, 73	1
1543	Abnormal expression of matrix metalloproteinases and tissue inhibitors of metalloproteinases in brain arteriovenous malformations. <b>2003</b> , 34, 925-31	121
1542	Editorial commentCooling matrix metalloproteinases to improve thrombolysis in acute ischemic stroke. <b>2003</b> , 34, 2171-2	4

1541	Gestational profile of matrix metalloproteinases in rat uterine artery. <b>2003</b> , 9, 351-8	34
1540	Variation in the matrix metalloproteinase-1 gene and risk of coronary heart disease. <b>2003</b> , 24, 1668-71	57
1539	Acute coronary syndromes. <b>2003</b> , 14, 605-625	30
1538	Effects of cerivastatin on human arterial smooth muscle cell growth and extracellular matrix expression at varying glucose and low-density lipoprotein levels. <b>2003</b> , 41, 422-33	13
1537	Association of nitrotyrosine levels with cardiovascular disease and modulation by statin therapy. <b>2003</b> , 289, 1675-80	340
1536	Current World Literature. <b>2003</b> , 12, 201-220	
1535	Current World Literature. 2003, 14, 513-527	
1534	Arteriogenesis The Development and Growth of Collateral Arteries. 2003, 10, 83-97	230
1533	Vasculin, a novel vascular protein differentially expressed in human atherogenesis. 2003, 102, 2803-10	12
1532	Metalloproteinases in development and progression of vascular disease. <b>2003</b> , 33, 275-81	78
1531	Atherosclerosis and extracellular matrix. <b>2003</b> , 10, 267-74	195
1530	Response to sex hormones differs in atherosclerosis-susceptible and -resistant mice. <b>2003</b> , 285, E1237-45	19
1529	Soluble E-selectin in cardiovascular disease and its risk factors. A review of the literature. <b>2003</b> , 90, 1007-20	127
1528	Retinoids: pleiotropic agents of therapy for vascular diseases?. <b>2003</b> , 3, 31-57	22
1527	Role of matrix metalloproteinases in vascular remodeling. <b>2003</b> , 10, 275-82	113
1526	Mechanical stretch induces MMP-2 release and activation in lung endothelium: role of EMMPRIN. <b>2003</b> , 284, L541-7	76
1525	Uniaxial strain upregulates matrix-degrading enzymes produced by human vascular smooth muscle cells. <b>2003</b> , 284, H1778-84	115
1524	[Apoptosis and acute coronary syndromes]. <b>2004</b> , 20, 298-303	0

1523	Extrinsic coagulation pathway activation and metalloproteinase-2/TIMPs system are related to oxidative stress and atherosclerosis in hemodialysis patients. <b>2004</b> , 92, 646-53	15
1522	The matrix metalloproteinase-3 (MMP-3) 5A/6A promoter polymorphism is not associated with ischaemic heart disease: analysis employing a family based approach. <b>2004</b> , 20, 289-94	10
1521	The 5A/6A polymorphism of the stromelysin-1 gene and restenosis after percutaneous coronary interventions. <b>2004</b> , 25, 335-41	21
1520	The role of nitric oxide in the development of diabetic angiopathy. <b>2004</b> , 36, 319-35	73
1519	Interaction of tumor necrosis factor-alpha- and thiazolidinedione-regulated pathways in obesity. <b>2004</b> , 145, 2214-20	31
1518	Measurement of matrix metalloproteinases (MMPs) and tissue inhibitors of metalloproteinases (TIMP) in blood and urine: potential clinical applications. <b>2004</b> , 38, 37-85	23
1517	Impending septal rupture in myocardial infarction detected by cardiac magnetic resonance imaging. <b>2004</b> , 90, 852	1
1516	Markers of inflammation and multiple complex stenoses (pancoronary plaque vulnerability) in patients with non-ST segment elevation acute coronary syndromes. <b>2004</b> , 90, 847-52	100
1515	Distinct endothelial phenotypes evoked by arterial waveforms derived from atherosclerosis-susceptible and -resistant regions of human vasculature. <b>2004</b> , 101, 14871-6	512
1514	Human evidence that the cystatin C gene is implicated in focal progression of coronary artery disease. <b>2004</b> , 24, 551-7	73
1513	Scintigraphic imaging of matrix metalloproteinase activity in the arterial wall in vivo. 2004, 109, 2554-9	187
1512	Induction of the MMP-14 gene in macrophages of the atherosclerotic plaque: role of SAF-1 in the induction process. <i>Circulation Research</i> , <b>2004</b> , 95, 1082-90	37
1511	Matrix metalloproteinases, inflammation and atherosclerosis: therapeutic perspectives. <b>2004</b> , 42, 121-31	103
1510	Novel NAD(P)H oxidases in the cardiovascular system. <b>2004</b> , 90, 491-3	157
1509	Alteration of soluble adhesion molecules during aging and their modulation by calorie restriction. <b>2004</b> , 18, 320-2	90
1508	Role of the epidermal growth factor receptor in signaling strain-dependent activation of the brain natriuretic peptide gene. <b>2004</b> , 279, 9287-97	24
1507	Compensatory vascular remodeling during atherosclerotic lesion growth depends on matrix metalloproteinase-9 activity. <b>2004</b> , 24, 2123-9	36
1506	Exogenously added GPI-anchored tissue inhibitor of matrix metalloproteinase-1 (TIMP-1) displays enhanced and novel biological activities. <b>2004</b> , 385, 655-63	14

1505	Atherosclerotic Vascular Disease Conference: Writing Group III: pathophysiology. 2004, 109, 2617-25	245
1504	Transactivation of epidermal growth factor receptor mediates catecholamine-induced growth of vascular smooth muscle. <i>Circulation Research</i> , <b>2004</b> , 95, 989-97	88
1503	Native matrix metalloproteinase characteristics may influence early stenosis of venous versus arterial coronary artery bypass grafting conduits. <b>2004</b> , 125, 1853-8	21
1502	Extracellular proteolytic pathophysiology in the neurovascular unit after stroke. <b>2004</b> , 26, 854-61	40
1501	Announcement. <b>2004</b> , 213	
1500	Red wine polyphenolic compounds strongly inhibit pro-matrix metalloproteinase-2 expression and its activation in response to thrombin via direct inhibition of membrane type 1-matrix metalloproteinase in vascular smooth muscle cells. <b>2004</b> , 110, 1861-7	61
1499	Carotid arterial remodeling: a maladaptive phenomenon in type 2 diabetes but not in impaired glucose metabolism: the Hoorn study. <b>2004</b> , 35, 671-6	56
1498	Announcement. <b>2004</b> , 55, 213	
1497	Cathepsin V, a novel and potent elastolytic activity expressed in activated macrophages. <b>2004</b> , 279, 36761-70	137
1496	Established and emerging plasma biomarkers in the prediction of first atherothrombotic events. <b>2004</b> , 109, IV6-19	246
1495	Giant atrial septal aneurysm simulating a right atrial tumour. <b>2004</b> , 90, 493	2
1494	Presence of IFN-gamma does not indicate its necessity for induction of coronary arteritis in an animal model of Kawasaki disease. <b>2004</b> , 173, 3492-503	27
1493	Role for matrix metalloproteinase-2 in oxidized low-density lipoprotein-induced activation of the sphingomyelin/ceramide pathway and smooth muscle cell proliferation. <b>2004</b> , 110, 571-8	114
1492	Potent inhibition of arterial intimal hyperplasia by TIMP1 gene transfer using AAV vectors. <b>2004</b> , 9, 876-84	11
1491	Enzymatic modification of low-density lipoprotein in the arterial wall: a new role for plasmin and matrix metalloproteinases in atherogenesis. <b>2004</b> , 24, 2130-6	50
1490	Molecular regulation of vascular smooth muscle cell differentiation in development and disease. <b>2004</b> , 84, 767-801	2444
1489	Vulnerable plaque: the devil is in the details. <b>2004</b> , 110, 244-6	25
1488	Expansive arterial remodeling: location, location, location. <b>2004</b> , 24, 650-7	98

# (2004-2004)

1487	Cyclic strain-mediated regulation of endothelial matrix metalloproteinase-2 expression and activity. <b>2004</b> , 63, 625-34	55
1486	Extracellular matrix-induced cyclooxygenase-2 regulates macrophage proteinase expression. <b>2004</b> , 279, 22039-46	48
1485	New Insights from Trials of Statins in Animal Models of Atherosclerosis. <b>2004</b> , 13-35	
1484	Matrix management: assigning different roles for MMP-2 and MMP-9 in vascular remodeling. <b>2004</b> , 24, 10-1	40
1483	The effects of high glucose and atorvastatin on endothelial cell matrix production. 2004, 21, 1102-7	13
1482	Extra-cellular matrix in vascular networks. <b>2004</b> , 37, 207-20	76
1481	8-isoprostane increases scavenger receptor A and matrix metalloproteinase activity in THP-1 macrophages, resulting in long-lived foam cells. <b>2004</b> , 34, 451-8	23
1480	The 5-lipoxygenase pathway promotes pathogenesis of hyperlipidemia-dependent aortic aneurysm. <b>2004</b> , 10, 966-73	291
1479	MMPs, cadherins, and cell proliferation. <b>2004</b> , 14, 100-5	65
1478	Matrix metalloproteinases and vascular endothelium-mononuclear cell close encounters. <b>2004</b> , 14, 105-11	16
1477	Matrix metalloproteinase activity in thoracic aortic aneurysms associated with bicuspid and tricuspid aortic valves. <b>2004</b> , 127, 686-91	104
1476	Vascular protection by dietary polyphenols. <b>2004</b> , 500, 299-313	384
1475	Mechanisms of aortic valve calcification. <b>2004</b> , 94, 1396-402, A6	169
1474	Mitochondrial redox control of matrix metalloproteinases. <b>2004</b> , 37, 768-84	348
1473	Influence of organosulphur compounds from garlic on the secretion of matrix metalloproteinases and their inhibitor TIMP-1 by cultured HUVEC cells. <b>2004</b> , 20, 253-60	17
1472	MMP induction and inhibition in myocardial infarction. <b>2004</b> , 9, 7-19	79
1471	Reactive oxygen species as mediators of angiogenesis signaling: role of NAD(P)H oxidase. <b>2004</b> , 264, 85-97	348
1470	Introduction. <b>2004</b> , 27, 1-2	78

1469	Redox processes underlying the vascular repair reaction. <b>2004</b> , 28, 331-6	28
1468	Matrix metalloproteinases and atherosclerosis. <b>2004</b> , 6, 112-20	91
1467	Synergistic effect of shear stress and streptavidin-biotin on the expression of endothelial vasodilator and cytoskeleton genes. <b>2004</b> , 88, 750-8	5
1466	MMP-2 sensitive, VEGF-bearing bioactive hydrogels for promotion of vascular healing. <b>2004</b> , 68, 704-16	250
1465	Expression of matrix metalloproteinase-2 and -9 in exudates associated with polydimethyl siloxane and gelatin tubes implanted in mice. <b>2004</b> , 71, 226-32	5
1464	Matrix metalloproteinases in renal development. <b>2004</b> , 45, 73-85	8
1463	Molecular, endocrine, and genetic mechanisms of arterial calcification. <b>2004</b> , 25, 629-72	215
1462	Proteolysis of the pericellular matrix: a novel element determining cell survival and death in the pathogenesis of plaque erosion and rupture. <b>2004</b> , 24, 1350-8	54
1461	Inflammation, immunity, and HMG-CoA reductase inhibitors: statins as antiinflammatory agents?. <b>2004</b> , 109, II18-26	364
1460	Matrix metalloproteinase-9 genotype influences large artery stiffness through effects on aortic gene and protein expression. <b>2004</b> , 24, 1479-84	113
1459	Seeing within: molecular imaging of the cardiovascular system. <i>Circulation Research</i> , <b>2004</b> , 94, 433-45 15.7	172
1458	Genetic predisposition to heart failure. <b>2004</b> , 88, 1173-92	17
1457	Matrix metalloproteinase inhibition reduces intimal hyperplasia in a porcine arteriovenous-graft model. <b>2004</b> , 39, 432-9	55
1456	Matrix metalloproteinase-specific inhibition of Ca2+ entry mechanisms of vascular contraction. <b>2004</b> , 40, 1001-10	76
1455	Cardiovascular Pharmacogenetics. 2004,	
1454	Differential expression and activity of matrix metalloproteinases during flow-modulated vein graft remodeling. <b>2004</b> , 39, 1084-90	33
1453	The natural activities of cells, the role of reactive oxygen species, and their relation to antioxidants, nutraceuticals, botanicals, and other biologic therapies. <b>2004</b> , 34, 39-66	4
1452	Cyclic strain-induced endothelial MMP-2: role in vascular smooth muscle cell migration. <b>2004</b> , 320, 325-33	19

#### (2004-2004)

1451	Adrenomedullin induces matrix metalloproteinase-2 activity in rat aortic adventitial fibroblasts. <b>2004</b> , 325, 80-4	27
1450	Alpha-tocopherol and astaxanthin decrease macrophage infiltration, apoptosis and vulnerability in atheroma of hyperlipidaemic rabbits. <b>2004</b> , 37, 969-78	60
1449	Synthesis and preliminary biological evaluation of new radioiodinated MMP inhibitors for imaging MMP activity in vivo. <b>2004</b> , 31, 257-67	64
1448	Early adaptive responses of the vascular wall during venous arterialization in mice. 2004, 164, 81-9	87
1447	Role of oxidant stress in vascular proteolysis. <b>2004</b> , 1262, 490-493	
1446	High-density lipoprotein subfraction 3 decreases ADAMTS-1 expression induced by lipopolysaccharide and tumor necrosis factor-alpha in human endothelial cells. <b>2004</b> , 22, 557-60	29
1445	The pathobiology of aortic aneurysms. <b>2004</b> , 117, 163-75	46
1444	Reactive oxygen species in hypertension; An update. <b>2004</b> , 17, 852-60	274
1443	tPA and proteolysis in the neurovascular unit. <b>2004</b> , 35, 354-6	161
1442	Involvement of matrix metalloproteinases and tenascin-C in elastin calcification. 2004, 13, 146-55	45
1441	Enhanced activation of and increased production of matrix metalloproteinase-9 by human blood monocytes upon adhering to carbamylated collagen. <b>2004</b> , 563, 13-6	39
1440	Role of apoptosis in atherosclerosis and its therapeutic implications. <b>2004</b> , 107, 343-54	175
1439	Physiopathologie et tiopathoghie de linfarctus du myocarde. <b>2004</b> , 1, 49-67	3
1438	Interrelationships between the fibrinolytic system and lipoproteins in the pathogenesis of coronary atherosclerosis. <b>2004</b> , 174, 225-33	31
1437	Effect of hormone therapy and raloxifene on serum VE-cadherin in postmenopausal women. <b>2004</b> , 82, 634-8	7
1436	Matrix metalloproteinase-9 coding sequence single-nucleotide polymorphisms in caucasians with intracranial aneurysms. <b>2004</b> , 55, 207-12; discussion 212-3	16
1435	Elastinolytic matrix metalloproteinases and their inhibitors as therapeutic targets in atherosclerotic plaque instability. <b>2004</b> , 12, 141-50	7
1434	The effect of hormone therapy and raloxifene on serum matrix metalloproteinase-2 and -9 in postmenopausal women. <b>2004</b> , 11, 299-305	11

1433	Functional, mechanical and geometrical adaptation of the arterial wall of a non-axisymmetric artery in vitro. <b>2004</b> , 22, 339-47	16
1432	Effects of lipid-lowering therapy on coronary artery remodeling. <b>2004</b> , 15, 45-51	13
1431	L-arginine attenuates acute pulmonary embolism-induced increases in lung matrix metalloproteinase-2 and matrix metalloproteinase-9. <b>2005</b> , 128, 3705-10	41
1430	Myocardial extra-cellular matrix and its regulation by metalloproteinases and their inhibitors. <b>2005</b> , 93, 212-9	62
1429	Serum tissue inhibitors of metalloproteinases 1 (TIMP-1) and carotid atherosclerosis and aortic arterial stiffness. <b>2005</b> , 23, 2263-2268	25
1428	Molecular pathology of aging and its implications for senescent coronary atherosclerosis. <b>2005</b> , 20, 399-406	32
1427	Roles of MMP-2/-9 in cardiac dysfunction during early multiple organ failure in an ovine animal model. <b>2005</b> , 201, 809-17	10
1426	Antiangiogenic properties of natural polyphenols from red wine and green tea. <b>2005</b> , 16, 1-8	171
1425	Targeting the vulnerable plaque: the evolving role of nuclear imaging. <b>2005</b> , 12, 234-46	30
1424	Noninvasive in vivo measurement of vascular inflammation with F-18 fluorodeoxyglucose positron emission tomography. <b>2005</b> , 12, 294-301	225
1423	1,12-substituted tetracyclines as antioxidant agents. <b>2005</b> , 13, 4627-37	18
1422	Matrix metalloproteinases and diabetic vascular complications. <b>2005</b> , 56, 173-89	106
1421	Oxidative stress in atherogenesis and arterial thrombosis: the disconnect between cellular studies and clinical outcomes. <b>2005</b> , 3, 254-67	151
1420	Intraplatelet signaling mechanisms of the priming effect of matrix metalloproteinase-2 on platelet aggregation. <b>2005</b> , 3, 2526-35	58
1419	Elevated circulating levels of matrix metalloproteinase-9 and -2 in patients with symptomatic coronary artery disease. <b>2005</b> , 35, 331-5	72
1418	Sustained activation of neutrophils in the course of Kawasaki disease: an association with matrix metalloproteinases. <b>2005</b> , 141, 183-8	55
1417	Regression of abdominal aortic aneurysm by inhibition of c-Jun N-terminal kinase. <b>2005</b> , 11, 1330-8	355
1416	Oxidative stress and vascular remodelling. <b>2005</b> , 90, 457-62	108

# (2005-2005)

1415	Systemic dilation diathesis in patients with abdominal aortic aneurysms: a role for matrix metalloproteinase-9?. <b>2005</b> , 29, 371-7	31
1414	The role of inflammation in early and late venous thrombosis: Are there clinical implications?. <b>2005</b> , 18, 118-29	42
1413	C-reactive protein increases matrix metalloproteinase-2 expression and activity in cultured human vascular smooth muscle cells. <b>2005</b> , 146, 287-98	33
1412	Local delivery of osteopontin attenuates vascular remodeling by altering matrix metalloproteinase-2 in a rabbit model of aortic injury. <b>2005</b> , 130, 355-62	12
1411	Overexpression of MMP9 and tissue factor in unstable carotid plaques associated with Chlamydia pneumoniae, inflammation, and apoptosis. <b>2005</b> , 19, 310-9	33
1410	Zymographic techniques for the analysis of matrix metalloproteinases and their inhibitors. <b>2005</b> , 38, 73-83	363
1409	The ADAMTS proteases, extracellular matrix, and vascular disease: waking the sleeping giant(s)!. <b>2005</b> , 25, 12-4	31
1408	Functional Polymorphism in the Promoter Region of Matrix Metalloproteinase-9 is Strongly Associated with Acute Myocardial Infarction. <b>2005</b> , 35, 192	3
1407	Accelerated atherosclerosis in patients with Wegener's granulomatosis. <b>2005</b> , 64, 753-9	104
1406	Shear stress inhibits smooth muscle cell migration via nitric oxide-mediated downregulation of matrix metalloproteinase-2 activity. <b>2005</b> , 288, H2244-52	67
1405	Age-dependent changes in myocardial matrix metalloproteinase/tissue inhibitor of metalloproteinase profiles and fibroblast function. <b>2005</b> , 66, 410-9	131
1404	Evidence for vascular macrophage migration inhibitory factor in destabilization of human atherosclerotic plaques. <b>2005</b> , 65, 272-82	39
1403	MMP-9 regulates both positively and negatively collagen gel contraction: a nonproteolytic function of MMP-9. <b>2005</b> , 66, 402-9	23
1402	Imaging in Drug Discovery and Early Clinical Trials. 2005,	
1401	Cells, cytokines and cellular immunity in the pathogenesis of fibroproliferative vasculopathies. <b>2005</b> , 83, 701-15	21
1400	Combined angiotensin II type 1 and type 2 receptor blockade on vascular remodeling and matrix metalloproteinases in resistance arteries. <b>2005</b> , 46, 598-606	84
1399	Modulation of collagen turnover in cardiovascular disease. <b>2005</b> , 11, 2501-14	40
1398	Hydrogen peroxide regulation of endothelial function: origins, mechanisms, and consequences. <b>2005</b> , 68, 26-36	418

1397	Catechins prevent vascular smooth muscle cell invasion by inhibiting MT1-MMP activity and MMP-2 expression. <b>2005</b> , 67, 317-25		58
1396	Extracellular Matrix Remodeling in Hypertension. <b>2005</b> , 1, 51-60		17
1395	p47phox-dependent NADPH oxidase regulates flow-induced vascular remodeling. <i>Circulation Research</i> , <b>2005</b> , 97, 533-40	i-7	188
1394	ABCA1 and atherosclerosis. 2005, 10, 109-19		59
1393	Stent-based delivery of tissue inhibitor of metalloproteinase-3 adenovirus inhibits neointimal formation in porcine coronary arteries. <b>2005</b> , 25, 754-9		52
1392	Smad7 gene transfer attenuates adventitial cell migration and vascular remodeling after balloon injury. <b>2005</b> , 25, 1383-7		50
1391	Cleavage of apolipoprotein E by membrane-type matrix metalloproteinase-1 abrogates suppression of cell proliferation. <b>2005</b> , 137, 95-9		14
1390	Plasma levels and zymographic activities of matrix metalloproteinases 2 and 9 in type II diabetics with peripheral arterial disease. <b>2005</b> , 10, 1-6		97
1389	The role of inflammation in atherothrombosis: implications for clinical practice. 2005, 10, 45-53		35
1388	Hemodynamic benefits of matrix metalloproteinase-9 inhibition by doxycycline during experimental acute pulmonary embolism. <b>2005</b> , 56, 611-7		40
1387	Role of angiogenesis in cardiovascular disease: a critical appraisal. <b>2005</b> , 112, 1813-24		347
1386	Potential role for immunomodulatory therapy in atherosclerotic plaque stabilisation. <b>2005</b> , 6, 2169-80		3
1385	Type 2 diabetes causes remodeling of cerebrovasculature via differential regulation of matrix metalloproteinases and collagen synthesis: role of endothelin-1. <b>2005</b> , 54, 2638-44		101
1384	Genetic strategies to elucidate the roles of matrix metalloproteinases in atherosclerotic plaque growth and stability. <i>Circulation Research</i> , <b>2005</b> , 97, 958-60	i.7	26
1383	Adhesion molecule expression in fibroblasts: alteration in fibroblast biology after transfection with LOX-1 plasmids. <b>2005</b> , 46, 622-7		30
1382	Genotype and plasma concentration of cystatin C in patients with coronary heart disease and risk for secondary cardiovascular events. <b>2005</b> , 25, 1470-4		33
1381	High-density lipoproteins prevent the oxidized low-density lipoprotein-induced epidermal [corrected] growth factor receptor activation and subsequent matrix metalloproteinase-2 upregulation. <b>2005</b> , 25, 1206-12		54
1380	[Scintigraphic molecular imaging]. <b>2005</b> , 15, 147-54		О

1379	Matrix metalloproteinase 9 facilitates collagen remodeling and angiogenesis for vascular constructs. <b>2005</b> , 11, 267-76		36
1378	NADPH oxidase restrains the matrix metalloproteinase activity of macrophages. <b>2005</b> , 280, 30201-5		50
1377	Alterations in internal elastic lamina permeability as a function of age and anatomical site precede lesion development in apolipoprotein E-null mice. <i>Circulation Research</i> , <b>2005</b> , 97, 450-6	15.7	18
1376	Pathogenesis of Atherosclerotic Vascular Disease. <b>2005</b> , 99-181		
1375	Lower Extremity Arterial Disease. 2005,		1
1374	Tissue inhibitor of metalloproteinase 1 adenoviral gene therapy alone is equally effective in reducing restenosis as combination gene therapy in a rabbit restenosis model. <b>2005</b> , 42, 361-7		21
1373	Arterial wall response to ex vivo exposure to oscillatory shear stress. <b>2005</b> , 42, 535-44		59
1372	Differential effect of experimental hypertension and hypercholesterolemia on adventitial remodeling. <b>2005</b> , 25, 447-53		57
1371	Matrix metalloproteinase-9 modulation by resident arterial cells is responsible for injury-induced accelerated atherosclerotic plaque development in apolipoprotein E-deficient mice. <b>2005</b> , 25, 1020-5		46
1370	Metalloproteinase-2 and -9 in giant cell arteritis: involvement in vascular remodeling. <b>2005</b> , 112, 264-9		76
1369	Matrix metalloproteinases: a potential therapeutic target in atherosclerosis. <b>2005</b> , 5, 541-8		19
1368	Preventing atherosclerosis with angiotensin-converting enzyme inhibitors: emphasis on diabetic atherosclerosis. <b>2005</b> , 5, 503-12		2
1367	Targeted disruption of TGF-beta-Smad3 signaling leads to enhanced neointimal hyperplasia with diminished matrix deposition in response to vascular injury. <i>Circulation Research</i> , <b>2005</b> , 96, 904-12	15.7	65
1366	Coronary artery remodelling is related to plaque composition. <b>2006</b> , 92, 388-91		96
1365	Transcriptional induction of matrix metalloproteinase-9 in the chondrocyte and synoviocyte cells is regulated via a novel mechanism: evidence for functional cooperation between serum amyloid A-activating factor-1 and AP-1. <b>2005</b> , 175, 4039-48		42
1364	In vivo temperature heterogeneity is associated with plaque regions of increased MMP-9 activity. <b>2005</b> , 26, 2200-5		29
1363	Inflamacifi y arteriosclerosis. <b>2005</b> , 22, 173-182		
1362	Metaloproteasas en aterosclerosis: implicaciones fisiopatolgicas y terapliticas. <b>2005</b> , 17, 133-141		O

1361	Macrophage migration inhibitory factor induces MMP-9 expression: implications for destabilization of human atherosclerotic plaques. <b>2005</b> , 178, 207-15	71
1360	Matrix metalloproteinase3 and 9 gene promoter polymorphisms: joint action of two loci as a risk factor for coronary artery complicated plaques. <b>2005</b> , 180, 73-8	34
1359	Absence of the protease inhibitor cystatin C in inflammatory cells results in larger plaque area in plaque regression of apoE-deficient mice. <b>2005</b> , 180, 45-53	29
1358	Combined effects of HMG-CoA-reductase inhibition and renin-angiotensin system blockade on experimental atherosclerosis. <b>2005</b> , 182, 57-69	44
1357	Rho and vascular disease. <b>2005</b> , 183, 1-16	115
1356	5A/6A polymorphism of the stromelysin-1 gene and angiographic restenosis after coronary artery stenting. <b>2005</b> , 68, 506-12	3
1355	Inflamaciñ y arteriosclerosis. <b>2005</b> , 22, 173-182	
1354	Healing of intracranial aneurysms with bioactive coils. <b>2005</b> , 16, 487-99, v-vi	5
1353	Mechanisms, pathophysiology, and therapy of arterial stiffness. <b>2005</b> , 25, 932-43	1183
1352	Atorvastatin. <b>2005</b> , 6, 1191-203	13
1352 1351	Atorvastatin. 2005, 6, 1191-203  Cardiovascular effects of secondhand smoke: nearly as large as smoking. 2005, 111, 2684-98	674
1351		
1351	Cardiovascular effects of secondhand smoke: nearly as large as smoking. <b>2005</b> , 111, 2684-98  Furin-like proprotein convertases are central regulators of the membrane type matrix metalloproteinase-pro-matrix metalloproteinase-2 proteolytic cascade in atherosclerosis. <b>2005</b> ,	674
1351 1350	Cardiovascular effects of secondhand smoke: nearly as large as smoking. 2005, 111, 2684-98  Furin-like proprotein convertases are central regulators of the membrane type matrix metalloproteinase-pro-matrix metalloproteinase-2 proteolytic cascade in atherosclerosis. 2005, 111, 2820-7  Matrix metalloproteinases in ascending aortic aneurysms: bicuspid versus trileaflet aortic valves.	674 87
1351 1350 1349	Cardiovascular effects of secondhand smoke: nearly as large as smoking. 2005, 111, 2684-98  Furin-like proprotein convertases are central regulators of the membrane type matrix metalloproteinase-pro-matrix metalloproteinase-2 proteolytic cascade in atherosclerosis. 2005, 111, 2820-7  Matrix metalloproteinases in ascending aortic aneurysms: bicuspid versus trileaflet aortic valves. 2005, 123, 40-8	674 87 145
1351 1350 1349 1348	Cardiovascular effects of secondhand smoke: nearly as large as smoking. 2005, 111, 2684-98  Furin-like proprotein convertases are central regulators of the membrane type matrix metalloproteinase-pro-matrix metalloproteinase-2 proteolytic cascade in atherosclerosis. 2005, 111, 2820-7  Matrix metalloproteinases in ascending aortic aneurysms: bicuspid versus trileaflet aortic valves. 2005, 123, 40-8  Enhanced abdominal aortic aneurysm in TIMP-1-deficient mice. 2005, 123, 289-93  Dermal fibroblasts from pseudoxanthoma elasticum patients have raised MMP-2 degradative	674 87 145 64
1351 1350 1349 1348	Cardiovascular effects of secondhand smoke: nearly as large as smoking. 2005, 111, 2684-98  Furin-like proprotein convertases are central regulators of the membrane type matrix metalloproteinase-pro-matrix metalloproteinase-2 proteolytic cascade in atherosclerosis. 2005, 111, 2820-7  Matrix metalloproteinases in ascending aortic aneurysms: bicuspid versus trileaflet aortic valves. 2005, 123, 40-8  Enhanced abdominal aortic aneurysm in TIMP-1-deficient mice. 2005, 123, 289-93  Dermal fibroblasts from pseudoxanthoma elasticum patients have raised MMP-2 degradative potential. 2005, 1741, 42-7  Long-term therapy with the acorn cardiac support device normalizes gene expression of growth	674 87 145 64

## (2006-2005)

1343	Suppression of matrix metalloproteinase-9 by prostaglandin E(2) in peritoneal macrophage is associated with severity of endometriosis. <b>2005</b> , 167, 1061-9	77
1342	Temporal exposure of cryptic collagen epitopes within ischemic muscle during hindlimb reperfusion. <b>2005</b> , 167, 1349-59	24
1341	Increased expression and activity of matrix metalloproteinases characterize embolic cardiac myxomas. <b>2005</b> , 166, 1619-28	51
1340	Acto-myosin crossbridge kinetics in humans with coronary artery disease: influence of sex and diabetes mellitus. <b>2005</b> , 39, 743-53	11
1339	Thrombin/inflammation paradigms: a closer look at arterial and venous thrombosis. 2005, 149, S19-31	24
1338	Inflammation and coronary artery disease. <b>2005</b> , 150, 11-8	86
1337	Chronic hypoxia accelerates the progression of atherosclerosis in apolipoprotein E-knockout mice. <b>2005</b> , 28, 837-45	51
1336	Role of Estrogens in Vascular Disease in Diabetes. <b>2005</b> , 129-165	
1335	Plasma monitoring of the myocardial specific tissue inhibitor of metalloproteinase-4 after alcohol septal ablation in hypertrophic obstructive cardiomyopathy. <b>2005</b> , 11, 124-30	16
1334	Atherothrombosis and high-risk plaque: part I: evolving concepts. <b>2005</b> , 46, 937-54	574
1334	Atherothrombosis and high-risk plaque: part I: evolving concepts. 2005, 46, 937-54  Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. 2005, 94, 26-32	574 46
	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice	
1333	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. <b>2005</b> , 94, 26-32	46
1333	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. <b>2005</b> , 94, 26-32  Matrix metalloproteinase-9 in cerebral-amyloid-angiopathy-related hemorrhage. <b>2005</b> , 229-230, 249-54  Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late	46 46
1333 1332 1331	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. 2005, 94, 26-32  Matrix metalloproteinase-9 in cerebral-amyloid-angiopathy-related hemorrhage. 2005, 229-230, 249-54  Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late fibrosis in a mouse model. 2005, 42, 140-8  Pressure distention compared with pharmacologic relaxation in vein grafting upregulates matrix	46 46 97
1333 1332 1331 1330	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. 2005, 94, 26-32  Matrix metalloproteinase-9 in cerebral-amyloid-angiopathy-related hemorrhage. 2005, 229-230, 249-54  Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late fibrosis in a mouse model. 2005, 42, 140-8  Pressure distention compared with pharmacologic relaxation in vein grafting upregulates matrix metalloproteinase-2 and -9. 2005, 42, 747-56  Simvastatin inhibits cigarette smoking-induced emphysema and pulmonary hypertension in rat lungs. 2005, 172, 987-93	46 46 97 34
1333 1332 1331 1330	Histopathological and immunophenotyping studies on normal and sarcoma 180-bearing mice treated with a complex homeopathic medication. 2005, 94, 26-32  Matrix metalloproteinase-9 in cerebral-amyloid-angiopathy-related hemorrhage. 2005, 229-230, 249-54  Vein wall remodeling after deep vein thrombosis involves matrix metalloproteinases and late fibrosis in a mouse model. 2005, 42, 140-8  Pressure distention compared with pharmacologic relaxation in vein grafting upregulates matrix metalloproteinase-2 and -9. 2005, 42, 747-56  Simvastatin inhibits cigarette smoking-induced emphysema and pulmonary hypertension in rat lungs. 2005, 172, 987-93  Percutaneous transplantation of genetically-modified autologous fibroblasts in the rabbit femoral	46 46 97 34 205

1325	Influence of matrix metalloproteinase genotype on cardiovascular disease susceptibility and outcome. <b>2006</b> , 69, 636-45	126
1324	Diabetes mellitus-associated atherosclerosis: mechanisms involved and potential for pharmacological invention. <b>2006</b> , 6, 15-40	20
1323	Endothelial NO synthase deficiency promotes smooth muscle progenitor cells in association with upregulation of stromal cell-derived factor-1alpha in a mouse model of carotid artery ligation. <b>2006</b> , 26, 765-72	56
1322	Biochemical markers surrogating on vascular effects of sex steroid hormones. <b>2006</b> , 22, 163-73	12
1321	Infiltration of inflammatory cells plays an important role in matrix metalloproteinase expression and activation in the heart during sepsis. <b>2006</b> , 169, 1567-76	25
1320	An osteopontin-NADPH oxidase signaling cascade promotes pro-matrix metalloproteinase 9 activation in aortic mesenchymal cells. <i>Circulation Research</i> , <b>2006</b> , 98, 1479-89	99
1319	Altered expression balance of matrix metalloproteinases and their inhibitors in human carotid plaque disruption: results of quantitative tissue analysis using real-time RT-PCR method. <b>2006</b> , 185, 165-72	42
1318	Plasma cystatin-C and development of coronary heart disease: The PRIME Study. <b>2006</b> , 185, 375-80	86
1317	Endurance training reduces circulating inflammatory markers in persons at risk of coronary events: impact on plaque stabilization?. <b>2006</b> , 186, 160-5	62
1316	Increased serum cathepsin S in patients with atherosclerosis and diabetes. <b>2006</b> , 186, 411-9	90
1315	Oxidized phospholipid: POVPC binds to platelet-activating-factor receptor on human macrophages. Implications in atherosclerosis. <b>2006</b> , 188, 433-43	54
1314	Gene expression changes evoked in a venous segment exposed to arterial flow. <b>2006</b> , 44, 863-70	40
1313	The role of genetic variants of matrix metalloproteinases in coronary and carotid atherosclerosis. <b>2006</b> , 43, 897-901	8o
1312	C-reactive protein induces matrix metalloproteinase-1 and -10 in human endothelial cells: implications for clinical and subclinical atherosclerosis. <b>2006</b> , 47, 1369-78	147
1311	Increased levels of atherosclerosis markers in salt-sensitive hypertension. <b>2006</b> , 19, 87-93	25
1310	Tissue inhibitor of metalloproteinase-1 (TIMP-1) is an independent predictor of all-cause mortality, cardiac mortality, and myocardial infarction. <b>2006</b> , 151, 1101.e1-8	93
1309	Changes in scleral MMP-2, TIMP-2 and TGFbeta-2 mRNA expression after imposed myopic and hyperopic defocus in chickens. <b>2006</b> , 82, 710-9	52
1308	Inhibition of MMP-2 activation and release as a novel mechanism for HDL-induced cardioprotection. <b>2006</b> , 580, 5974-8	14

# (2006-2006)

Genetic polymorphism of matrix metalloproteinase (MMP)-9 does not affect plasma MMP-9 activin healthy subjects. <b>2006</b> , 365, 183-7	4°
Elevated serum levels of proinflammatory cytokines and biomarkers of matrix remodeling in never-treated patients with familial hypercholesterolemia. <b>2006</b> , 366, 185-9	26
Extracellular matrix integrity: a possible mechanism for differential clinical effects among selecti estrogen receptor modulators and estrogens?. <b>2006</b> , 247, 53-9	ve <sub>28</sub>
Extracellular matrix dynamics associated with tissue-engineered intravascular sclerotherapy. <b>200</b> 41, 757-62	<b>1</b>
Early differential MMP-2 and -9 dynamics during flow-induced arterial and vein graft adaptations <b>2006</b> , 134, 327-34	. 30
Salvianolic acid B from Salvia miltiorrhiza inhibits tumor necrosis factor-alpha (TNF-alpha)-induce MMP-2 upregulation in human aortic smooth muscle cells via suppression of NAD(P)H oxidase-derived reactive oxygen species. <b>2006</b> , 41, 138-48	d 95
1301 Modified HDL: biological and physiopathological consequences. <b>2006</b> , 16, 371-86	63
Premature ovarian failure, endothelial dysfunction and estrogen-progestogen replacement. <b>2006</b> 17, 101-9	<b>6,</b> 41
1299 MMPsrole in cardiovascular development and disease. <b>2006</b> , 11, 447-78	82
Effects of stenting the parent artery on aneurysm filling and gene expression of various potential factors involved in healing of experimental aneurysms. <b>2006</b> , 12, 289-302	ıl 5
Acute Coronary Syndromes: From the Laboratory Markers to the Coronary Vessels. <b>2006</b> , 1, 1177	27190600100
Vascular radiolesion as a deleterious effect of high-dose-rate intraarterial brachytherapy with samarium-153 in hypercholesterolemic rabbits. <b>2006</b> , 87, 512-9	1
1295 [Extracellular matrix and vascular ageing]. <b>2006</b> , 22, 273-8	4
Processing of amyloid precursor protein as a biochemical link between atherosclerosis and Alzheimer's disease. <b>2006</b> , 6, 21-34	20
Matrix metalloproteinase dependent and independent collagen degradation. <b>2006</b> , 11, 3100-20	52
Deficiency in CCR5 but not CCR1 protects against neointima formation in atherosclerosis-prone mice: involvement of IL-10. <b>2006</b> , 107, 4240-3	106
Role of interleukin-10 in atherogenesis and plaque stabilization. <b>2006</b> , 2, 75-83	3
Why is the Inhibition of the Renin-Angiotensin System Effective for Preventing Cardiac Events in Patients with Coronary Risk Factors or Coronary Artery Disease?. <b>2006</b> , 2, 293-316	

1289	COX-2 and atherosclerosis. <b>2006</b> , 47 Suppl 1, S26-36	55
1288	Cardiovascular effects of second-hand smoke help explain the benefits of smoke-free legislation on heart disease burden. <b>2006</b> , 21, 457-62	25
1287	Contemporary scientific insights: role of biomarkers of inflammation in cardiovascular disease/atherosclerosis. <b>2006</b> , 5, 191-210	3
1286	RECS1 is a negative regulator of matrix metalloproteinase-9 production and aged RECS1 knockout mice are prone to aortic dilation. <b>2006</b> , 70, 615-24	19
1285	Type-2 diabetes-induced changes in vascular extracellular matrix gene expression: relation to vessel size. <b>2006</b> , 5, 3	43
1284	Pharmacologic profile and therapeutic potential of NCX 4016, a nitric oxide-releasing aspirin, for cardiovascular disorders. <b>2006</b> , 24, 148-68	41
1283	The pathogenesis of optic disc splinter haemorrhages: a new hypothesis. <b>2006</b> , 84, 62-8	62
1282	Matrix metalloproteinase-9 activity in plasma correlates with plasma and whole blood lead concentrations. <b>2006</b> , 98, 559-64	25
1281	Matrix metalloproteinases contribute to endotoxin and interleukin-1beta induced vascular dysfunction. <b>2006</b> , 149, 31-42	40
1280	Why don't fistulas mature?. <b>2006</b> , 70, 1413-22	226
1280 1279	Why don't fistulas mature?. 2006, 70, 1413-22  Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). 2006, 14, 5451-8	226 18
1279	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix	
1279	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). <b>2006</b> , 14, 5451-8	18
1279 1278 1277	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). <b>2006</b> , 14, 5451-8  Construction and enzymatic degradation of multilayered poly-l-lysine/DNA films. <b>2006</b> , 27, 1152-9	18
1279 1278 1277	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). 2006, 14, 5451-8  Construction and enzymatic degradation of multilayered poly-l-lysine/DNA films. 2006, 27, 1152-9  The pathobiology of the vessel wall: implications for imaging. 2006, 13, 402-14	18 121 8
1279 1278 1277 1276	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). 2006, 14, 5451-8  Construction and enzymatic degradation of multilayered poly-l-lysine/DNA films. 2006, 27, 1152-9  The pathobiology of the vessel wall: implications for imaging. 2006, 13, 402-14  The cardiovascular effects of selective estrogen receptor modulators. 2006, 1092, 374-84	18 121 8 32
1279 1278 1277 1276	Molecular modeling of non-covalent binding of homochiral (3S,3'S)-astaxanthin to matrix metalloproteinase-13 (MMP-13). 2006, 14, 5451-8  Construction and enzymatic degradation of multilayered poly-l-lysine/DNA films. 2006, 27, 1152-9  The pathobiology of the vessel wall: implications for imaging. 2006, 13, 402-14  The cardiovascular effects of selective estrogen receptor modulators. 2006, 1092, 374-84  Cardiovascular gene delivery: The good road is awaiting. 2006, 58, 604-29  Effect of fluid shear stress on migration of vascular smooth muscle cells in cocultured model. 2006,	18 121 8 32 50

1271	Vascular effects of TZDs: new implications. <b>2006</b> , 45, 3-18	42
1270	Intermittent short-duration exposure to low wall shear stress induces intimal thickening in arteries exposed to chronic high shear stress. <b>2006</b> , 80, 38-45	13
1269	Comparison of levels of serum matrix metalloproteinase-9 in patients with acute myocardial infarction versus unstable angina pectoris versus stable angina pectoris. <b>2006</b> , 97, 175-80	100
1268	Usefulness of multidetector computed tomography for noninvasive evaluation of coronary arteries in asymptomatic patients. <b>2006</b> , 97, 287-93	16
1267	Acceleration of matrix metalloproteinase-1 production and activation of platelet-derived growth factor receptor beta in human coronary smooth muscle cells by oxidized LDL and 4-hydroxynonenal. <b>2006</b> , 1763, 797-804	26
1266	Herpes-simplex virus encephalitis is characterized by an early MMP-9 increase and collagen type IV degradation. <b>2006</b> , 1125, 155-62	49
1265	Vascular targeting: recent advances and therapeutic perspectives. <b>2006</b> , 16, 80-8	118
1264	The role of Smad3-dependent TGF-beta signal in vascular response to injury. <b>2006</b> , 16, 240-5	15
1263	A single nucleotide polymorphism in the matrix metalloproteinase 9 gene (-8202A/G) is associated with thoracic aortic aneurysms and thoracic aortic dissection. <b>2006</b> , 131, 1045-52	50
1262	Matrix metalloproteinases in development and disease. <b>2006</b> , 78, 1-10	132
1261	Oxidation of Artery Wall Proteins by Myeloperoxidase: A Proteomics Approach. <b>2006</b> , 787-811	
1260	Lercanidipine reduces matrix metalloproteinase-9 activity in patients with hypertension. <b>2006</b> , 47, 117-22	70
1259	Arterial stiffness and extracellular matrix. <b>2007</b> , 44, 76-95	55
1258	Extracellular matrix metalloproteinase inducer regulates matrix metalloproteinase activity in cardiovascular cells: implications in acute myocardial infarction. <b>2006</b> , 113, 834-41	133
1257	Systemic tumor necrosis factor-related apoptosis-inducing ligand delivery shows antiatherosclerotic activity in apolipoprotein E-null diabetic mice. <b>2006</b> , 114, 1522-30	134
1256	Reduced levels of VEGF-A and MMP-2 and MMP-9 activity and increased TNF-alpha in menstrual endometrium and effluent in women with menorrhagia. <b>2006</b> , 21, 2158-66	42
1255	Statins: Are They All the Same?. <b>2006</b> , 1, 157-172	
1254	Connexins in atherosclerosis. <b>2006</b> , 42, 255-267	23

1253	Biological significance of decreased HSP27 in human atherosclerosis. <b>2006</b> , 26, 1337-43	84
1252	Gene therapy of fibroproliferative vasculopathies: current ideas in molecular mechanisms and biomedical technology. <b>2006</b> , 7, 1185-98	8
1251	Links between inflammation and thrombogenicity in atherosclerosis. <b>2006</b> , 6, 489-99	54
1250	The molecular mechanisms of vascular restenosis: Which genes are crucial?. <b>2006</b> , 4, 269-75	15
1249	What has been learned about the cardiovascular effects of matrix metalloproteinases from mouse models?. <b>2006</b> , 69, 585-94	45
1248	Matrix metalloproteinase inhibition attenuates aortic calcification. <b>2006</b> , 26, 1510-6	132
1247	Elevated matrix metalloproteinase-9 associated with stroke or cardiovascular death in patients with carotid stenosis. <b>2006</b> , 114, 1847-54	63
1246	ATP stimulates MMP-2 release from human aortic smooth muscle cells via JNK signaling pathway. <b>2006</b> , 290, H1988-96	15
1245	Modulation of smooth muscle cell migration by members of the low-density lipoprotein receptor family. <b>2006</b> , 26, 1246-52	32
1244	Effect of MMP-2 deficiency on atherosclerotic lesion formation in apoE-deficient mice. <b>2006</b> , 26, 1120-5	159
1243	Smoking, metalloproteinases, and vascular disease. <b>2006</b> , 26, 250-6	65
1242	Interleukin-18-induced human coronary artery smooth muscle cell migration is dependent on NF-kappaB- and AP-1-mediated matrix metalloproteinase-9 expression and is inhibited by atorvastatin. <b>2006</b> , 281, 15099-109	155
1241	Antagonism of platelet-derived growth factor by perivascular gene transfer attenuates adventitial cell migration after vascular injury: new tricks for old dogs?. <b>2006</b> , 20, 1686-8	17
1240	MMP-9 microsatellite polymorphism and susceptibility to carotid arteries atherosclerosis. <b>2006</b> , 26, 1330-6	34
1239	Ventilator-Induced Lung Injury. 2006,	3
1238	Genome-wide expression studies of atherosclerosis: critical issues in methodology, analysis, interpretation of transcriptomics data. <b>2006</b> , 26, 1226-35	44
1237	Matrix metalloproteinases regulate migration, proliferation, and death of vascular smooth muscle cells by degrading matrix and non-matrix substrates. <b>2006</b> , 69, 614-24	357
1236	Interleukin 12 induces T-cell recruitment into the atherosclerotic plaque. <i>Circulation Research</i> , <b>2006</b> , 98, 524-31	96

1235	Gasoline exhaust emissions induce vascular remodeling pathways involved in atherosclerosis. <b>2007</b> , 95, 485-94	93
1234	Apolipoprotein E knockout mice over-expressing human tissue inhibitor of metalloproteinase 1 are protected against aneurysm formation but not against atherosclerotic plaque development. <b>2006</b> , 43, 493-501	16
1233	Increased plasma concentration of matrix metalloproteinase-7 in patients with coronary artery disease. <b>2006</b> , 52, 1522-7	35
1232	Vascular responses to alpha1-adrenergic receptors in small rat mesenteric arteries depend on mitochondrial reactive oxygen species. <b>2006</b> , 26, 819-25	68
1231	Integrin-mediated transcriptional activation of inhibitor of apoptosis proteins protects smooth muscle cells against apoptosis induced by degraded collagen. <i>Circulation Research</i> , <b>2006</b> , 98, 1490-7	36
1230	TRAIL-expressing T cells induce apoptosis of vascular smooth muscle cells in the atherosclerotic plaque. <b>2006</b> , 203, 239-50	144
1229	YC-1 [3-(5'-hydroxymethyl-2'-furyl)-1-benzyl indazole] inhibits neointima formation in balloon-injured rat carotid through suppression of expressions and activities of matrix metalloproteinases 2 and 9. <b>2006</b> , 316, 35-41	37
1228	Traditional and non-traditional risk factors contribute to the development of accelerated atherosclerosis in patients with systemic lupus erythematosus. <b>2006</b> , 15, 675-82	105
1227	Expression of neutrophil gelatinase-associated lipocalin in atherosclerosis and myocardial infarction. <b>2006</b> , 26, 136-42	260
1226	Extracellular superoxide dismutase with vaccinia virus anti-inflammatory protein 35K or tissue inhibitor of metalloproteinase-1: Combination gene therapy in the treatment of vein graft stenosis in rabbits. <b>2006</b> , 17, 405-14	19
1225	Application to vascular adventitia of a nonviral vector for TIMP-1 gene therapy to prevent intimal hyperplasia. <b>2006</b> , 17, 717-27	15
1224	Mechanical loading modulates the differentiation state of vascular smooth muscle cells. <b>2006</b> , 12, 3159-70	15
1223	The role of MMP-2 and MMP-9 polymorphisms in sporadic intracranial aneurysms. <b>2006</b> , 105, 418-23	104
1222	Nitric oxide, peroxynitrite and matrix metalloproteinases: Insight into the pathogenesis of sepsis. <b>2007</b> , 367-396	
1221	Role of protein O-linked N-acetyl-glucosamine in mediating cell function and survival in the cardiovascular system. <b>2007</b> , 73, 288-97	117
1220	Nitric oxide and vascular remodeling: spotlight on the kidney. <b>2007</b> , S9-S16	17
1219	Synergistic proinflammatory effects of the antiviral cytokine interferon-alpha and Toll-like receptor 4 ligands in the atherosclerotic plaque. <b>2007</b> , 116, 2043-52	112
1218	Heparin-binding EGF-like growth factor mediates oxyhemoglobin-induced suppression of voltage-dependent potassium channels in rabbit cerebral artery myocytes. <b>2007</b> , 293, H1750-9	29

1217	Inhibition of MMP-2 gene expression with small interfering RNA in rabbit vascular smooth muscle cells. <b>2007</b> , 293, H3593-601	17
1216	Increased levels of interleukin-6 and matrix metalloproteinase-9 are of cardiac origin in acute coronary syndrome. <b>2007</b> , 41, 149-54	24
1215	Advanced glycation: a novel outlook on atherosclerosis. <b>2007</b> , 13, 3681-7	41
1214	Animal models to study plaque vulnerability. <b>2007</b> , 13, 1013-1020	11
1213	Adventitial growth factor signalling and vascular remodelling: potential of perivascular gene transfer from the outside-in. <b>2007</b> , 75, 659-68	59
1212	MRI of geometric and compositional features of vulnerable carotid plaque. <b>2007</b> , 38, 637-41	15
1211	Role of TIMP-1 and TIMP-2 in the progression of cerebral aneurysms. <b>2007</b> , 38, 2337-45	86
1210	Polymorphisms in MMP family and TIMP genes and carotid artery intima-media thickness. <b>2007</b> , 38, 2895-9	50
1209	Matrix metalloproteinases and atherogenesis in dependence of age. <b>2007</b> , 53, 63-73	24
1208	In the Search of the Vulnerable Plaque: Current Diagnostic Techniques and Future Directions. <b>2007</b> , 4, 21-29	1
1207	Elastolytic matrix metalloproteinases and coronary outcome in children with Kawasaki disease. <b>2007</b> , 61, 710-5	16
1206	Plasmin and matrix metalloproteinase system in deep venous thrombosis resolution. <b>2007</b> , 15, 366-71	8
1205	Optical Coherence Tomography in Cardiovascular Research. 2007,	28
1204	Macrophage migration inhibitory factor induces MMP-9 expression in macrophages via the MEK-ERK MAP kinase pathway. <b>2007</b> , 27, 103-9	44
1203	Gelatinolytic activity in atherosclerotic plaques is highly localized and is associated with both macrophages and smooth muscle cells in vivo. <b>2007</b> , 115, 609-16	35
1202	Elastin receptor (spliced galactosidase) occupancy by elastin peptides counteracts proinflammatory cytokine expression in lipopolysaccharide-stimulated human monocytes through NF-kappaB down-regulation. <b>2007</b> , 179, 6184-92	35
1201	Metalloproteinases in diabetics and nondiabetics during acute coronary syndromes and after 3 months. <b>2007</b> , 14, 175-83	11
1200	Deletion of macrophage LDL receptor-related protein increases atherogenesis in the mouse.  Circulation Research, 2007, 100, 670-7	112

#### (2007-2007)

1199	Phagocytic NADPH oxidase-dependent superoxide production stimulates matrix metalloproteinase-9: implications for human atherosclerosis. <b>2007</b> , 27, 587-93	71
1198	Basement membrane remodeling in skeletal muscles of patients with limb ischemia involves regulation of matrix metalloproteinases and tissue inhibitor of matrix metalloproteinases. <b>2007</b> , 44, 202-13	24
1197	Preservation of rabbit aorta elastin from degradation by gingival fibroblasts in an ex vivo model. <b>2007</b> , 27, 1984-90	20
1196	Etiology, pathogenesis and management of thoracic aortic aneurysm. <b>2007</b> , 4, 418-27	71
1195	Reducing effect of matrix metalloproteinase inhibitors on serum triacylglycerol in streptozotocin-induced diabetic rats and Zucker fa/fa rats. <b>2007</b> , 30, 1461-7	9
1194	Association of cavernous malformation within vestibular schwannoma: immunohistochemical analysis of matrix metalloproteinase-2 and -9. <b>2007</b> , 47, 509-12	7
1193	Distribution profiles of membrane Type-1 matrix metalloproteinase (MT1-MMP), matrix metalloproteinase-2 (MMP-2) and cyclooxygenase-2 (COX-2) in rabbit atherosclerosis: comparison with plaque instability analysis. <b>2007</b> , 30, 1634-40	35
1192	Proinflammatory circulating molecules in peripheral arterial disease (Review). 2007,	1
1191	Whole-body screening of atherosclerosis with magnetic resonance angiography. 2007, 18, 329-37	6
1190	Probucol [4,4'-[(1-methylethylidene)bis(thio)]bis-[2,6-bis(1,1-dimethylethyl)phenol]] inhibits compensatory remodeling and promotes lumen loss associated with atherosclerosis in apolipoprotein E-deficient mice. <b>2007</b> , 321, 477-84	20
1189	CYP2J2 and CYP2C8 polymorphisms and coronary heart disease risk: the Atherosclerosis Risk in Communities (ARIC) study. <b>2007</b> , 17, 349-58	74
1188	Molecular Mechanisms of the Antiatherogenic Action of Adiponectin. <b>2007</b> , 4, 7-9	
1187	Anti-tumor effects of Rubratoxin B on cell toxicity, inhibition of cell proliferation, cytotoxic activity and matrix metalloproteinase-2,9. <b>2007</b> , 21, 646-50	24
1186	Neutralization of the haemorrhagic activities of viperine snake venoms and venom metalloproteinases using synthetic peptide inhibitors and chelators. <b>2007</b> , 49, 734-9	65
1185	Matrix metalloproteinase circulating levels, genetic polymorphisms, and susceptibility to acute myocardial infarction among patients with coronary artery disease. <b>2007</b> , 154, 1043-51	52
1184	The role of matrix metalloproteinases in acute coronary syndromes. <b>2007</b> , 18, 463-6	9
1183	Free radicals and antioxidants in normal physiological functions and human disease. <b>2007</b> , 39, 44-84	8827
1182	TIMP-2 modulates neointimal formation in experimental ePTFE arterial grafts. <b>2007</b> , 137, 122-9	4

1181	The role of preexisting pathology in the development of neointimal hyperplasia in coronary artery bypass grafts. <b>2007</b> , 142, 351-6	6
1180	Plasmin inhibition increases MMP-9 activity and decreases vein wall stiffness during venous thrombosis resolution. <b>2007</b> , 142, 357-63	33
1179	Tanshinone IIA inhibits atherosclerotic plaque formation by down-regulating MMP-2 and MMP-9 expression in rabbits fed a high-fat diet. <b>2007</b> , 81, 1339-45	52
1178	Coronary hemodynamics and atherosclerotic wall stiffness: a vicious cycle. <b>2007</b> , 69, 349-55	32
1177	A role for matrix metalloproteinase-9 in the hemodynamic changes following acute pulmonary embolism. <b>2007</b> , 114, 22-7	35
1176	A new light on the pathophysiology of stent restenosis after coronary stent deployment: matrix metalloproteinases. <b>2007</b> , 115, 237-8	
1175	Coronary aneurysm reduced after coronary stenting. <b>2007</b> , 121, 76-7	10
1174	Topology of protease activities reflects atherothrombotic plaque complexity. <b>2007</b> , 191, 1-10	30
1173	Anti-inflammatory effects of atorvastatin: modulation by the T-786C polymorphism in the endothelial nitric oxide synthase gene. <b>2007</b> , 193, 438-44	69
1172	Selective gene silencing of either MMP-2 or MMP-9 inhibits invasion of human saphenous vein smooth muscle cells. <b>2007</b> , 193, 36-43	38
1171	Serum tissue inhibitor of metalloproteinases-1 and higher risk features of coronary plaque: a volumetric multivessel intravascular ultrasound study. <b>2007</b> , 194, e57-63	4
1170	Aggregated low density lipoproteins decrease metalloproteinase-9 expression and activity in human coronary smooth muscle cells. <b>2007</b> , 194, 326-33	28
1169	High glucose enhances MMP-2 production in adventitial fibroblasts via Akt1-dependent NF-kappaB pathway. <b>2007</b> , 581, 4189-94	25
1168	Metaloproteasa-10 (estromelisina-2): un nuevo marcador de aterosclerosis subclilica. <b>2007</b> , 19, 122-128	
1167	The aging of the heart and blood vessels: a consideration of anatomy and physiology in the era of computed tomography, magnetic resonance imaging, and positron emission tomographic imaging methods with special consideration of atherogenesis. <b>2007</b> , 37, 120-43	6
1166	Insights into degenerative aortic valve disease. <b>2007</b> , 50, 1205-13	173
1165	Farnesoid x receptor ligands inhibit vascular smooth muscle cell inflammation and migration. <b>2007</b> , 27, 2606-11	124
1164	Matrix metalloproteinases in peripheral vascular disease. <b>2007</b> , 45, 849-57	92

## (2007-2007)

1163	<b>2007</b> , 75, 813-20	33
1162	Metalloproteinase-2 and -9 in diabetic and nondiabetic subjects during acute coronary syndromes. <b>2007</b> , 14, 45-51	29
1161	Drug-induced immunomodulation to affect the development and progression of atherosclerosis: a new opportunity?. <b>2007</b> , 5, 345-64	8
1160	Novel fluorinated derivatives of the broad-spectrum MMP inhibitors N-hydroxy-2(R)-[[(4-methoxyphenyl)sulfonyl](benzyl)- and (3-picolyl)-amino]-3-methyl-butanamide as potential tools for the molecular imaging of activated MMPs with PET. <b>2007</b> , 50, 5752-64	61
1159	Biomarkers of atherosclerotic plaque instability and rupture. <b>2007</b> , 27, 15-26	298
1158	Remodeling of experimental arteriovenous fistula with increased matrix metalloproteinase expression in rats. <b>2007</b> , 45, 804-11	44
1157	Clinical, cellular, and molecular aspects of arterial calcification. <b>2007</b> , 45 Suppl A, A57-63	46
1156	Adventitial endothelial implants reduce matrix metalloproteinase-2 expression and increase luminal diameter in porcine arteriovenous grafts. <b>2007</b> , 46, 548-556	43
1155	Elevated matrix metalloproteinase 9 and tissue inhibitor of metalloproteinase 1 in obese children and adolescents. <b>2007</b> , 56, 799-805	62
1154	Matrix metalloproteinases in premature coronary atherosclerosis: influence of inhibitors, inflammation, and genetic polymorphisms. <b>2007</b> , 149, 137-44	50
1153	[Metalloproteases, vascular remodeling and atherothrombotic syndromes]. 2007, 60, 959-67	26
1152	Role of endothelial shear stress in the natural history of coronary atherosclerosis and vascular remodeling: molecular, cellular, and vascular behavior. <b>2007</b> , 49, 2379-93	986
1151	Management of atherosclerosis with antiallergic medicine: a lesson from the mouse model. <b>2007</b> , 3, 595-9	
1150	Heart Valves. <b>2007</b> , 585-601	2
1149	Suppression of oxidized LDL-induced PDGF receptor beta activation by ginkgo biloba extract reduces MMP-1 production in coronary smooth muscle cells. <b>2007</b> , 14, 219-25	8
1148	Aspirin-triggered lipoxin A4 blocks reactive oxygen species generation in endothelial cells: A novel antioxidative mechanism. <b>2007</b> , 97, 88-98	99
1147	Coculture of endothelial and smooth muscle cells on a collagen membrane in the development of a small-diameter vascular graft. <b>2007</b> , 28, 1385-92	76
1146	Induction of the matrix metalloproteinase-2 activation system in arteries by tensile stress. Involvement of the p38 MAP-kinase pathway. <b>2007</b> , 203, 135-43	6

1145	Platelets release active matrix metalloproteinase-2 in vivo in humans at a site of vascular injury: lack of inhibition by aspirin. <b>2007</b> , 138, 221-30	42
1144	MMP-9 haplotypes and carotid artery atherosclerosis: an association study introducing a novel multicolour multiplex RealTime PCR protocol. <b>2008</b> , 38, 24-33	12
1143	Independent association of matrix metalloproteinase-10, cardiovascular risk factors and subclinical atherosclerosis. <b>2007</b> , 5, 91-7	51
1142	Serpins in thrombosis, hemostasis and fibrinolysis. <b>2007</b> , 5 Suppl 1, 102-15	248
1141	MAO-A-induced mitogenic signaling is mediated by reactive oxygen species, MMP-2, and the sphingolipid pathway. <b>2007</b> , 43, 80-9	38
1140	Carvedilol, a pharmacological antioxidant, inhibits neointimal matrix metalloproteinase-2 and -9 in experimental atherosclerosis. <b>2007</b> , 43, 1508-22	33
1139	Accumulation of immune cells and high expression of chemokines/chemokine receptors in the upstream shoulder of atherosclerotic carotid plaques. <b>2007</b> , 82, 245-55	48
1138	ESDN is a marker of vascular remodeling and regulator of cell proliferation in graft arteriosclerosis. <b>2007</b> , 7, 2098-105	19
1137	Matrix metalloproteinase-9 gene -1562C/T polymorphism mitigates preeclampsia. <b>2007</b> , 28, 709-13	26
1136	Activated alphavbeta3 integrin targeting in injury-induced vascular remodeling. 2007, 17, 5-10	4
1135	Matrix metalloproteinase and tissue inhibitor expression in atherosclerotic and nonatherosclerotic thoracic aortic aneurysms. <b>2007</b> , 133, 155-61	36
1134	Comparison between metalloproteinases-2 and -9 in healthy subjects, diabetics, and subjects with acute coronary syndrome. <b>2007</b> , 22, 361-70	55
1133	Targeting of matrix metalloproteinase activation for noninvasive detection of vulnerable atherosclerotic lesions. <b>2007</b> , 34 Suppl 1, S1-8	35
1132	A bilinear stress-strain relationship for arteries. <b>2007</b> , 28, 1307-15	15
1131	Genetic contribution to carotid vascular disease in patients with systemic lupus erythematosus. <b>2008</b> , 28, 131-3	4
1130	Arteries respond to independent control of circumferential and shear stress in organ culture. <b>2008</b> , 36, 673-84	14
1129	Gentherapie mit Matrix-Metalloproteinasen: Ein Pläoyer fä Grundlagenforschung in der Herzchirurgie. <b>2008</b> , 22, 165-169	
1128	Assessment of blood volume, vessel size, and the expression of angiogenic factors in two rat glioma models: a longitudinal in vivo and ex vivo study. <b>2008</b> , 21, 1043-56	88

#### (2008-2008)

1127	Cytochrome P450 (CYP) 2J2 gene transfection attenuates MMP-9 via inhibition of NF-kappabeta in hyperhomocysteinemia. <b>2008</b> , 215, 771-81	40
1126	Matrix metalloproteinase 9 activity leads to elastin breakdown in an animal model of Kawasaki disease. <b>2008</b> , 58, 854-63	61
1125	Association of a nonsynonymous single-nucleotide polymorphism of matrix metalloproteinase 9 with giant cell arteritis. <b>2008</b> , 58, 1849-53	26
1124	Interplay of angiotensin II and angiotensin(1-7) in the regulation of matrix metalloproteinases of human cardiocytes. <b>2008</b> , 93, 599-612	40
1123	The multifaceted contributions of leukocyte subsets to atherosclerosis: lessons from mouse models. <b>2008</b> , 8, 802-15	625
1122	Beneficial role of L-arginine in cardiac matrix remodelling in insulin resistant rats. 2008, 38, 849-56	12
1121	Comparison of MMP-2 and MMP-9 secretion from T helper 0, 1 and 2 lymphocytes alone and in coculture with macrophages. <b>2008</b> , 124, 42-50	49
1120	Circulating matrix metalloproteinase-9 levels in atherosclerotic vascular disease: a possible measurement of systemic or specific disease pathophysiology?. <b>2008</b> , 263, 620-2	7
1119	4-Hydroxynonenal enhances MMP-2 production in vascular smooth muscle cells via mitochondrial ROS-mediated activation of the Akt/NF-kappaB signaling pathways. <b>2008</b> , 45, 1487-92	75
1118	Matrix metalloproteinases and their inhibitors in vascular remodeling and vascular disease. <b>2008</b> , 75, 346-59	546
1117	Matrix metalloproteinase-9 is required for tumor vasculogenesis but not for angiogenesis: role of bone marrow-derived myelomonocytic cells. <b>2008</b> , 13, 193-205	365
1116	Lercanidipine reduces matrix metalloproteinase-2 activity and reverses vascular dysfunction in renovascular hypertensive rats. <b>2008</b> , 591, 224-30	41
1115	Cordycepin inhibits vascular smooth muscle cell proliferation. <b>2008</b> , 597, 64-9	56
1114	Protocatechuic acid from Alpinia oxyphylla promotes migration of human adipose tissue-derived stromal cells in vitro. <b>2008</b> , 599, 24-31	11
1113	Lercanidipine decreases vascular matrix metalloproteinase-2 activity and protects against vascular dysfunction in diabetic rats. <b>2008</b> , 599, 110-6	27
1112	Candidate gene association studies in abdominal aortic aneurysm disease: a review and meta-analysis. <b>2008</b> , 35, 19-30	85
1111	Regional heterogeneity within the aorta: relevance to aneurysm disease. 2008, 136, 1123-30	104
	Atherosclerotic plaque stabilitywhat determines the fate of a plaque?. <b>2008</b> , 51, 183-94	

1109	Role of bone marrow renin-angiotensin system in the pathogenesis of atherosclerosis. 2008, 118, 268-76	32
1108	Differential effect of atorvastatin and fenofibrate on plasma oxidized low-density lipoprotein, inflammation markers, and cell adhesion molecules in patients with type 2 diabetes mellitus. <b>2008</b> , 57, 380-6	38
1107	Three matrix metalloproteinases are required in vivo for macrophage migration during embryonic development. <b>2008</b> , 125, 1059-70	43
1106	Local Regulation of Microvascular Perfusion. <b>2008</b> , 161-284	7
1105	Vascular closure devices: begin with the end in mind. 2008, 51, 1416-7; author reply 1417	1
1104	Reply. <b>2008</b> , 51, 1416	
1103	PhotoPoint photodynamic therapy promotes stabilization of atherosclerotic plaques and inhibits plaque progression. <b>2008</b> , 52, 1024-32	60
1102	Molecular imaging of matrix metalloproteinase in atherosclerotic lesions: resolution with dietary modification and statin therapy. <b>2008</b> , 52, 1847-1857	105
1101	Local Regulation of Microvascular Perfusion. <b>2008</b> , 161-284	32
1100	Established and emerging vascular risk factors and the development of aortic stenosis: an opportunity for prevention?. <b>2008</b> , 12, 809-20	10
1099	Nanoparticles in Biomedical Imaging. 2008,	23
1098	Bioengineering in Cell and Tissue Research. 2008,	5
1097	A close relationship between functional polymorphism in the promoter region of matrix metalloproteinase-9 and acute myocardial infarction. <b>2008</b> , 127, 430-2	29
1096	Progress in matrix metalloproteinase research. <b>2008</b> , 29, 290-308	502
1095	Regulation of mRNAs encoding MMP-9 and MMP-2, and their inhibitors TIMP-1 and TIMP-2 by androgens in the rat ventral prostate. <b>2008</b> , 294, 10-8	13
1094	Effect of hormones on matrix metalloproteinases gene regulation in human aortic smooth muscle cells. <b>2008</b> , 148, 94-9	28
1093	Tanshinone IIA downregulates the CD40 expression and decreases MMP-2 activity on atherosclerosis induced by high fatty diet in rabbit. <b>2008</b> , 115, 217-22	74
1092	Comparison of matrix metalloproteinase 9 and brain natriuretic peptide as clinical biomarkers in chronic heart failure. <b>2008</b> , 155, 992-7	23

1091	Urotensin-II and cardiovascular remodeling. <b>2008</b> , 29, 764-9	34
1090	Intra-aneurysmal hemodynamics in a large middle cerebral artery aneurysm with wall atherosclerosis. <b>2008</b> , 70, 454-62; discussion 462	16
1089	Urokinase-type plasminogen activator and metalloproteinase-2 are independently related to the carotid atherosclerosis in haemodialysis patients. <b>2008</b> , 121, 543-8	13
1088	Flavonoid glycosides isolated from Salicornia herbacea inhibit matrix metalloproteinase in HT1080 cells. <b>2008</b> , 22, 1742-8	95
1087	Transgenic model of smooth muscle cell cycle reentry: expression pattern of the collageneous matrix. <b>2008</b> , 17, 72-80	2
1086	Co-culture induces alignment in engineered cardiac constructs via MMP-2 expression. <b>2008</b> , 373, 360-5	40
1085	Hic-5, an adaptor protein expressed in vascular smooth muscle cells, modulates the arterial response to injury in vivo. <b>2008</b> , 376, 682-7	16
1084	Elevated serum levels of intercellular adhesion molecule ICAM-1 in Pseudoxanthoma elasticum. <b>2008</b> , 394, 54-8	5
1083	Multiphasic roles for matrix metalloproteinases after stroke. <b>2008</b> , 8, 82-9	189
1082	Carotid intima-media thickness and markers of inflammation, endothelial damage and hemostasis. <b>2008</b> , 40, 21-44	71
1081	The benefit of docosahexanoic acid on the migration of vascular smooth muscle cells is partially dependent on Notch regulation of MMP-2/-9. <b>2008</b> , 172, 1430-40	44
1080	Identifying the vulnerable plaque: A review of invasive and non-invasive imaging modalities. <b>2008</b> , 2, 21	14
1079	Large brachial and common carotid artery diameter in postmenopausal women with carotid atherosclerosis. <b>2008</b> , 196, 443-448	17
1078	Ceramide: a common pathway for atherosclerosis?. <b>2008</b> , 196, 497-504	106
1077	Toll-like receptor 4 gene (Asp299Gly) polymorphism associates with carotid artery elasticity. The cardiovascular risk in young Finns study. <b>2008</b> , 198, 152-9	26
1076	Metalloproteinase inhibition ameliorates hypertension and prevents vascular dysfunction and remodeling in renovascular hypertensive rats. <b>2008</b> , 198, 320-31	155
1075	Metalloproteinases-2, -9 and TIMP-1 expression in stable and unstable coronary plaques undergoing PCI. <b>2008</b> , 127, 350-7	33
1074	A randomized, controlled trial of the effects of rosiglitazone on adipokines, and inflammatory and fibrinolytic markers in diabetic patients: study design and protocol. <b>2008</b> , 24, e65-9	1

1073	High serum level of matrix metalloproteinase-1 and its rapid surge after intervention in patients with significant carotid atherosclerosis. <b>2008</b> , 107, 93-8		12
1072	Caracter¤ticas cl¤icas, bases celulares y moleculares de la hipertensi¤ arterial del anciano. <b>2008</b> , 131, 387-395		1
1071	Osteopontin promoter polymorphism is associated with increased carotid intima-media thickness. <b>2008</b> , 21, 954-60		23
1070	Synthesis and evaluation of a novel fluorescent photoprobe for imaging matrix metalloproteinases. <b>2008</b> , 19, 1001-8		47
1069	Accurate targeting of activated macrophages based on synergistic activation of functional molecules uptake by scavenger receptor and matrix metalloproteinase. <b>2008</b> , 3, 471-9		13
1068	Co-culture of primary neural progenitor and endothelial cells in a macroporous gel promotes stable vascular networks in vivo. <b>2008</b> , 19, 1469-85		19
1067	Molecular imaging of activated matrix metalloproteinases in vascular remodeling. <b>2008</b> , 118, 1953-60		85
1066	Increased matrix metalloproteinase 2 activity in the human internal mammary artery is associated with ageing, hypertension, diabetes and kidney dysfunction. <b>2008</b> , 45, 357-62		29
1065	Serum or plasma samples? The "Cinderella" role of blood collection procedures: preanalytical methodological issues influence the release and activity of circulating matrix metalloproteinases and their tissue inhibitors, hampering diagnostic trueness and leading to misinterpretation. <b>2008</b> ,		69
	28, 611-4		
1064	E-cadherin/beta-catenin/T-cell factor pathway is involved in smooth muscle cell proliferation elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , <b>2008</b> , 103, 694-701	15.7	44
		<i></i>	26
1063	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , <b>2008</b> , 103, 694-701		
1063	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , <b>2008</b> , 103, 694-701  Peroxisome proliferator-activated receptor and age-related macular degeneration. <b>2008</b> , 2008, 389507		26
1063	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , <b>2008</b> , 103, 694-701  Peroxisome proliferator-activated receptor and age-related macular degeneration. <b>2008</b> , 2008, 389507  Mechanisms of intimal hyperplasia learned from a murine carotid artery ligation model. <b>2008</b> , 6, 37-43  Possible role of NFkappaB in the embryonic vascular remodeling and the endothelial mesenchymal		26
1063 1062 1061	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , <b>2008</b> , 103, 694-701  Peroxisome proliferator-activated receptor and age-related macular degeneration. <b>2008</b> , 2008, 389507  Mechanisms of intimal hyperplasia learned from a murine carotid artery ligation model. <b>2008</b> , 6, 37-43  Possible role of NFkappaB in the embryonic vascular remodeling and the endothelial mesenchymal transition process. <b>2008</b> , 2, 17-29  Serum matrix metalloproteinase-9 and coronary heart disease: a prospective study in middle-aged		26 29 17
1063 1062 1061 1060	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , 2008, 103, 694-701  Peroxisome proliferator-activated receptor and age-related macular degeneration. 2008, 2008, 389507  Mechanisms of intimal hyperplasia learned from a murine carotid artery ligation model. 2008, 6, 37-43  Possible role of NFkappaB in the embryonic vascular remodeling and the endothelial mesenchymal transition process. 2008, 2, 17-29  Serum matrix metalloproteinase-9 and coronary heart disease: a prospective study in middle-aged men. 2008, 101, 785-91  The endothelin receptor antagonist CPU0213 is more effective than aminoguanidine to attenuate isoproterenol-induced vascular abnormality by suppressing overexpression of NADPH oxidase [correction of oxidas], ETA, ETB, and MMP9 in the vasculature. 2008, 52, 42-8		26 29 17
1063 1062 1061 1060	elicited by oxidized low-density lipoprotein. <i>Circulation Research</i> , 2008, 103, 694-701  Peroxisome proliferator-activated receptor and age-related macular degeneration. 2008, 2008, 389507  Mechanisms of intimal hyperplasia learned from a murine carotid artery ligation model. 2008, 6, 37-43  Possible role of NFkappaB in the embryonic vascular remodeling and the endothelial mesenchymal transition process. 2008, 2, 17-29  Serum matrix metalloproteinase-9 and coronary heart disease: a prospective study in middle-aged men. 2008, 101, 785-91  The endothelin receptor antagonist CPU0213 is more effective than aminoguanidine to attenuate isoproterenol-induced vascular abnormality by suppressing overexpression of NADPH oxidase [correction of oxidas], ETA, ETB, and MMP9 in the vasculature. 2008, 52, 42-8		26 29 17 39

#### (2008-2008)

1055	Diabetes and vessel wall remodelling: from mechanistic insights to regenerative therapies. <b>2008</b> , 78, 265-73	110
1054	A therapeutic dose of doxorubicin activates ubiquitin-proteasome system-mediated proteolysis by acting on both the ubiquitination apparatus and proteasome. <b>2008</b> , 295, H2541-50	62
1053	Effects of nebivolol on endothelial gene expression during oxidative stress in human umbilical vein endothelial cells. <b>2008</b> , 2008, 367590	31
1052	Evaluation of matrix metalloproteinases in atherosclerosis using a novel noninvasive imaging approach. <b>2008</b> , 28, 425-32	139
1051	Advanced Glycation and ROS: a link between diabetes and heart failure. 2008, 6, 44-51	43
1050	Matrix metalloproteinase expression in the ascending aorta and aortic valve. 2008, 7, 37-40	46
1049	Cocoa procyanidins inhibit expression and activation of MMP-2 in vascular smooth muscle cells by direct inhibition of MEK and MT1-MMP activities. <b>2008</b> , 79, 34-41	32
1048	Two-photon microscopy on vital carotid arteries: imaging the relationship between collagen and inflammatory cells in atherosclerotic plaques. <b>2008</b> , 13, 044022	29
1047	Protective role of CXC receptor 4/CXC ligand 12 unveils the importance of neutrophils in atherosclerosis. <i>Circulation Research</i> , <b>2008</b> , 102, 209-17	322
1046	Mechanisms of varicose vein formation: valve dysfunction and wall dilation. <b>2008</b> , 23, 85-98	162
1045	Effects of reduced cyclic stretch on vascular smooth muscle cell function of pig carotids perfused ex vivo. <b>2008</b> , 21, 425-31	43
1044	Critical role of bone marrow angiotensin II type 1 receptor in the pathogenesis of atherosclerosis in apolipoprotein E deficient mice. <b>2008</b> , 28, 90-6	55
1043	Rapid recruitment of temporally distinct vascular gene sets by estrogen. <b>2008</b> , 22, 2544-56	21
1042	Pravastatin increases the expression of the tissue inhibitor of matrix metalloproteinase-1 and the oncogene Bax in human aortic abdominal aneurysms. <b>2008</b> , 86, 431-7	12
1041	Group IVA phospholipase A2-associated production of MMP-9 in macrophages and formation of atherosclerotic lesions. <b>2008</b> , 31, 363-8	10
1040	Matrix metalloproteinases in venous tissue remodeling and varicose vein formation. 2008, 6, 158-72	43
1039	Diet-induced hyperhomocysteinemia exacerbates vascular reverse remodeling of balloon-injured arteries in rat. <b>2008</b> , 121, 2265-2271	11
1038	Drug-eluting stents. <b>2008</b> , 83-99	

1037	Chemokine Lkn-1/CCL15 enhances matrix metalloproteinase-9 release from human macrophages and macrophage-derived foam cells. <b>2008</b> , 2, 134-7	11
1036	Molecular events in the cardiomyopathy of sepsis. 2008, 14, 327-36	90
1035	Metalloproteinases and atherothrombosis: MMP-10 mediates vascular remodeling promoted by inflammatory stimuli. <b>2008</b> , 13, 2916-21	70
1034	The Effects of Darbepoetin on Peritoneal Fibrosis Induced by Chemical Peritonitis and on Peritoneal Tissue Mmp-2 and Timp-2 Levels in Rats. <b>2009</b> , 7, 87-95	2
1033	Aneurisma del cayado afitico roto: Reparacifi exitosa en un solo perfido de paro circulatorio. <b>2009</b> , 137,	
1032	Lack of association between matrix metalloproteinase-9 and endothelial nitric oxide synthase gene polymorphisms and coronary artery disease in Turkish population. <b>2009</b> , 28, 343-50	29
1031	MMP-2 and MMP-9 alteration in response to collaring in rabbits: the effects of endothelin receptor antagonism. <b>2009</b> , 14, 292-301	10
1030	Relations of matrix remodeling biomarkers to blood pressure progression and incidence of hypertension in the community. <b>2009</b> , 119, 1101-7	52
1029	Hemodynamics and axial strain additively increase matrix remodeling and MMP-9, but not MMP-2, expression in arteries engineered by directed remodeling. <b>2009</b> , 15, 1281-90	15
1028	Radionuclide imaging of tumor angiogenesis. <b>2009</b> , 24, 637-47	39
1027	Shear stress, reactive oxygen species, and arterial structure and function. <b>2009</b> , 11, 1699-709	32
1026	The effects of low-dose erythropoiesis-stimulating agents on peritoneal fibrosis induced by chemical peritonitis and on peritoneal tissue MMP-2 and TIMP-2 Levels in rats. <b>2009</b> , 31, 567-72	1
1025	Differential effects of mechanical and biological stimuli on matrix metalloproteinase promoter activation in the thoracic aorta. <b>2009</b> , 120, S262-8	39
1024	Binding of extracellular maspin to beta1 integrins inhibits vascular smooth muscle cell migration. <b>2009</b> , 284, 27712-20	20
1023	Vascular regeneration: engineering the stem cell microenvironment. <b>2009</b> , 4, 435-47	17
1022	A genetic polymorphism of matrix metalloproteinase 9 (MMP-9) affects the changes in circulating MMP-9 levels induced by highly active antiretroviral therapy in HIV patients. <b>2009</b> , 9, 265-73	22
1021	Vehicular emissions induce vascular MMP-9 expression and activity associated with endothelin-1-mediated pathways. <b>2009</b> , 29, 511-7	122
1020	Loss of matrix metalloproteinase 2 in platelets reduces arterial thrombosis in vivo. <b>2009</b> , 206, 2365-79	69

## (2009-2009)

1019	Losartan metabolite EXP3179 blocks NADPH oxidase-mediated superoxide production by inhibiting protein kinase C: potential clinical implications in hypertension. <b>2009</b> , 54, 744-50	54
1018	Simvastatin reduces OX40 and OX40 ligand expression in human peripheral blood mononuclear cells and in patients with atherosclerotic cerebral infarction. <b>2009</b> , 37, 601-10	7
1017	Alterations of pulse pressure stimulate arterial wall matrix remodeling. 2009, 131, 101011	18
1016	Utility of hyaluronan oligomers and transforming growth factor-beta1 factors for elastic matrix regeneration by aneurysmal rat aortic smooth muscle cells. <b>2009</b> , 15, 3247-60	22
1015	Non-invasive assessment of vulnerable plaque. <b>2009</b> , 3, 53-66	3
1014	Getting neointimal: the emergence of heparanase into the vascular matrix. <i>Circulation Research</i> , <b>2009</b> , 104, 277-9	4
1013	The plastic nature of the vascular wall: a continuum of remodeling events contributing to control of arteriolar diameter and structure. <b>2009</b> , 24, 45-57	153
1012	Circulating matrix metalloproteinase-2 is an independent correlate of proteinuria in patients with chronic kidney disease. <b>2009</b> , 29, 109-15	24
1011	Atherosclerosis and matrix metalloproteinases: experimental molecular MR imaging in vivo. <b>2009</b> , 251, 429-38	73
1010	Upregulation of matrix metalloproteinase-2 in the arterial vasculature contributes to stiffening and vasomotor dysfunction in patients with chronic kidney disease. <b>2009</b> , 120, 792-801	93
1009	Transcatheter aortic valve implantation and potential role of 3D imaging. <b>2009</b> , 6, 411-21	6
1008	Expression and role of the calcium-sensing receptor in the blood vessel wall. <b>2009</b> , 10, 282-8	14
1007	MMP-12, a novel matrix metalloproteinase associated with giant cell arteritis. 2009, 48, 1460-1	13
1006	Transmural pressure and axial loading interactively regulate arterial remodeling ex vivo. <b>2009</b> , 297, H475-84	24
1005	Matrix metalloproteinase-2 and -9 exacerbate arterial stiffening and angiogenesis in diabetes and chronic kidney disease. <b>2009</b> , 84, 494-504	90
1004	Aspirin inhibits MMP-2 and MMP-9 expressions and activities through upregulation of PPARalpha/gamma and TIMP gene expressions in ox-LDL-stimulated macrophages derived from human monocytes. <b>2009</b> , 83, 18-25	42
1003	Interstitial flow promotes vascular fibroblast, myofibroblast, and smooth muscle cell motility in 3-D collagen I via upregulation of MMP-1. <b>2009</b> , 297, H1225-34	68
1002	Protein O-GlcNAcylation: a new signaling paradigm for the cardiovascular system. <b>2009</b> , 296, H13-28	118

1001	Matrix metalloproteinases in medial arterial calcification: potential mechanisms and actions. <b>2009</b> , 17 Suppl 1, S40-4		26
1000	Peroxisome proliferator-activated receptor {delta} regulates extracellular matrix and apoptosis of vascular smooth muscle cells through the activation of transforming growth factor-{beta}1/Smad3. <i>Circulation Research</i> , <b>2009</b> , 105, 16-24	15.7	44
999	Infection with human cytomegalovirus alters the MMP-9/TIMP-1 balance in human macrophages. <b>2009</b> , 83, 830-5		30
998	Genome-wide association scan identifies variants near Matrix Metalloproteinase (MMP) genes on chromosome 11q21-22 strongly associated with serum MMP-1 levels. <b>2009</b> , 2, 329-37		19
997	The protein synthesis inhibitor anisomycin induces macrophage apoptosis in rabbit atherosclerotic plaques through p38 mitogen-activated protein kinase. <b>2009</b> , 329, 856-64		47
996	MMP-9 sheds the beta2 integrin subunit (CD18) from macrophages. <b>2009</b> , 8, 1044-60		69
995	Endothelial nitric oxide deficiency reduces MMP-13-mediated cleavage of ICAM-1 in vascular endothelium: a role in atherosclerosis. <b>2009</b> , 29, 27-32		37
994	Cell response to matrix mechanics: focus on collagen. <b>2009</b> , 1793, 893-902		84
993	Association of neutrophil gelatinase-associated lipocalin with the severity of coronary artery disease. <b>2009</b> , 104, 917-20		78
992	Rosuvastatin inhibits MMP-2 expression and limits the progression of atherosclerosis in LDLR-deficient mice. <b>2009</b> , 40, 345-51		26
991	Influence of genetic polymorphism in matrix metalloproteinase-3 on extent of coronary atherosclerosis and risk of coronary artery stenosis. <b>2009</b> , 40, 600-4		10
990	Insulin-induced NADPH oxidase activation promotes proliferation and matrix metalloproteinase activation in monocytes/macrophages. <b>2009</b> , 46, 1058-67		33
989	Antioxidant treatment reduces matrix metalloproteinase-2-induced vascular changes in renovascular hypertension. <b>2009</b> , 46, 1298-307		134
988	Integrin alpha(v)beta(3), metalloproteinases, and sphingomyelinase-2 mediate urokinase mitogenic effect. <b>2009</b> , 21, 1925-34		14
987	Molecular pathology in vulnerable carotid plaques: correlation with [18]-fluorodeoxyglucose positron emission tomography (FDG-PET). <b>2009</b> , 37, 714-21		111
986	Monocyte chemoattractant protein-1 (MCP-1)/CCL2 secreted by hepatic myofibroblasts promotes migration and invasion of human hepatoma cells. <b>2010</b> , 126, 1095-108		51
985	Naringin inhibits matrix metalloproteinase-9 expression and AKT phosphorylation in tumor necrosis factor-alpha-induced vascular smooth muscle cells. <b>2009</b> , 53, 1582-91		61
984	Capability of human umbilical cord blood progenitor-derived endothelial cells to form an efficient lining on a polyester vascular graft in vitro. <b>2009</b> , 5, 1147-57		15

## (2009-2009)

983	Aspirin inhibits MMP-2 and MMP-9 expression and activity through PPARalpha/gamma and TIMP-1-mediated mechanisms in cultured mouse celiac macrophages. <b>2009</b> , 32, 233-41	33
982	Prediction of coronary artery plaque progression and potential rupture from 320-detector row prospectively ECG-gated single heart beat CT angiography: Lattice Boltzmann evaluation of endothelial shear stress. <b>2009</b> , 25, 289-299	46
981	Montelukast inhibits matrix metalloproteinases expression in atherosclerotic rabbits. 2009, 23, 431-7	8
980	IL-17 stimulates migration of carotid artery vascular smooth muscle cells in an MMP-9 dependent manner via p38 MAPK and ERK1/2-dependent NF-kappaB and AP-1 activation. <b>2009</b> , 29, 1161-8	51
979	Realistic Temporal Variations of Shear Stress Modulate MMP-2 and MCP-1 Expression in Arteriovenous Vascular Access. <b>2009</b> , 2, 591-605	15
978	Proteomics of acute coronary syndromes. <b>2009</b> , 11, 188-95	33
977	Dual molecular imaging for targeting metalloproteinase activity and apoptosis in atherosclerosis: molecular imaging facilitates understanding of pathogenesis. <b>2009</b> , 16, 753-62	44
976	Elevated circulating levels of matrix metalloproteinases MMP-2 and MMP-9 in pseudoxanthoma elasticum patients. <b>2009</b> , 87, 965-70	22
975	Circulating stromelysin concentration is elevated in hypertensive aortic root dilatation. 2009, 24, 138-41	7
974	Genetics of C-reactive protein and complement factor H have an epistatic effect on carotid artery compliance: the Cardiovascular Risk in Young Finns Study. <b>2009</b> , 155, 53-8	13
973	Roles of matrix metalloproteinases in flow-induced outward vascular remodeling. 2009, 29, 1547-58	60
972	Physiopathologie de lāthfosclfose et marqueurs prĉoces. <b>2009</b> , 2009, 41-50	1
971	Assessment of matrix metalloproteinase (MMP)-2, MMP-8, MMP-9, and their inhibitors, the tissue inhibitors of metalloproteinase (TIMP)-1 and TIMP-2 in obese children and adolescents. <b>2009</b> , 42, 984-90	49
970	A new 18F-labelled derivative of the MMP inhibitor CGS 27023A for PET: radiosynthesis and initial small-animal PET studies. <b>2009</b> , 67, 606-10	52
969	2008 Landis Award lecture. Inflammation and the autodigestion hypothesis. <b>2009</b> , 16, 289-306	24
968	El inhibidor tisular de la metaloproteinasa-1 es un marcador temprano de disfunciñ endotelial en un modelo murino de lesiñ oxidativa venosa. <b>2009</b> , 23, 551-559	
967	Synthesis and evaluation of a novel hydroxamate based fluorescent photoprobe for imaging of matrix metalloproteinases. <b>2009</b> , 20, 904-12	28
966	Effect of rosiglitazone, metformin and medical nutrition treatment on arterial stiffness, serum MMP-9 and MCP-1 levels in drug naive type 2 diabetic patients. <b>2009</b> , 86, 44-50	23

965	Polymorphisms of MMP-3 and TIMP-4 genes affect angiographic coronary plaque progression in non-diabetic and type 2 diabetic patients. <b>2009</b> , 405, 97-103	15
964	Different circulating metalloproteinases profiles in women with migraine with and without aura. <b>2009</b> , 408, 60-4	29
963	Differential control of MMP and t-PA/PAI-1 expressions by sympathetic and renin-angiotensin systems in rat left ventricle. <b>2009</b> , 150, 27-32	9
962	Thrombin regulates matrix metalloproteinase-9 expression in human monocytes. <b>2009</b> , 385, 241-6	24
961	Nitrite or sildenafil, but not BAY 41-2272, blunt acute pulmonary embolism-induced increases in circulating matrix metalloproteinase-9 and oxidative stress. <b>2009</b> , 124, 349-55	26
960	Markers of inflammation, thrombosis and endothelial activation correlate with carotid IMT regression in stable coronary disease after atorvastatin treatment. <b>2009</b> , 19, 481-90	24
959	Patterns of gelatinase activation induced by injury in the murine femoral artery. 2009, 154, 135-42	12
958	AP-1 inhibits expression of MMP-2/9 and its effects on rat smooth muscle cells. <b>2009</b> , 157, e31-7	13
957	Progestogens and target tissues: vascular systems. <b>2009</b> , 62, 356-61	6
956	Regulation of vascular smooth muscle cell expression and function of matrix metalloproteinases is mediated by estrogen and progesterone exposure. <b>2009</b> , 49, 185-91	41
955	Serum levels of matrix metalloproteinases -1,-2,-3 and -9 in thoracic aortic diseases and acute myocardial ischemia. <b>2009</b> , 4, 59	28
954	Endothelial Cell Dysfunction and Oxidative Stress. <b>2009</b> , 143-167	2
953	To prevent, protect and save the ischemic heart: antioxidants revisited. <b>2009</b> , 13, 945-56	40
952	Placentation abnormalities in the pathophysiology of preeclampsia. <b>2009</b> , 9, 37-49	44
951	Vascular damage in giant cell arteritis. <b>2009</b> , 42, 596-604	38
950	Prevention and regression of hypertension: role of renal microvascular protection. <b>2009</b> , 32, 658-64	14
949	Benzo[a]pyrene induces expression of matrix metalloproteinases and cell migration and invasion of vascular smooth muscle cells. <b>2009</b> , 184, 44-9	21
948	Les fibres lastiques : un rgulateur du vieillissement normal ou pathologique des vaisseaux sanguins lastiques. <b>2009</b> , 1, 64-75	1

### (2009-2009)

947	The role of interleukin 18 in the pathogenesis of hypertension-induced vascular disease. <b>2009</b> , 6, 192-9	59
946	Potential implications of matrix metalloproteinase-9 in assessment and treatment of coronary artery disease. <b>2009</b> , 14, 118-29	31
945	Transforming growth factor beta 1 and hyaluronan oligomers synergistically enhance elastin matrix regeneration by vascular smooth muscle cells. <b>2009</b> , 15, 501-11	48
944	High glucose and interferon gamma synergistically stimulate MMP-1 expression in U937 macrophages by increasing transcription factor STAT1 activity. <b>2009</b> , 202, 363-71	20
943	Gender specific associations between matrix metalloproteinases and inflammatory markers in post myocardial infarction patients. <b>2009</b> , 202, 550-6	28
942	Attenuation of inflammation and expansive remodeling by Valsartan alone or in combination with Simvastatin in high-risk coronary atherosclerotic plaques. <b>2009</b> , 203, 387-94	28
941	Association of circulating matrix metalloproteinase-1, but not adiponectin, with advanced coronary artery disease. <b>2009</b> , 204, 293-7	16
940	Vascular remodeling in ApoE-deficient mice: diet dependent modulation after carotid ligation. <b>2009</b> , 204, 96-104	10
939	A meprin inhibitor suppresses atherosclerotic plaque formation in ApoE-/- mice. 2009, 207, 84-92	18
~-0	Malanda in a sign of Saciaban making diabana di manana 2000, 20, 6505, 22	
938	Molecular imaging: a primer for interventionalists and imagers. <b>2009</b> , 20, S505-22	1
938	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. <b>2009</b> , 61, 76-85	36
	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide	
937	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. <b>2009</b> , 61, 76-85  Tissue inhibitor of metalloproteinase-1 is an early marker of acute endothelial dysfunction in a	36
937	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. 2009, 61, 76-85  Tissue inhibitor of metalloproteinase-1 is an early marker of acute endothelial dysfunction in a rodent model of venous oxidative injury. 2009, 23, 498-505  L'inhibiteur tissulaire de la mtalloprotinase-1 est un marqueur proce de dysfonction aiguil	36
937 936 935	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. 2009, 61, 76-85  Tissue inhibitor of metalloproteinase-1 is an early marker of acute endothelial dysfunction in a rodent model of venous oxidative injury. 2009, 23, 498-505  L'inhibiteur tissulaire de la mtalloprotinase-1 est un marqueur proce de dysfonction aiguil endothiale dans un modit de lision veineuse oxydative chez le rongeur. 2009, 23, 538-546	36
937 936 935 934	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. 2009, 61, 76-85  Tissue inhibitor of metalloproteinase-1 is an early marker of acute endothelial dysfunction in a rodent model of venous oxidative injury. 2009, 23, 498-505  L'inhibiteur tissulaire de la mtalloprotinase-1 est un marqueur proce de dysfonction aiguil endothliale dans un modite de lision veineuse oxydative chez le rongeur. 2009, 23, 538-546  Response to Letter by Yetkin and Waltenberger. 2009, 40,  Activated protein C improves lipopolysaccharide-induced cardiovascular dysfunction by decreasing	36 10
<ul><li>937</li><li>936</li><li>935</li><li>934</li><li>933</li></ul>	Activation of nicotinamide N-methyltrasferase and increased formation of 1-methylnicotinamide (MNA) in atherosclerosis. 2009, 61, 76-85  Tissue inhibitor of metalloproteinase-1 is an early marker of acute endothelial dysfunction in a rodent model of venous oxidative injury. 2009, 23, 498-505  L'inhibiteur tissulaire de la mtalloprotinase-1 est un marqueur preoce de dysfonction aiguil endothiale dans un modite de lision veineuse oxydative chez le rongeur. 2009, 23, 538-546  Response to Letter by Yetkin and Waltenberger. 2009, 40,  Activated protein C improves lipopolysaccharide-induced cardiovascular dysfunction by decreasing tissular inflammation and oxidative stress. 2009, 37, 246-55	36 10 1 68

929	Carotid Artery Disease: Current Concepts on Endothelial Dysfunction and Matrix Remodeling. <b>2009</b> , 4, 202-213	1
928	Anti-proliferative compounds for the prevention of restenosis. <b>2010</b> , 16, 3989-4001	8
927	Matrix metalloproteinases in vascular diseasea potential therapeutic target?. 2010, 8, 75-85	50
926	A New Hypothesis for Insulin Resistance in Hypertension Due to Receptor Cleavage. <b>2010</b> , 5, 149-158	20
925	Relationship between multiple plasma biomarkers and vulnerable plaque determined by virtual histology intravascular ultrasound. <b>2010</b> , 74, 332-6	21
924	Stromal cell biologya way to understand the evolution of cardiovascular diseases. <b>2010</b> , 74, 1042-50	10
923	Urokinase plasminogen activator independent early experimental thrombus resolution: MMP2 as an alternative mechanism. <b>2010</b> , 104, 1174-83	30
922	Preventing restenosis in early drug-eluting stent era: recent developments and future perspectives. <b>2004</b> , 56, 1339-56	12
921	Evaluation of recombinant endostatin in the treatment of atherosclerotic plaques and neovascularization in rabbits. <b>2010</b> , 11, 599-607	16
920	Chemokines in the vascular inflammatory response of atherosclerosis. <b>2010</b> , 86, 192-201	146
920 919	Chemokines in the vascular inflammatory response of atherosclerosis. <b>2010</b> , 86, 192-201  Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. <b>2010</b> , 37, 2093-104	146 28
	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody:	
919	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. <b>2010</b> , 37, 2093-104	28
919	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. 2010, 37, 2093-104  ADAMTS proteases: key roles in atherosclerosis?. 2010, 88, 1203-11  Elevated level of ADAMTS4 in plasma and peripheral monocytes from patients with acute coronary	28
919 918 917	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. 2010, 37, 2093-104  ADAMTS proteases: key roles in atherosclerosis?. 2010, 88, 1203-11  Elevated level of ADAMTS4 in plasma and peripheral monocytes from patients with acute coronary syndrome. 2010, 99, 781-6  Immunohistochemical detection of MMP-2 and MMP-9 in a stasis-induced deep vein thrombosis	28 61 16
919 918 917 916	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. 2010, 37, 2093-104  ADAMTS proteases: key roles in atherosclerosis?. 2010, 88, 1203-11  Elevated level of ADAMTS4 in plasma and peripheral monocytes from patients with acute coronary syndrome. 2010, 99, 781-6  Immunohistochemical detection of MMP-2 and MMP-9 in a stasis-induced deep vein thrombosis model and its application to thrombus age estimation. 2010, 124, 439-44  Molecular imaging of inflammation and intraplaque vasa vasorum: a step forward to identification	28 61 16 37
919 918 917 916 915	Imaging with radiolabelled anti-membrane type 1 matrix metalloproteinase (MT1-MMP) antibody: potentials for characterizing atherosclerotic plaques. 2010, 37, 2093-104  ADAMTS proteases: key roles in atherosclerosis?. 2010, 88, 1203-11  Elevated level of ADAMTS4 in plasma and peripheral monocytes from patients with acute coronary syndrome. 2010, 99, 781-6  Immunohistochemical detection of MMP-2 and MMP-9 in a stasis-induced deep vein thrombosis model and its application to thrombus age estimation. 2010, 124, 439-44  Molecular imaging of inflammation and intraplaque vasa vasorum: a step forward to identification of vulnerable plaques?. 2010, 17, 897-912  Risk of coronary artery stenosis in Iranian type 2 diabetics: is there a role for matrix	28 61 16 37

## (2010-2010)

911	Characterization and in vitro and in vivo testing of CB2-receptor- and NGAL-targeted paramagnetic micelles for molecular MRI of vulnerable atherosclerotic plaque. <b>2010</b> , 12, 635-51	14
910	Targeting tissue oxidative damage by means of cell signaling modulators: the antioxidant concept revisited. <b>2010</b> , 128, 336-74	58
909	4-Hydroxynonenal enhances MMP-9 production in murine macrophages via 5-lipoxygenase-mediated activation of ERK and p38 MAPK. <b>2010</b> , 242, 191-8	34
908	Matrix metalloproteinases, a disintegrin and metalloproteinases, and a disintegrin and metalloproteinases with thrombospondin motifs in non-neoplastic diseases. <b>2010</b> , 60, 477-96	178
907	Evidence for the involvement of matrix metalloproteinases in the cardiovascular effects produced by nicotine. <b>2010</b> , 627, 216-22	22
906	Detection of matrix metallopeptidase-9-like proteins in Trypanosoma cruzi. <b>2010</b> , 125, 256-63	22
905	Elevation of ADAM10, ADAM17, MMP-2 and MMP-9 expression with media degeneration features CaCl2-induced thoracic aortic aneurysm in a rat model. <b>2010</b> , 89, 72-81	28
904	Inhibition of matrix metalloproteinase-9 attenuates acute small-for-size liver graft injury in rats. <b>2010</b> , 10, 784-795	31
903	Radiofluorinated pyrimidine-2,4,6-triones as molecular probes for noninvasive MMP-targeted imaging. <b>2010</b> , 5, 777-89	52
902	Underlying mechanism for suppression of vascular smooth muscle cells by green tea polyphenol EGCG released from biodegradable polymers for stent application. <b>2010</b> , 95, 424-33	12
901	A combined molecular modeling study on gelatinases and their potent inhibitors. <b>2010</b> , 31, 24-42	15
900	Increased restenosis rate after implantation of drug-eluting stents in patients with elevated serum activity of matrix metalloproteinase-2 and -9. <b>2010</b> , 3, 90-7	31
899	Induced elastin regeneration by chronically activated smooth muscle cells for targeted aneurysm repair. <b>2010</b> , 6, 170-8	22
898	Cell-laden microengineered gelatin methacrylate hydrogels. <b>2010</b> , 31, 5536-44	1458
897	A novel assay for extracellular matrix remodeling associated with liver fibrosis: An enzyme-linked immunosorbent assay (ELISA) for a MMP-9 proteolytically revealed neo-epitope of type III collagen. <b>2010</b> , 43, 899-904	157
896	Hemodynamic predictors of aortic dilatation in bicuspid aortic valve by velocity-encoded cardiovascular magnetic resonance. <b>2010</b> , 12, 4	99
895	Implication of adenylyl cyclase 8 in pathological smooth muscle cell migration occurring in rat and human vascular remodelling. <b>2010</b> , 221, 331-42	12
894	Matrix metalloproteinase-2 regulates the expression of tissue inhibitor of matrix metalloproteinase-2. <b>2010</b> , 37, 1096-101	4

893	Regulatory role of mitochondria in oxidative stress and atherosclerosis. <b>2010</b> , 2, 150-9	47
892	Advanced glycation end product-mediated matrix metallo-proteinase-9 and apoptosis via renin-angiotensin system in type 2 diabetes. <b>2010</b> , 17, 578-89	18
891	Selective inhibitory effect of epigallocatechin-3-gallate on migration of vascular smooth muscle cells. <b>2010</b> , 15, 8488-500	9
890	Crucial role of renin-angiotensin system in the pathogenesis of atherosclerosis. <b>2010</b> , 57, 12-25	79
889	4 Diagnosis of Cardiovascular Diseases. <b>2010</b> ,	
888	The vessel wall: A forgotten player in post thrombotic syndrome. <b>2010</b> , 104, 681-92	38
887	The effects of interferon alpha2b on chemically-induced peritoneal fibrosis and on peritoneal tissue MMP-2 and TIMP-2 levels in rats. <b>2010</b> , 38, 187-94	2
886	Toll-like receptor 4-deficient mice are resistant to chronic hypoxia-induced pulmonary hypertension. <b>2010</b> , 36, 111-9	34
885	Arterial stiffness: a brief review. <b>2010</b> , 31, 1267-76	175
884	Relationship between arterial and fibrous cap remodeling: a serial three-vessel intravascular ultrasound and optical coherence tomography study. <b>2010</b> , 3, 484-90	28
883	Associations between collagen synthesis and degradation and aortic function in arterial hypertension. <b>2010</b> , 23, 488-94	29
882	Enhanced matrix metalloproteinase activity in the spontaneously hypertensive rat: VEGFR-2 cleavage, endothelial apoptosis, and capillary rarefaction. <b>2010</b> , 47, 423-31	60
881	Vein tissue expression of matrix metalloproteinase as biomarker for hemodialysis arteriovenous fistula maturation. <b>2010</b> , 44, 674-9	9
880	Nuclear receptor Nur77 inhibits vascular outward remodelling and reduces macrophage accumulation and matrix metalloproteinase levels. <b>2010</b> , 87, 561-8	35
879	Intravital molecular imaging of small-diameter tissue-engineered vascular grafts in mice: a feasibility study. <b>2010</b> , 16, 597-607	34
878	Antioxidant and antiproliferative properties of strawberry tree tissues. <b>2010</b> , 1, 3-12	35
877	AP-1 (Fra-1/c-Jun)-mediated induction of expression of matrix metalloproteinase-2 is required for 15S-hydroxyeicosatetraenoic acid-induced angiogenesis. <b>2010</b> , 285, 16830-43	30
876	Association of circulating matrix metalloproteinases with carotid artery characteristics: the Atherosclerosis Risk in Communities Carotid MRI Study. <b>2010</b> , 30, 1034-42	30

## (2010-2010)

875	A novel urokinase receptor-targeted inhibitor for plasmin and matrix metalloproteinases suppresses vein graft disease. <b>2010</b> , 88, 367-75	18
874	Molecular imaging of matrix metalloproteinase activation to predict murine aneurysm expansion in vivo. <b>2010</b> , 51, 1107-15	37
873	Inhibition of matrix metalloproteinase activity in vivo protects against vascular hyporeactivity in endotoxemia. <b>2010</b> , 298, H45-51	51
872	Matrix metalloproteinases. <b>2010</b> , 17, 3751-68	160
871	Vein wall remodeling after deep vein thrombosis: differential effects of low molecular weight heparin and doxycycline. <b>2010</b> , 24, 233-41	40
870	Effects of standard treatment on the dynamics of matrix metalloproteinases gene expression in patients with acute coronary syndromes. <b>2010</b> , 62, 1108-16	3
869	A rat tracheal model to investigate stent-induced tissue hyperplasia: a pilot study. <b>2010</b> , 21, 1878-83	11
868	Remodelage de la paroi veineuse apr\(\mathbb{I}\) thrombose veineuse profonde : effets des h\(\parai\)arines de bas poids mol\(\cap{culor}\)ulaire et de la doxycycline. <b>2010</b> , 24, 256-265	
867	The Integrated Role of Biomaterials and Stem Cells in Vascular Regeneration. 2010, 195-223	3
866	Synthetic Niches for Stem Cell Differentiation into T cells. <b>2010</b> , 225-245	1
865	Effect of an antimicrobial agent on atherosclerotic plaques: assessment of metalloproteinase activity by molecular imaging. <b>2010</b> , 55, 1240-1249	28
864	In vivo suppression of vein graft disease by nonviral, electroporation-mediated, gene transfer of tissue inhibitor of metalloproteinase-1 linked to the amino terminal fragment of urokinase (TIMP-1.ATF), a cell-surface directed matrix metalloproteinase inhibitor. <b>2010</b> , 51, 429-37	16
863	Activation of transglutaminase type 2 for aortic wall protection in a rat abdominal aortic aneurysm formation. <b>2010</b> , 52, 967-74	9
862	Enhanced tyrosine nitration of prostacyclin synthase is associated with increased inflammation in atherosclerotic carotid arteries from type 2 diabetic patients. <b>2010</b> , 176, 2542-9	30
861	Increasing high-density lipoprotein as a therapeutic target in atherothrombotic disease. <b>2010</b> , 63, 323-33	5
860	Metalloproteinase and stroke infarct size: role for anti-inflammatory treatment?. <b>2010</b> , 1207, 123-33	117
859	Blockade of TGF-Iby catheter-based local intravascular gene delivery does not alter the in-stent neointimal response, but enhances inflammation in pig coronary arteries. <b>2010</b> , 145, 468-75	14
858	MMP-2 induced vein relaxation via inhibition of [Ca2+]e-dependent mechanisms of venous smooth muscle contraction. Role of RGD peptides. <b>2010</b> , 159, 755-64	41

857	Differential effect of wall tension on matrix metalloproteinase promoter activation in the thoracic aorta. <b>2010</b> , 160, 333-9	17
856	Serum levels of matrix metalloproteinase-2 as a marker of intimal hyperplasia. <b>2010</b> , 160, 9-13	20
855	LRP1 regulates remodeling of the extracellular matrix by fibroblasts. <b>2010</b> , 29, 22-30	18
854	Imbalance between matrix metalloproteinases and tissue inhibitor of metalloproteinases in hypertensive vascular remodeling. <b>2010</b> , 29, 194-201	94
853	ADAMTS4 level in patients with stable coronary artery disease and acute coronary syndromes. <b>2010</b> , 64, 160-4	14
852	O-GlcNAc modification, insulin signaling and diabetic complications. <b>2010</b> , 36, 423-35	104
851	Matrix metalloproteinase (MMP)-9 genotypes and haplotypes in preeclampsia and gestational hypertension. <b>2010</b> , 411, 874-7	35
850	Role of NMDA receptor in homocysteine-induced activation of mitogen-activated protein kinase and phosphatidyl inositol 3-kinase pathways in cultured human vascular smooth muscle cells. <b>2010</b> , 125, e23-32	25
849	7-Ketocholesterol and cholesterol-5alpha,6alpha-epoxide induce smooth muscle cell migration and proliferation through the epidermal growth factor receptor/phosphoinositide 3-kinase/Akt signaling pathways. <b>2010</b> , 197, 88-96	16
848	Angiotensin II induces EMMPRIN expression in THP-1 macrophages via the NF-kappaB pathway. <b>2010</b> , 163, 88-95	12
847	Extracellular matrix alterations in hypertensive vascular remodeling. 2010, 48, 433-9	127
846	Participation of 5-lipoxygenase-derived LTB(4) in 4-hydroxynonenal-enhanced MMP-2 production in vascular smooth muscle cells. <b>2010</b> , 208, 56-61	31
845	Prospective study of matrix metalloproteinase-9 and risk of myocardial infarction and stroke in older men and women. <b>2010</b> , 208, 557-63	59
844	MMP2 genetic variation is associated with measures of fibrous cap thickness: The Atherosclerosis Risk in Communities Carotid MRI Study. <b>2010</b> , 210, 188-93	20
843	AT1 blockade attenuates atherosclerotic plaque destabilization accompanied by the suppression of cathepsin S activity in apoE-deficient mice. <b>2010</b> , 210, 430-7	35
842	Gax gene transfer inhibits vascular remodeling induced by adventitial inflammation in rabbits. <b>2010</b> , 212, 398-405	14
841	Incremento de las HDL como arma teraplitica en la aterotrombosis. <b>2010</b> , 63, 323-333	13
840	Smooth muscle cell hypertrophy, proliferation, migration and apoptosis in pulmonary hypertension. <b>2011</b> , 1, 295-317	78

839	Biomaterials as Stem Cell Niche. <b>2010</b> ,	1
838	Molecular regulation of contractile smooth muscle cell phenotype: implications for vascular tissue engineering. <b>2010</b> , 16, 467-91	253
837	Biomarkers of Cardiac Injury. <b>2010</b> , 119-155	1
836	Effects of disturbed flow on vascular endothelium: pathophysiological basis and clinical perspectives. <b>2011</b> , 91, 327-87	1300
835	Evaluating smooth muscle cells from CaCl2-induced rat aortal expansions as a surrogate culture model for study of elastogenic induction of human aneurysmal cells. <b>2011</b> , 17, 1945-58	20
834	Elastogenic inductability of smooth muscle cells from a rat model of late stage abdominal aortic aneurysms. <b>2011</b> , 17, 1699-711	30
833	Arterial stiffness: from physiology to clinical implications. <b>2011</b> , 18, 1-12	27
832	A key role for matrix metalloproteinases and neutral sphingomyelinase-2 in transplant vasculopathy triggered by anti-HLA antibody. <b>2011</b> , 124, 2725-34	33
831	Increased mean platelet volume is associated with arterial stiffness. <b>2011</b> , 22, 447-51	54
830	Impact of LIMK1, MMP2 and TNF-⊞ariations for intracranial aneurysm in Japanese population. <b>2011</b> , 56, 211-6	30
829	Microribonucleic acids for prevention of plaque rupture and in-stent restenosis: "a finger in the dam". <b>2011</b> , 57, 383-9	28
828	THE AUTODIGESTION HYPOTHESIS AND RECEPTOR CLEAVAGE IN DIABETES AND HYPERTENSION. <b>2011</b> , 8, 37-46	4
827	Analysis of matrix metalloproteinase-9 gene polymorphism -1562 C/T in patients suffering from systemic sclerosis with and without ulcers. <b>2011</b> , 27, 873-7	9
826	Biomarkers for diagnosis of the vulnerable atherosclerotic plaque. <b>2011</b> , 3, 223-233	6
825	Matrix metalloproteinases: targets for doxycycline to prevent the vascular alterations of hypertension. <b>2011</b> , 64, 567-72	67
824	Matrix metalloproteinase inhibitor properties of tetracyclines: therapeutic potential in cardiovascular diseases. <b>2011</b> , 64, 551-60	66
823	Neutrophil gelatinase-associated lipocalin levels in isolated coronary artery ectasia. <b>2011</b> , 27, 773-8	8
822	The expression of a disintegrin and metalloproteinase with thrombospondin motifs 4 in human macrophages is inhibited by the anti-atherogenic cytokine transforming growth factor-land requires Smads, p38 mitogen-activated protein kinase and c-Jun. <b>2011</b> , 43, 805-11	16

821	Modulating effects of matrix metalloproteinase-3 and -9 polymorphisms on aortic stiffness and aortic root dilation in patients after tetralogy of Fallot repair. <b>2011</b> , 151, 214-7	6
820	Polymorphisms in MMP-9 and TIMP-2 in Chinese patients with varicose veins. <b>2011</b> , 168, e143-8	26
819	Postthrombotic vein wall remodeling: preliminary observations. <b>2011</b> , 53, 139-46	56
818	Serum metalloproteinases MMP-2, MMP-9, and metalloproteinase tissue inhibitors in patients are associated with arteriovenous fistula maturation. <b>2011</b> , 54, 454-9; discussion 459-60	28
817	Discussion. <b>2011</b> , 54, 459-460	4
816	Nitroglycerin alters matrix remodeling proteins in THP-1 human macrophages and plasma metalloproteinase activity in rats. <b>2011</b> , 24, 66-76	7
815	Large brachial artery diameter and diabetes in post-menopausal women. <b>2011</b> , 21, 830-4	1
814	Polymorphisms of matrix metalloproteinases in myocardial infarction: a meta-analysis. <b>2011</b> , 97, 1542-6	36
813	Anti-Metalloproteinase-9 Activities of Selected Indonesian Zingiberaceae Rhizome Extracts in Lipopolysaccharide-Induced Human Vascular Endothelial Cells In Vitro. <b>2011</b> , 7, 1-9	2
812	Proliferation unleashed: the role of Skp2 in vascular smooth muscle cell proliferation. <b>2011</b> , 16, 1517-35	11
811	Angiotensin II induces NF- <b>B</b> , JNK and p38 MAPK activation in monocytic cells and increases matrix metalloproteinase-9 expression in a PKC- andRho kinase-dependent manner. <b>2011</b> , 44, 193-9	14
810	Primary hyperparathyroidism influences the expression of inflammatory and metabolic genes in adipose tissue. <b>2011</b> , 6, e20481	28
809	Ezetimibe and reactive oxygen species. <b>2011</b> , 9, 109-20	5
808	Physiopathologie et tiopathoghie de l'infarctus du myocarde. <b>2011</b> , 6, 1-14	
807	Cardiovascular risk and endothelial dysfunction: the preferential route for atherosclerosis. <b>2011</b> , 12, 1343-53	35
806	Combinatorial interference of toll-like receptor 2 and 4 synergistically stabilizes atherosclerotic plaque in apolipoprotein E-knockout mice. <b>2011</b> , 15, 602-11	12
805	Constituents in purple sweet potato leaves inhibit in vitro angiogenesis with opposite effects ex vivo. <b>2011</b> , 27, 1177-82	14
804	Dynamic changes of matrix metalloproteinases and their tissue inhibitors in severe sepsis. <b>2011</b> , 26, 550-5	29

# (2011-2011)

803	Elevated levels of circulating matrix metalloproteinase-9 are associated with a dysregulated cortisol rhythmA case-control study of coronary artery disease. <b>2011</b> , 36, 139-43	14
802	Annexin A1 expression in atherosclerotic carotid plaques and its relationship with plaque characteristics. <b>2011</b> , 41, 364-71	26
801	Low molecular weight fucoidan prevents intimal hyperplasia in rat injured thoracic aorta through the modulation of matrix metalloproteinase-2 expression. <b>2011</b> , 81, 233-43	46
800	Immune responses to implants - a review of the implications for the design of immunomodulatory biomaterials. <b>2011</b> , 32, 6692-709	902
799	A multi-layered computational model of coupled elastin degradation, vasoactive dysfunction, and collagenous stiffening in aortic aging. <b>2011</b> , 39, 2027-45	49
798	A shear stress responsive gene product PP1201 protects against Fas-mediated apoptosis by reducing Fas expression on the cell surface. <b>2011</b> , 16, 162-73	25
797	Molecular imaging in cancer treatment. <b>2011</b> , 38, 358-77	64
796	Comparative study on antioxidant effects and vascular matrix metalloproteinase-2 downregulation by dihydropyridines in renovascular hypertension. <b>2011</b> , 383, 35-44	25
795	Effects of statins on matrix metalloproteinases and their endogenous inhibitors in human endothelial cells. <b>2011</b> , 383, 547-54	54
794	The association of the metalloproteinase-3 gene promoter polymorphisms and the middle cerebral artery stenosis. <b>2011</b> , 59, 185-9	6
793	Cysteine Protease Cathepsins in Atherosclerosis and Abdominal Aortic Aneurysm. <b>2011</b> , 9, 138-147	16
792	F-18-FDG Imaging for Atherosclerotic Plaque Characterization. <b>2011</b> , 4, 190-198	4
791	Procyanidins inhibit tumor angiogenesis by crosslinking extracellular matrix. <b>2011</b> , 23, 99-106	10
790	Videodensitometric analysis of advanced carotid plaque: correlation with MMP-9 and TIMP-1 expression. <b>2011</b> , 9, 24	2
789	Enzymatic- and temperature-sensitive controlled release of ultrasmall superparamagnetic iron oxides (USPIOs). <b>2011</b> , 9, 7	18
788	Assessment of MMP-9, TIMP-1, and COX-2 in normal tissue and in advanced symptomatic and asymptomatic carotid plaques. <b>2011</b> , 9, 6	5
787	Emerging applications of nanotechnology for the diagnosis and management of vulnerable atherosclerotic plaques. <b>2011</b> , 3, 620-46	14
786	Involvement of membrane type 1-matrix metalloproteinase (MT1-MMP) in RAGE activation signaling pathways. <b>2011</b> , 226, 1554-63	18

785	Activating transcription factor 3 regulates survivability and migration of vascular smooth muscle cells. <b>2011</b> , 63, 62-9	26
784	A fluorescence lifetime spectroscopy study of matrix metalloproteinases-2 and -9 in human atherosclerotic plaque. <b>2011</b> , 4, 650-8	8
783	Development and validation of an enzyme-linked immunosorbent assay for the quantification of a specific MMP-9 mediated degradation fragment of type III collagenA novel biomarker of atherosclerotic plaque remodeling. <b>2011</b> , 44, 900-6	25
782	The MMP inhibitor (R)-2-(N-benzyl-4-(2-[18F]fluoroethoxy)phenylsulphonamido)-N-hydroxy-3-methylbutanamide: Improved precursor synthesis and fully automated radiosynthesis. <b>2011</b> , 69, 862-8	24
781	Abrupt increase in rat carotid blood flow induces rapid alteration of artery mechanical properties. <b>2011</b> , 4, 9-15	9
7 <sup>8</sup> 0	Platelets release matrix metalloproteinase-2 in the coronary circulation of patients with acute coronary syndromes: possible role in sustained platelet activation. <b>2011</b> , 32, 316-25	53
779	Connective tissue growth factor antibody therapy attenuates hyperoxia-induced lung injury in neonatal rats. <b>2011</b> , 45, 1169-77	59
778	Fibroblast activation protein is induced by inflammation and degrades type I collagen in thin-cap fibroatheromata. <b>2011</b> , 32, 2713-22	80
777	Local bone marrow Renin-Angiotensin system and atherosclerosis. <b>2010</b> , 2011, 714515	12
776	Retinoblastoma protein modulates the inverse relationship between cellular proliferation and elastogenesis. <b>2011</b> , 286, 36580-91	14
775	Effect of doxycycline on atherosclerosis: from bench to bedside. <b>2011</b> , 6, 42-54	6
774	Monitoring of arterial wall remodelling in atherosclerotic rabbits with a magnetic resonance imaging contrast agent binding to matrix metalloproteinases. <b>2011</b> , 32, 1561-71	46
773	Protease-activated receptor-1 antagonist F 16618 reduces arterial restenosis by down-regulation of tumor necrosis factor hand matrix metalloproteinase 7 expression, migration, and proliferation of vascular smooth muscle cells. <b>2011</b> , 336, 643-51	40
772	Matrix metalloproteinases: keys to healthier blood vessels in diabetes?. <b>2011</b> , 210, 1-2	9
771	Association of a functional polymorphism in the MMP7 gene promoter with susceptibility to vulnerable carotid plaque in a Han Chinese population. <b>2011</b> , 49, 1735-41	8
770	Genotype association of C(-735)T polymorphism of the MMP-2 gene with the risk of carotid atherosclerosis-vulnerable plaque in the Han Chinese population. <b>2011</b> , 16, 13-8	14
769	Insulin treatment attenuates diabetes-increased atherosclerotic intimal lesions and matrix metalloproteinase 9 expression in apolipoprotein E-deficient mice. <b>2011</b> , 210, 37-46	14
768	Role of lysyl oxidases in neointima development in vascular allografts. <b>2011</b> , 48, 43-51	6

767	Matrix metalloproteinase activation predicts amelioration of remodeling after dietary modification in injured arteries. <b>2011</b> , 31, 102-9	23
766	Nuclear factor kappa B and matrix metalloproteinase induced receptor cleavage in the spontaneously hypertensive rat. <b>2011</b> , 57, 261-8	40
765	Relationship between circulating levels of RANTES (regulated on activation, normal T-cell expressed, and secreted) and carotid plaque characteristics: the Atherosclerosis Risk in Communities (ARIC) Carotid MRI Study. <b>2011</b> , 32, 459-68	43
764	Molecular MRI of murine atherosclerotic plaque targeting NGAL: a protein associated with unstable human plaque characteristics. <b>2011</b> , 89, 680-8	62
763	Atherosclerosis plaque heterogeneity and response to therapy detected by in vivo molecular imaging of matrix metalloproteinase activation. <b>2011</b> , 52, 1795-802	53
762	Induced elastic matrix deposition within three-dimensional collagen scaffolds. <b>2011</b> , 17, 2879-89	27
761	Heart rate-associated mechanical stress impairs carotid but not cerebral artery compliance in dyslipidemic atherosclerotic mice. <b>2011</b> , 301, H2081-92	38
760	Doxycycline, a matrix metalloprotease inhibitor, reduces vascular remodeling and damage after cerebral ischemia in stroke-prone spontaneously hypertensive rats. <b>2011</b> , 301, H87-97	57
759	Somatic mutations activating STAT3 in human inflammatory hepatocellular adenomas. <b>2011</b> , 208, 1359-66	193
758	Hematopoietic interferon regulatory factor 8-deficiency accelerates atherosclerosis in mice. <b>2012</b> , 32, 1613-23	36
757	Portulaca oleracea Ameliorates Diabetic Vascular Inflammation and Endothelial Dysfunction in db/db Mice. <b>2012</b> , 2012, 741824	24
756	Regenerative therapies for diabetic microangiopathy. <b>2012</b> , 2012, 916560	23
755	Angiotensin II enhances AT1-Nox1 binding and stimulates arterial smooth muscle cell migration and proliferation through AT1, Nox1, and interleukin-18. <b>2012</b> , 303, H282-96	75
754	Anti-inflammatory properties of sirtuin 6 in human umbilical vein endothelial cells. <b>2012</b> , 2012, 597514	94
753	Elevated levels of MMP-9 in untreated patients with stage I essential hypertension. 2012, 34, 561-6	9
752	Matrix metalloproteinase-2 proteolysis of calponin-1 contributes to vascular hypocontractility in endotoxemic rats. <b>2012</b> , 32, 662-8	35
751	Atherosclerosis, platelets and thrombosis in acute ischaemic heart disease. <b>2012</b> , 1, 60-74	173
750	Mean platelet volume is increased in patients with bicuspid aortic valve. <b>2012</b> , 18, 351-5	10

749	Biomarkers associated with pulse pressure in African-Americans and non-Hispanic whites. <b>2012</b> , 25, 145-51	19
748	Vascular remodeling alters adhesion protein and cytoskeleton reactions to inflammatory stimuli resulting in enhanced permeability increases in rat venules. <b>2012</b> , 113, 1110-20	17
747	Inhibiting matrix metalloproteinases, an old story with new potentials for cancer treatment. <b>2012</b> , 12, 707-17	18
746	Biomarkers associated with vulnerable atheromatous plaque. <b>2012</b> , 19, 2588-96	5
745	On the origin of matrix metalloproteinase-2 and -9 in blood platelets. <b>2012</b> , 23, 467-74	11
744	Potentiation of aspirin-induced cerebroprotection by minocycline: a therapeutic approach to attenuate exacerbation of transient focal cerebral ischaemia. <b>2012</b> , 9, 25-34	14
743	Matrix metalloproteinase-2 functional promoter polymorphism G1575A is associated with elevated circulatory MMP-2 levels and increased risk of cardiovascular disease in systemic lupus erythematosus patients. <b>2012</b> , 21, 616-24	26
742	Therapeutic strategies to combat neointimal hyperplasia in vascular grafts. <b>2012</b> , 10, 635-47	62
741	Biomechanical comparison of human pulmonary and aortic roots. <b>2012</b> , 41, 1111-6	39
740	Gleditsia sinensis thorn extract inhibits proliferation and TNF-Induced MMP-9 expression in vascular smooth muscle cells. <b>2012</b> , 40, 373-86	23
739	Effect of estrogen therapy on vascular perlecan and metalloproteinases 2 and 9 in castrated rats. <b>2013</b> , 16, 147-53	10
738	Molecular and Translational Vascular Medicine. 2012,	
737	Increased expression of Nox1 in neointimal smooth muscle cells promotes activation of matrix metalloproteinase-9. <b>2012</b> , 49, 242-8	32
736	Disorder gene expression of extracellular matrix and adhesion molecules in saphenous vein conduits of diabetic patients. <b>2012</b> , 14, 279-82	2
735	The renin-angiotensin system in the breast and breast cancer. <b>2012</b> , 19, R1-19	47
734	Chronic matrix metalloproteinase inhibition retards age-associated arterial proinflammation and increase in blood pressure. <b>2012</b> , 60, 459-66	75
733	Thrombin and hemin as central factors in the mechanisms of intracerebral hemorrhage-induced secondary brain injury and as potential targets for intervention. <b>2012</b> , 32, E8	123
732	Metalloproteinase processing of HBEGF is a proximal event in the response of human aortic endothelial cells to oxidized phospholipids. <b>2012</b> , 32, 1246-54	14

731	Clinical and histological significance of gadolinium enhancement in carotid atherosclerotic plaque. <b>2012</b> , 43, 3023-8	74
730	Decreased fibrocyte number is associated with atherosclerotic plaque instability in man. <b>2012</b> , 95, 124-33	14
729	Inflammation in peripheral arterial disease (PAD). <b>2012</b> , 18, 4350-7	12
728	Targeting regulatory T cells in the treatment of type 1 diabetes mellitus. <b>2012</b> , 12, 1261-72	41
727	Proteomic analysis of calcified abdominal and thoracic aortic aneurysms. <b>2012</b> , 30, 417-29	23
726	Gelatin methacrylate as a promising hydrogel for 3D microscale organization and proliferation of dielectrophoretically patterned cells. <b>2012</b> , 12, 2959-69	135
725	Tissue inhibitor of matrix metalloproteinases 4 (TIMP4) in a population of young adults: relations to cardiovascular risk markers and carotid artery intima-media thickness. The Cardiovascular Risk in Young Finns Study. <b>2012</b> , 72, 540-6	7
724	Pentosan polysulfate inhibits atherosclerosis in Watanabe heritable hyperlipidemic rabbits: differential modulation of metalloproteinase-2 and -9. <b>2012</b> , 92, 236-45	12
723	Evaluating efficacy of pharmaceutical interventions in atherosclerosis: role of magnetic resonance imaging and positron emission tomography. <b>2012</b> , 79, 689-704	5
722	Euterpe oleracea Martderived polyphenols prevent endothelial dysfunction and vascular structural changes in renovascular hypertensive rats: role of oxidative stress. <b>2012</b> , 385, 1199-209	56
721	Sex-specific effect of matrix metalloproteinase-9 functional promoter polymorphism on carotid artery stiffness. <b>2012</b> , 223, 416-20	16
720	Dysregulated gene expression of extracellular matrix and adhesion molecules in saphenous vein conduits of hemodialysis patients. <b>2012</b> , 144, 684-9	3
719	Levels of cathepsins in acute myocardial infarction. <b>2012</b> , 64, 290-4	8
718	Combined QM/MM (ONIOM) and QSAR approach to the study of complex formation of matrix metalloproteinase-9 with a series of biphenylsulfonamides[IERE-QSAR analysis (V). <b>2012</b> , 116, 10283-9	12
717	Peripheral blood gene expression profile of atherosclerotic coronary artery disease in patients of different ethnicity in Malaysia. <b>2012</b> , 60, 192-203	17
716	1,4-Dihydropyridine scaffold in medicinal chemistry, the story so far and perspectives (part 2): action in other targets and antitargets. <b>2012</b> , 19, 4306-23	88
715	Genetic variants in matrix metalloproteinase-9 gene modify metalloproteinase-9 levels in black subjects. <b>2012</b> , 31, 504-10	17
714	Matrix metalloproteinase-9 genetic variations affect MMP-9 levels in obese children. <b>2012</b> , 36, 69-75	32

713	Mechanisms of post-intervention arterial remodelling. <b>2012</b> , 96, 363-71	70
712	Doxycycline ameliorates 2K-1C hypertension-induced vascular dysfunction in rats by attenuating oxidative stress and improving nitric oxide bioavailability. <b>2012</b> , 26, 162-8	51
711	Increased neointimal formation in cystathionine gamma-lyase deficient mice: role of hydrogen sulfide in \$11-integrin and matrix metalloproteinase-2 expression in smooth muscle cells. <b>2012</b> , 52, 677-88	61
710	Wild-type amyloid beta 1-40 peptide induces vascular smooth muscle cell death independently from matrix metalloprotease activity. <b>2012</b> , 11, 384-93	18
709	Interaction between MMP-9 gene polymorphisms and smoking in relation to myocardial infarction in a Uighur population. <b>2012</b> , 18, 72-8	24
708	A dynamic model of calcific nodule destabilization in response to monocyte- and oxidized lipid-induced matrix metalloproteinases. <b>2012</b> , 302, C658-65	18
707	Relationship of antihypertensive treatment to plasma markers of vascular inflammation and remodeling in the Comparison of Amlodipine versus Enalapril to Limit Occurrences of Thrombosis study. <b>2012</b> , 163, 735-40	7
706	Role of MT1-MMP in estrogen-mediated cellular processes of intimal hyperplasia. <b>2012</b> , 173, 224-31	17
7°5	SRC regulates sphingosine-1-phosphate mediated smooth muscle cell migration. <b>2012</b> , 175, 30-4	2
704	Human matrix metalloproteinases: an ubiquitarian class of enzymes involved in several pathological processes. <b>2012</b> , 33, 119-208	157
703	Time course involvement of matrix metalloproteinases in the vascular alterations of renovascular hypertension. <b>2012</b> , 31, 261-70	52
702		
	Corticosteroid administration for patients with coronary artery aneurysms after Kawasaki disease may be associated with impaired regression. <b>2012</b> , 154, 9-13	20
701		20
701 700	may be associated with impaired regression. <b>2012</b> , 154, 9-13  Effects of a short-term exercise training on serum factors involved in ventricular remodelling in	
	may be associated with impaired regression. 2012, 154, 9-13  Effects of a short-term exercise training on serum factors involved in ventricular remodelling in chronic heart failure patients. 2012, 155, 409-13	24
700	may be associated with impaired regression. 2012, 154, 9-13  Effects of a short-term exercise training on serum factors involved in ventricular remodelling in chronic heart failure patients. 2012, 155, 409-13  Mechanical buckling of artery under pulsatile pressure. 2012, 45, 1192-8  Changes in plasma profiles of matrix metalloproteinases (MMPs) and tissue inhibitors of MMPs in	24
700 699	may be associated with impaired regression. 2012, 154, 9-13  Effects of a short-term exercise training on serum factors involved in ventricular remodelling in chronic heart failure patients. 2012, 155, 409-13  Mechanical buckling of artery under pulsatile pressure. 2012, 45, 1192-8  Changes in plasma profiles of matrix metalloproteinases (MMPs) and tissue inhibitors of MMPs in stress-induced cardiomyopathy. 2012, 18, 487-92  Arctium lappa ameliorates endothelial dysfunction in rats fed with high fat/cholesterol diets. 2012,	24 29 16

695	Vitamin D receptor signaling inhibits atherosclerosis in mice. <b>2012</b> , 26, 1091-101	71
694	Plasma neutrophil gelatinase-associated lipocalin is independently associated with cardiovascular disease and mortality in community-dwelling older adults: The Rancho Bernardo Study. <b>2012</b> , 59, 1101-9	78
693	Metalloproteinases: key and common mediators of multiple GPCRs and candidate therapeutic targets in models of hypertensive cardiac disease. <b>2012</b> , 9, e103-e108	2
692	Cystatin-C as a predictor for major adverse cardiac events in patients with acute coronary syndrome. <b>2012</b> , 64, 87-95	1
691	Prevention of coronary in-stent restenosis and vein graft failure: does vascular gene therapy have a role?. <b>2012</b> , 136, 23-34	22
690	The rs9509 polymorphism of MMP-9 is associated with risk of hemorrhage in brain arteriovenous malformations. <b>2012</b> , 19, 1287-90	11
689	[Giant-cell arteritis pathogenesis]. <b>2012</b> , 41, 937-47	О
688	Protease-activated drug development. <b>2012</b> , 2, 156-78	187
687	Preeclampsia is associated with alterations in DNA methylation of genes involved in collagen metabolism. <b>2012</b> , 181, 1455-63	24
686	Physiological regulation of MMPs and tPA/PAI in the arterial wall of rats by noradrenergic tone and angiotensin II. <b>2012</b> , 13, 36-45	4
685	Vascular Smooth Muscle Cell Remodeling in Atherosclerosis and Restenosis. 2012, 1301-1309	1
684	Matrix metalloproteinases: a review of their structure and role in systemic sclerosis. <b>2012</b> , 32, 1409-14	50
683	Role of inflammation in the pathogenesis of arterial stiffness. <b>2012</b> , 53, 258-61	130
682	Mechanisms of arterial remodeling: lessons from genetic diseases. <b>2012</b> , 3, 290	81
681	Matrix Metalloproteinases in Coronary Artery Disease: A Review. <b>2012</b> , 4, 55-58	1
680	Endothelial and Vascular Smooth Cell Dysfunctions: A Comprehensive Appraisal. 2012,	
679	Arterial Dilatation-Related Diseases: The Prerequisite Condition of Arterial Elastic Tissue Damage and Endovascular Treatment. <b>2012</b> , 2, 65-74	
678	Vascular Smooth Muscle Cells and the Comparative Pathology of Atherosclerosis. 2012,	

677 The Aetiology of Vascular Disease. **2012**, 1-8

676	Long-term arterial adaptation to high blood flow in the feeding artery of vascular access for hemodialysis. <b>2012</b> , 13, 305-9	6
675	Matrix metalloproteinases. <b>2012</b> , 103, 1-33	38
674	Generation of human vascular smooth muscle subtypes provides insight into embryological origin-dependent disease susceptibility. <b>2012</b> , 30, 165-73	251
673	Epigenetic control of smooth muscle cell differentiation and phenotypic switching in vascular development and disease. <b>2012</b> , 74, 13-40	477
672	The distinctive nature of atherosclerotic vascular disease in diabetes: pathophysiological and morphological insights. <b>2012</b> , 12, 280-5	16
671	Matrix metalloproteinases and descending aortic aneurysms: parity, disparity, and switch. <b>2012</b> , 27, 81-90	29
670	Oral contraceptive containing chlormadinone acetate and ethinylestradiol reduces plasma concentrations of matrix metalloproteinase-2 in women with polycystic ovary syndrome. <b>2012</b> , 111, 211-6	3
669	Are we ignoring the dilated thoracic aorta?. <b>2012</b> , 1254, 164-74	10
668	Simulated remodeling of loaded collagen networks via strain-dependent enzymatic degradation and constant-rate fiber growth. <b>2012</b> , 44, 72-82	46
667	Matrice extracellulaire, physiologie et vieillissement vasculaire. <b>2012</b> , 4, 41-53	
666	An emerging role of degrading proteinases in hypertension and the metabolic syndrome: autodigestion and receptor cleavage. <b>2012</b> , 14, 88-96	14
665	Herbal formula HMC05 prevents human aortic smooth muscle cell migration and proliferation by inhibiting the ERK1/2 MAPK signaling cascade. <b>2012</b> , 66, 177-84	11
664	Extracellular 14-3-3 from human lung epithelial cells enhances MMP-1 expression. <b>2012</b> , 360, 261-70	17
663	Matrix metalloproteinase-9 functional promoter polymorphism 1562C>T increased risk of early-onset coronary artery disease. <b>2012</b> , 39, 555-62	21
662	Effect of metabolic syndrome risk factors and MMP-2 genetic variations on circulating MMP-2 levels in childhood obesity. <b>2013</b> , 40, 2697-704	20
661	Development of Latent Cytokine Fusion Proteins. <b>2013</b> , 237-252	1
660	Nitric oxide attenuates matrix metalloproteinase-9 production by endothelial cells independent of cGMP- or NF <b>B</b> -mediated mechanisms. <b>2013</b> , 378, 127-35	5

# (2013-2013)

659	Differential effects of trimetazidine on vascular smooth muscle cell and endothelial cell in response to carotid artery balloon injury in diabetic rats. <b>2013</b> , 167, 126-33	15
658	Expression of matrix metalloproteinase-12 in aortic dissection. <b>2013</b> , 13, 34	23
657	Inhibitory effects of caspase inhibitors on the activity of matrix metalloproteinase-2. <b>2013</b> , 86, 469-75	9
656	The alterations of matrix metalloproteinase-9 in mouse brainstem during herpes simplex virus type 1-induced facial palsy. <b>2013</b> , 51, 703-9	5
655	Inverse 1,2,3-triazole-1-yl-ethyl substituted hydroxamates as highly potent matrix metalloproteinase inhibitors: (radio)synthesis, in vitro and first in vivo evaluation. <b>2013</b> , 56, 6858-70	30
654	Meta-analysis of MMP9-562C/T and the risk of coronary heart disease. <b>2013</b> , 124, 53-9	11
653	Mathematical modeling of collagen turnover in biological tissue. <b>2013</b> , 67, 1765-93	18
652	Diphenyl diselenide modulates oxLDL-induced cytotoxicity in macrophage by improving the redox signaling. <b>2013</b> , 95, 1544-51	28
651	Role and mechanism of tissue plasminogen activator in venous wall fibrosis remodeling after deep venous thrombosis via the glycogen synthase kinase-3 beta signaling pathway. <b>2013</b> , 184, 1182-95	9
650	Synthesis of derivatives of methyl rosmarinate and their inhibitory activities against matrix metalloproteinase-1 (MMP-1). <b>2013</b> , 62, 148-57	20
649	Identification of a Klf4-dependent upstream repressor region mediating transcriptional regulation of the myocardin gene in human smooth muscle cells. <b>2013</b> , 1829, 1191-201	23
648	Polymorphisms of matrix metalloproteinase gene and adiposity indices in European children: results of the IDEFICS study. <b>2013</b> , 37, 1539-44	5
647	Gemfibrozil and its combination with metformin on pleiotropic effect on IL-10 and adiponectin and anti-atherogenic treatment in insulin resistant type 2 diabetes mellitus rats. <b>2013</b> , 21, 137-45	6
646	C-reactive protein induces expression of matrix metalloproteinase-9: a possible link between inflammation and plaque rupture. <b>2013</b> , 168, 981-6	35
645	Matrix metalloproteinases in autism spectrum disorders. <b>2013</b> , 1, 16	27
644	Serum lipocalin-2 levels positively correlate with coronary artery disease and metabolic syndrome. <b>2013</b> , 12, 176	19
643	Pathophysiology of atherosclerosis plaque progression. <b>2013</b> , 22, 399-411	234
642	Protective effects of protein transduction domain-metallothionein fusion proteins against hypoxia-and oxidative stress-induced apoptosis in an ischemia/reperfusion rat model. <b>2013</b> , 169, 306-12	11

641	Culprit lesion remodelling and long-term prognosis in patients with acute coronary syndrome: an intravascular ultrasound study. <b>2013</b> , 14, 758-64	5
640	Potential role of vascular smooth muscle cell-like progenitor cell therapy in the suppression of experimental abdominal aortic aneurysms. <b>2013</b> , 431, 326-31	17
639	Association between circulating matrix metalloproteinase levels and coronary plaque regression after acute coronary syndromesubanalysis of the JAPAN-ACS study. <b>2013</b> , 226, 275-80	5
638	Stress-evoked sterile inflammation, danger associated molecular patterns (DAMPs), microbial associated molecular patterns (MAMPs) and the inflammasome. <b>2013</b> , 27, 1-7	86
637	Vascular fibrosis in atherosclerosis. <b>2013</b> , 22, 401-7	104
636	Performance of a new fluorescence-labeled MMP inhibitor to image tumor MMP activity in vivo in comparison to an MMP-activatable probe. <b>2013</b> , 8, 1-11	27
635	Decreased serum bilirubin is associated with arterial stiffness in men. <b>2013</b> , 23, 375-81	22
634	Matrix metalloproteinase-2 deficiency impairs aortic atherosclerotic calcification in ApoE-deficient mice. <b>2013</b> , 227, 43-50	31
633	Effect of hormone replacement therapy in matrix metalloproteinase expression and intimal hyperplasia development after vascular injury. <b>2013</b> , 27, 337-45	11
632	The effect of matrix metalloproteinase 2 and matrix metalloproteinase 2/9 deletion in experimental post-thrombotic vein wall remodeling. <b>2013</b> , 58, 1375-1384.e2	36
631	Association between level of exposure to secondhand smoke and peripheral arterial disease: cross-sectional study of 5,686 never smokers. <b>2013</b> , 229, 273-6	26
630	Androgens regulate MMPs and the cellular processes of intimal hyperplasia. <b>2013</b> , 184, 619-27	12
629	Magnetic Resonance Imaging of Carotid Atherosclerosis and the Risk of Stroke. <b>2013</b> , 6, 25-33	2
628	Imaging Atherosclerotic Plaques with MRI: Role of Contrast Agents. <b>2013</b> , 6, 76-88	1
627	The effects and mechanisms of high loading dose rosuvastatin therapy before percutaneous coronary intervention in patients with acute coronary syndrome. <b>2013</b> , 167, 2350-3	14
626	Arterial stiffening: Causes and consequences. <b>2013</b> , 7, 22	9
625	Epigenetic regulation of vascular smooth muscle cell function in atherosclerosis. <b>2013</b> , 15, 319	29
624	Activation of cerebral recovery by matrix metalloproteinase-9 after intracerebral hemorrhage. <b>2013</b> , 230, 86-93	25

## (2013-2013)

623	A novel mouse model of atherosclerotic plaque instability for drug testing and mechanistic/therapeutic discoveries using gene and microRNA expression profiling. <i>Circulation Research</i> , <b>2013</b> , 113, 252-65	15.7	124
622	Matrix metalloproteinase-9 deletion is associated with decreased mid-term vein wall fibrosis in experimental stasis DVT. <b>2013</b> , 132, 360-6		34
621	Vitamin D receptor signaling in renal and cardiovascular protection. 2013, 33, 433-47		17
620	Interaction of NADPH oxidase 1 with Toll-like receptor 2 induces migration of smooth muscle cells. <b>2013</b> , 99, 483-93		37
619	Understanding vascular development. <b>2013</b> , 2, 327-46		76
618	Association of genetic polymorphisms in matrix metalloproteinase-9 and coronary artery disease in the Chinese Han population: a case-control study. <b>2013</b> , 17, 707-12		19
617	Lytic and mechanical stability of clots composed of fibrin and blood vessel wall components. <b>2013</b> , 11, 529-38		13
616	Deficiency of volume-regulated ClC-3 chloride channel attenuates cerebrovascular remodelling in DOCA-salt hypertension. <b>2013</b> , 100, 134-42		19
615	Intra-individual changes of active matrix metalloproteinase-9 are associated with clinical in-stent restenosis of bare metal stents. <b>2013</b> , 124, 28-35		5
614	Matrix metalloproteinases: a target in in-stent restenosis?. <b>2013</b> , 124, 49-50		O
613	Angiophagy: mechanism of microvascular recanalization independent of the fibrinolytic system. <b>2013</b> , 44, S84-6		6
612	Inhibition of Matrix Metalloproteinases (MMPs) as a Potential Strategy to Ameliorate Hypertension-Induced Cardiovascular Alterations. <b>2013</b> , 14, 335-343		2
611	Skinfold thickness as a predictor of arterial stiffness: obesity and fatness linked to higher stiffness measurements in hypertensive patients. <b>2013</b> , 35, 459-64		19
610	Matrix metalloproteinases: inflammatory regulators of cell behaviors in vascular formation and remodeling. <b>2013</b> , 2013, 928315		242
609	Preexisting high expression of matrix metalloproteinase-2 in tunica media of saphenous vein conduits is associated with unfavorable long-term outcomes after coronary artery bypass grafting. <b>2013</b> , 2013, 730721		12
608	Overexpression of matrix metalloproteinase-9 is correlated with carotid intraplaque hemorrhage in a swine model. <b>2013</b> , 5, 473-7		12
607	Association of genotypes at the matrix metalloproteinase (MMP) loci with carotid IMT and presence of carotid and femoral atherosclerotic plaques. <b>2013</b> , 18, 298-306		12
606	Variations in matrix metalloproteinase-1, -3, and -9 genes and the risk of acute coronary syndrome and coronary artery disease in the Chinese Han population. <b>2013</b> , 24, 259-65		18

605	Cardiovascular disease in lupus: insights and updates. <b>2013</b> , 25, 597-605	63
604	CONTROLLED ASYMMETRICAL DIFFERENTIATION OF MOUSE EMBRYOID BODIES IN MICROWELLS WITH DESIGNED HETEROGENEOUS BIOCHEMICAL FEATURES. <b>2013</b> , 13, 1340003	1
603	Protein Kinase C Inhibitors as Modulators of Vascular Function and their Application in Vascular Disease. <b>2013</b> , 6, 407-39	22
602	Effects of elastase and collagenase on the nonlinearity and anisotropy of porcine aorta. <b>2013</b> , 34, 1657-73	20
601	Intracellular regulation of matrix metalloproteinase-2 activity: new strategies in treatment and protection of heart subjected to oxidative stress. <b>2013</b> , 2013, 130451	20
600	Arterial Stiffness. <b>2013</b> , 1, 14-28	63
599	The effects of hypertension on the cerebral circulation. <b>2013</b> , 304, H1598-614	228
598	Matrix Metalloproteinase Inhibition Mitigates Renovascular Remodeling in Salt-Sensitive Hypertension. <b>2013</b> , 1, e00063	24
597	The effects of qindan-capsule-containing serum on the TGF-II/ERK signaling pathway, matrix metalloproteinase synthesis and cell function in adventitial fibroblasts. <b>2013</b> , 51, 712-21	9
596	Oscillometric measurement of brachial artery cross-sectional area and its relationship with cardiovascular risk factors and arterial stiffness in a middle-aged male population. <b>2013</b> , 36, 910-5	14
595	Nutritional Therapy in the Treatment of Oxidative-Stress-Induced Heart Disease. 2013, 309-324	
594	Combination treatment with asiaticoside and rapamycin: A new hope for in-stent restenosis. <b>2013</b> , 6, 557-561	3
593	The expression of glycophorin A and osteoprotegerin is locally increased in carotid atherosclerotic lesions of symptomatic compared to asymptomatic patients. <b>2013</b> , 32, 331-8	9
592	Novel Strategies to Target Inflammatory Processes in Atherosclerosis. <b>2013</b> , 19, 1616-1625	2
591	Matrix Metalloproteinases as Drug Targets in Acute Pulmonary Embolism. <b>2013</b> , 14, 344-352	
590	Angiotensin-II induced hypertension and renovascular remodelling in tissue inhibitor of metalloproteinase 2 knockout mice. <b>2013</b> , 31, 2270-81; discussion 2281	30
589	Matrix Metalloproteinases as Potential Targets in the Venous Dilation Associated with Varicose Veins. <b>2013</b> , 14, 287-324	3
588	Matrix Metalloproteinase-9 and Augmentation Index are Reduced with an 8-Week Green-Exercise Walking Programme. <b>2013</b> , 02,	2

587	Arterial ageing. <b>2013</b> , 43, 73-9	35
586	Connective Tissues of the Subendothelium. <b>2013</b> , 43-69	1
585	Platelets and matrix metalloproteinases. <b>2013</b> , 110, 903-9	51
584	Mechanical stretch increases MMP-2 production in vascular smooth muscle cells via activation of PDGFR-¶Akt signaling pathway. <b>2013</b> , 8, e70437	36
583	Breast Reconstruction Using Biofabrication-Based Tissue Engineering Strategies. <b>2013</b> , 183-216	7
582	Antioxidant effects of statins in the management of cardiometabolic disorders. <b>2014</b> , 21, 997-1010	28
581	Polymorphisms in Genes Encoding Metalloproteinase 9 and Lymphotoxin- Alpha can Influence Warfarin Treatment. <b>2014</b> , 06,	2
580	Enhanced matrix metalloproteinases-2 activates aortic endothelial hypermeability, apoptosis and vascular rarefaction in spontaneously hypertensive rat. <b>2014</b> , 57, 325-38	9
579	Multi-Modality Atherosclerosis Imaging and Diagnosis. 2014,	13
578	Plasma neutrophil gelatinase-associated lipocalinin in the general population: association with inflammation and prognosis. <b>2014</b> , 34, 2135-42	45
577	Rapid engineering of endothelial cell-lined vascular-like structures in in situ crosslinkable hydrogels. <b>2014</b> , 6, 025006	35
576	Matrix metalloproteinases in biologic samples. <b>2014</b> , 65, 199-219	8
575	NOD1 expression is increased in the adipose tissue of women with gestational diabetes. <b>2014</b> , 222, 99-112	24
574	Biomarkers of plaque instability. <b>2014</b> , 16, 547	27
573	Impact of cyclic stretch on induced elastogenesis within collagenous conduits. <b>2014</b> , 20, 1403-15	22
572	Angiotensin-(1-7) and angiotensin-(1-9): function in cardiac and vascular remodelling. <b>2014</b> , 126, 815-27	89
571	Role of bone-marrow- and non-bone-marrow-derived receptor for advanced glycation end-products (RAGE) in a mouse model of diabetes-associated atherosclerosis. <b>2014</b> , 127, 485-97	26
570	Circulating matrix metalloproteinases and tissue inhibitors of metalloproteinases levels in pediatric patients with congenital heart disease: Relationship to cardiac functions. <b>2014</b> , 14, 531-41	O

569	Clinical usefulness of novel serum and imaging biomarkers in risk stratification of patients with stable angina. <b>2014</b> , 2014, 831364	5
568	Suppression of stent-induced tissue hyperplasia in rats by using small interfering RNA to target matrix metalloproteinase-9. <b>2014</b> , 46, 507-12	3
567	[The molecular bypass: an established method for revascularisation of non-operable PAD patients or merely a future vision]. <b>2014</b> , 139, 508-17	
566	Imaging Angiogenesis. <b>2014</b> , 127-146	
565	Matrix metalloproteinases in coronary artery disease. <b>2014</b> , 64, 1-72	38
564	The role of CCL5 in the ability of adipose tissue-derived mesenchymal stem cells to support repair of ischemic regions. <b>2014</b> , 23, 488-501	26
563	Circulating osteoglycin and NGAL/MMP9 complex concentrations predict 1-year major adverse cardiovascular events after coronary angiography. <b>2014</b> , 34, 1078-84	38
562	Pathophysiology of coronary vascular remodeling: relationship with traditional risk factors for coronary artery disease. <b>2014</b> , 22, 13-6	27
561	Very high-dose cholecalciferol and arteriovenous fistula maturation in ESRD: a randomized, double-blind, placebo-controlled pilot study. <b>2014</b> , 15, 88-94	15
560	Mean platelet volume associated with aortic distensibility, chronic inflammation, and diabetes in patients with stable coronary artery disease. <b>2014</b> , 20, 416-21	19
559	Role of interstitial collagenase gene promoter polymorphism in the etiology of gastric cancer. <b>2014</b> , 20, 309-14	13
558	Effects of tobacco smoking during pregnancy on oxidative stress in the umbilical cord and mononuclear blood cells of neonates. <b>2014</b> , 21, 105	28
557	Facile and rapid generation of 3D chemical gradients within hydrogels for high-throughput drug screening applications. <b>2014</b> , 59, 166-73	30
556	TIMP-1 polymorphisms in a Chinese Han population with intracerebral hemorrhage. <b>2014</b> , 124, 61-7	10
555	Embryonic origins of human vascular smooth muscle cells: implications for in vitro modeling and clinical application. <b>2014</b> , 71, 2271-88	80
554	Smooth muscle cell phenotypic switching in stroke. <b>2014</b> , 5, 377-84	14
553	Molecular imaging of macrophage enzyme activity in cardiac inflammation. <b>2014</b> , 7, 9258	6
552	Nitric oxide-matrix metaloproteinase-9 interactions: biological and pharmacological significanceNO and MMP-9 interactions. <b>2014</b> , 1843, 603-17	65

551	Genetic component of giant cell arteritis. <b>2014</b> , 53, 6-18	62
550	Gelatine methacrylamide-based hydrogels: an alternative three-dimensional cancer cell culture system. <b>2014</b> , 10, 2551-62	130
549	Antioxidant effect of doxycycline decreases MMP activity and blood pressure in SHR. <b>2014</b> , 386, 99-105	31
548	Diabetic Cardiomyopathy. <b>2014</b> ,	2
547	Novel 19F activatable probe for the detection of matrix metalloprotease-2 activity by MRI/MRS. <b>2014</b> , 11, 4208-17	31
546	Reappraisal of quantitative gel zymography for matrix metalloproteinases. <b>2014</b> , 28, 374-80	5
545	"Inflammation and arterial stiffness in humans". <b>2014</b> , 237, 381-90	140
544	VEGF receptors mediate hypoxic remodeling of adult ovine carotid arteries. 2014, 117, 777-87	12
543	Bioreducible polymer-delivered siRNA targeting MMP-9: suppression of granulation tissue formation after bare metallic stent placement in a rat urethral model. <b>2014</b> , 271, 87-95	8
542	The Role of Smoothened and Hh Signaling in Neovascularization. <b>2014</b> , 173-205	1
541	A novel and potent inhibitor of dimethylarginine dimethylaminohydrolase: a modulator of cardiovascular nitric oxide. <b>2014</b> , 348, 69-76	24
540	Postprandial triglyceride-rich lipoproteins promote invasion of human coronary artery smooth muscle cells in a fatty-acid manner through PI3k-Rac1-JNK signaling. <b>2014</b> , 58, 1349-64	10
539	Angiotensin-converting enzyme 2 is a critical determinant of angiotensin II-induced loss of vascular smooth muscle cells and adverse vascular remodeling. <b>2014</b> , 64, 157-64	70
538	Blood Pressure and Arterial Wall Mechanics in Cardiovascular Diseases. 2014,	16
537	Curcumin improves endothelial dysfunction and vascular remodeling in 2K-1C hypertensive rats by raising nitric oxide availability and reducing oxidative stress. <b>2014</b> , 42, 44-53	67
536	Thrombosis formation on atherosclerotic lesions and plaque rupture. <b>2014</b> , 276, 618-32	268
535	An in vivo rat model of artery buckling for studying wall remodeling. <b>2014</b> , 42, 1658-67	12
534	Different biomarkers in non-small cell lung cancer in blood vessel invasion. <b>2014</b> , 70, 777-84	1

533	Potential role of proteasome on c-jun related signaling in hypercholesterolemia induced atherosclerosis. <b>2014</b> , 2, 732-8	16
532	Mechanism of matrix metalloproteinase axis-induced neointimal growth. <b>2014</b> , 66, 116-25	20
531	Low testosterone elevates interleukin family cytokines in a rodent model: a possible mechanism for the potentiation of vascular disease in androgen-deficient males. <b>2014</b> , 190, 319-27	28
530	Matrix metalloproteinase-1 and matrix metalloproteinase-12 gene polymorphisms and the risk of ischemic stroke in a Tunisian population. <b>2014</b> , 342, 107-13	19
529	Assessment of RANTES levels as the indicators of plaque vulnerability in rabbit models of atherosclerosis. <b>2014</b> , 210, 1031-7	5
528	Computational modelling suggests good, bad and ugly roles of glycosaminoglycans in arterial wall mechanics and mechanobiology. <b>2014</b> , 11, 20140397	48
527	Lipid lowering and imaging protease activation in atherosclerosis. <b>2014</b> , 21, 319-328	18
526	Blood pressure levels in male carriers of Arg82Cys in CD300LG. <b>2014</b> , 9, e109646	2
525	Ovine forestomach matrix biomaterial is a broad spectrum inhibitor of matrix metalloproteinases and neutrophil elastase. <b>2014</b> , 11, 392-7	25
524	Effects of telmisartan on inflammatory cytokines and coronary plaque component as assessed on integrated backscatter intravascular ultrasound in hypertensive patients. <b>2014</b> , 78, 240-7	20
523	Matrix metalloproteinase-2 of human carotid atherosclerotic plaques promotes platelet activation. Correlation with ischaemic events. <b>2014</b> , 111, 1089-101	14
522	Inflammation and peripheral arterial disease: the value of circulating biomarkers (Review). <b>2014</b> , 33, 777-83	49
521	Ultrasonic propagation simulations in biological tissues with application to the sonodynamic therapy based on ACTRAN. <b>2014</b> ,	
520	Aortic extra cellular matrix (ECM) remodeling. <b>2014</b> , 315-349	О
519	Identification of ApoA1, HPX and POTEE genes by omic analysis in breast cancer. <b>2014</b> , 32, 1078-86	34
518	MMPs in Biology and Medicine. <b>2015</b> , 183-214	2
517	Overexpression of mimecan in human aortic smooth muscle cells inhibits cell proliferation and enhances apoptosis and migration. <b>2015</b> , 10, 187-192	11
516	Myocardial tissue caveolae. <b>2015</b> , 5, 871-86	8

515	Variability in vascular smooth muscle cell stretch-induced responses in 2D culture. <b>2015</b> , 7, 7	33
514	Alternation of histone and DNA methylation in human atherosclerotic carotid plaques. <b>2015</b> , 114, 390-402	50
513	Evaluation of gingival crevicular fluid levels of tissue plasminogen activator, plasminogen activator inhibitor 2, matrix metalloproteinase-3 and interleukin 1-In patients with different periodontal diseases. <b>2015</b> , 50, 44-51	32
512	Soluble guanylate cyclase stimulator BAY 41-8543 and female sex ameliorate uremic aortic remodeling in a rat model of mild uremia. <b>2015</b> , 33, 1907-20; discussion 1921	3
511	. 2015,	2
510	Chinese Yellow Wine Could Inhibit Production of Matrixmetalloproteinase-2 Induced by Homocysteine in Cultured Rat Vascular Endothelial Cells. <b>2015</b> , 05,	
509	A Hypothesis for the Role of RECK in Angiogenesis. <b>2016</b> , 14, 106-15	16
508	Vulnerability of atherosclerotic plaques is associated with type I interferon in a murine model of lupus and atherosclerosis. <b>2015</b> , 14, 14871-81	12
507	Evaluation of the radiolabeled boronic acid-based FAP inhibitor MIP-1232 for atherosclerotic plaque imaging. <b>2015</b> , 20, 2081-99	23
506	Tailoring Hydrogel Viscoelasticity with Physical and Chemical Crosslinking. <b>2015</b> , 7, 2650-2669	35
		33
505	Markers of inflammation associated with plaque progression and instability in patients with carotid atherosclerosis. <b>2015</b> , 2015, 718329	98
505 504		
	atherosclerosis. <b>2015</b> , 2015, 718329  From Lipid Retention to Immune-Mediate Inflammation and Associated Angiogenesis in the	98
504	atherosclerosis. <b>2015</b> , 2015, 718329  From Lipid Retention to Immune-Mediate Inflammation and Associated Angiogenesis in the Pathogenesis of Atherosclerosis. <b>2015</b> , 22, 739-49	98 24
504	atherosclerosis. 2015, 2015, 718329  From Lipid Retention to Immune-Mediate Inflammation and Associated Angiogenesis in the Pathogenesis of Atherosclerosis. 2015, 22, 739-49  Redox Roles of Reactive Oxygen Species in Cardiovascular Diseases. 2015, 16, 27770-80  Identification of High-Risk Plaques by MRI and Fluorescence Imaging in a Rabbit Model of	98 24 151
504 503 502	atherosclerosis. 2015, 2015, 718329  From Lipid Retention to Immune-Mediate Inflammation and Associated Angiogenesis in the Pathogenesis of Atherosclerosis. 2015, 22, 739-49  Redox Roles of Reactive Oxygen Species in Cardiovascular Diseases. 2015, 16, 27770-80  Identification of High-Risk Plaques by MRI and Fluorescence Imaging in a Rabbit Model of Atherothrombosis. 2015, 10, e0139833  Adult vascular wall resident multipotent vascular stem cells, matrix metalloproteinases, and	98 24 151 14
504 503 502 501	From Lipid Retention to Immune-Mediate Inflammation and Associated Angiogenesis in the Pathogenesis of Atherosclerosis. 2015, 22, 739-49  Redox Roles of Reactive Oxygen Species in Cardiovascular Diseases. 2015, 16, 27770-80  Identification of High-Risk Plaques by MRI and Fluorescence Imaging in a Rabbit Model of Atherothrombosis. 2015, 10, e0139833  Adult vascular wall resident multipotent vascular stem cells, matrix metalloproteinases, and arterial aneurysms. 2015, 2015, 434962  Influence of Malondialdehyde and Matrix Metalloproteinase-9 on Progression of Carotid	98 24 151 14

497	The action of Metaloproteinases in the Atherosclerotic Diseases. <b>2015</b> , 39,	1
496	Pre-Diabetes, Cardiovascular Risk Factors, Arterial StiffnessADMA. <b>2015</b> , 119-130	
495	Plasma levels of matrix metalloproteinase-2, -3, -10, and tissue inhibitor of metalloproteinase-1 are associated with vascular complications in patients with type 1 diabetes: the EURODIAB Prospective Complications Study. <b>2015</b> , 14, 31	34
494	Inhibition of differentiation of monocyte to macrophages in atherosclerosis by oligomeric proanthocyanidins -In-vivo and in-vitro study. <b>2015</b> , 82, 96-105	22
493	Pathobiology and Mechanisms of Atherosclerosis. <b>2015</b> , 3-38	1
492	Multimodality and molecular imaging of matrix metalloproteinase activation in calcific aortic valve disease. <b>2015</b> , 56, 933-8	26
491	Arterial endothelial methylome: differential DNA methylation in athero-susceptible disturbed flow regions in vivo. <b>2015</b> , 16, 506	45
490	Association of Matrix Metalloproteinase 9 C-1562T Polymorphism with Genetic Susceptibility to Myocardial Infarction: A Meta-Analysis. <b>2015</b> , 77, 40-5	11
489	The Long-Term Influence of Tissue Inhibitor of Matrix Metalloproteinase-1 in Patients with Mild to Moderate Coronary Artery Lesions in a Chinese Population: A 7-Year Follow-Up Study. <b>2015</b> , 132, 151-8	9
488	In vitro hemocompatibility and cytocompatibility of dexamethasone-eluting PLGA stent coatings. <b>2015</b> , 328, 154-162	14
487	Vascular smooth muscle cell phenotypic modulation and the extracellular matrix. 2015, 9, 14	10
486	Metalloproteinases promote plaque rupture and myocardial infarction: A persuasive concept waiting for clinical translation. <b>2015</b> , 44-46, 157-66	77
485	Computational model of collagen turnover in carotid arteries during hypertension. <b>2015</b> , 31, e02705	3
484	Nitric oxide stimulates matrix synthesis and deposition by adult human aortic smooth muscle cells within three-dimensional cocultures. <b>2015</b> , 21, 1455-70	19
483	Inkjet-bioprinted acrylated peptides and PEG hydrogel with human mesenchymal stem cells promote robust bone and cartilage formation with minimal printhead clogging. <b>2015</b> , 10, 1568-77	216
482	How do we prevent the vulnerable atherosclerotic plaque from rupturing? Insights from in vivo assessments of plaque, vascular remodeling, and local endothelial shear stress. <b>2015</b> , 20, 261-75	22
481	Neurovascular protection by telmisartan via reducing neuroinflammation in stroke-resistant spontaneously hypertensive rat brain after ischemic stroke. <b>2015</b> , 24, 537-47	26
480	Artery Remodeling Under Axial Twist in Three Days Organ Culture. <b>2015</b> , 43, 1738-47	8

# (2015-2015)

479	Pentraxin 3 Induces Vascular Endothelial Dysfunction Through a P-selectin/Matrix Metalloproteinase-1 Pathway. <b>2015</b> , 131, 1495-505; discussion 1505	68
478	Expression and significance of NELIN and SM22\frac{1}{2}n varicose vein tissue. <b>2015</b> , 9, 845-849	5
477	Effects of monocyte-endothelium interactions on the expression of type IV collagenases in monocytes. <b>2015</b> , 9, 527-532	1
476	Mechanical stretch enhances the expression and activity of osteopontin and MMP-2 via the Akt1/AP-1 pathways in VSMC. <b>2015</b> , 85, 13-24	36
475	Cardiac Fibrosis and Heart Failure: Cause or Effect?. <b>2015</b> ,	3
474	Vascular smooth muscle cell differentiation to an osteogenic phenotype involves matrix metalloproteinase-2 modulation by homocysteine. <b>2015</b> , 406, 139-49	30
473	Extracellular molecules involved in cancer cell invasion. <b>2015</b> , 7, 238-65	34
472	The Smoothened Receptor in Cancer and Regenerative Medicine. <b>2015</b> ,	1
471	Matrix metalloproteinase-2 (MMP-2) gene polymorphism and cardiovascular comorbidity in type 2 diabetes patients. <b>2015</b> , 29, 829-33	9
470	Pro-inflammatory effect of fibrinogen on vascular smooth muscle cells by regulating the expression of ∰and. <b>2015</b> , 3, 513-518	7
469	Prevalence of M4 macrophages within human coronary atherosclerotic plaques is associated with features of plaque instability. <b>2015</b> , 186, 219-25	32
468	Role of formic receptors in soluble urokinase receptor-induced human vascular smooth muscle migration. <b>2015</b> , 195, 396-405	7
467	The imperatorin derivative OW1, a new vasoactive compound, inhibits VSMC proliferation and extracellular matrix hyperplasia. <b>2015</b> , 284, 125-33	5
466	Inactivation of PI3Klinduces vascular injury and promotes aneurysm development by upregulating the AP-1/MMP-12 pathway in macrophages. <b>2015</b> , 35, 368-77	12
465	Protective effect of telmisartan on neurovascular unit and inflammasome in stroke-resistant spontaneously hypertensive rats. <b>2015</b> , 37, 491-501	12
464	Use of combined chemotherapy with etoposide and methotrexate, both associated to lipid nanoemulsions for atherosclerosis treatment in cholesterol-fed rabbits. <b>2015</b> , 29, 15-22	14
463	Emerging markers of atherosclerosis before and after bariatric surgery. <b>2015</b> , 25, 486-93	18
462	Elevated Serum Angiopoietin-like Protein 2 in Patients with Acute Coronary Syndrome. <b>2015</b> , 46, 257-64	12

461	The renin-angiotensin system and its involvement in vascular disease. <b>2015</b> , 763, 3-14	72
460	Activation of the high-mobility group box 1 protein-receptor for advanced glycation end-products signaling pathway in rats during neurogenesis after intracerebral hemorrhage. <b>2015</b> , 46, 500-6	33
459	Cardiovascular Imaging. <b>2015</b> ,	1
458	Atherosclerosis, Introduction and Pathophysiology. <b>2015</b> , 527-546	
457	Accentuating and Opposing Factors Leading to Development of Thoracic Aortic Aneurysms Not Due to Genetic or Inherited Conditions. <b>2015</b> , 2, 21	7
456	Differential effects of culture senescence and mechanical stimulation on the proliferation and leiomyogenic differentiation of MSC from different sources: implications for engineering vascular grafts. <b>2015</b> , 21, 1364-75	32
455	Recommendations for Improving and Standardizing Vascular Research on Arterial Stiffness: A Scientific Statement From the American Heart Association. <b>2015</b> , 66, 698-722	734
454	Ascending Aortic Proaneurysmal Genetic Mutations with Antiatherogenic Effects. <b>2015</b> , 24, 189-97	4
453	Matrix Metalloproteinase-9 (MMP-9) Gene Polymorphism in Stroke Patients. <b>2015</b> , 17, 385-90	24
452	Protective effects of reactive functional groups on chondrocytes in photocrosslinkable hydrogel systems. <b>2015</b> , 27, 66-76	41
451	Matrix metalloproteinase inhibitors prevent sepsis-induced refractoriness to vasoconstrictors in the cecal ligation and puncture model in rats. <b>2015</b> , 765, 164-70	11
450	7⊞ydroxycholesterol induces inflammation by enhancing production of chemokine (C-C motif) ligand 2. <b>2015</b> , 467, 879-84	9
449	Matrix Metalloproteinase Mediated Type I Collagen Degradation - An Independent Risk Factor for Mortality in Women. <b>2015</b> , 2, 723-9	19
448	Human elastin polypeptides improve the biomechanical properties of three-dimensional matrices through the regulation of elastogenesis. <b>2015</b> , 103, 1218-30	7
447	A study of a D-proline peptidomimetic inhibitor of melanoma and endothelial cell invasion through activity towards MMP-2 and MMP-9. <b>2015</b> , 6, 277-282	6
446	The role of matrix metalloproteinases and neutrophil gelatinase-associated lipocalin in central and peripheral arterial aneurysms. <b>2015</b> , 157, 155-62	33
445	Physical activity is associated with elevated arterial stiffness in patients with lumbar disk herniation. <b>2015</b> , 28, E30-4	3
444	Endothelial Cell Dysfunction. <b>2015</b> , 181-207	1

# (2016-2015)

443	Effects of oral administration of tripeptides derived from type I collagen (collagen tripeptide) on atherosclerosis development in hypercholesterolemic rabbits. <b>2015</b> , 119, 558-63	11
442	Micropatterned coculture of vascular endothelial and smooth muscle cells on layered electrospun fibrous mats toward blood vessel engineering. <b>2015</b> , 103, 1949-60	7
441	Biomaterials for Cardiac Regeneration. <b>2015</b> ,	3
440	Plasma Neutrophil Gelatinase-Associated Lipocalin Reflects Both Inflammation and Kidney Function in Patients with Myocardial Infarction. <b>2016</b> , 6, 180-90	13
439	Serum Concentrations of Endothelin-1 and Matrix Metalloproteinases-2, -9 in Pre-Hypertensive and Hypertensive Patients with Type 2 Diabetes. <b>2016</b> , 17,	17
438	Matrix Metalloproteinases and Subclinical Atherosclerosis in Chronic Kidney Disease: A Systematic Review. <b>2016</b> , 2016, 9498013	13
437	A Hydrogel Model Incorporating 3D-Plotted Hydroxyapatite for Osteochondral Tissue Engineering. <b>2016</b> , 9,	23
436	Red Grape Skin Polyphenols Blunt Matrix Metalloproteinase-2 and -9 Activity and Expression in Cell Models of Vascular Inflammation: Protective Role in Degenerative and Inflammatory Diseases. <b>2016</b> , 21,	32
435	Cathepsin K Deficiency Prevents the Aggravated Vascular Remodeling Response to Flow Cessation in ApoE-/- Mice. <b>2016</b> , 11, e0162595	5
434	Arterial stiffness in inflammatory bowel disease: a systematic review and meta-analysis. <b>2016</b> , 34, 822-9	34
433	Nanoparticulate delivery of agents for induced elastogenesis in three-dimensional collagenous matrices. <b>2016</b> , 10, 1041-1056	8
432	Comparison of Aortic Collagen Fiber Angle Distribution in Mouse Models of Atherosclerosis Using Second-Harmonic Generation (SHG) Microscopy. <b>2016</b> , 22, 55-62	14
431	In vivo measurement of hemodynamic information in stenosed rat blood vessels using X-ray PIV. <b>2016</b> , 6, 37985	4
430	Role of Excessive Autophagy Induced by Mechanical Overload in Vein Graft Neointima Formation: Prediction and Prevention. <b>2016</b> , 6, 22147	11
429	Liposomal prednisolone inhibits vascular inflammation and enhances venous outward remodeling in a murine arteriovenous fistula model. <b>2016</b> , 6, 30439	21
428	The effects of gelatin-dopamine coating on polydimethylsiloxane substrates on pluripotency maintenance and myocardial differentiation of cultured mouse embryonic stem cells. <b>2016</b> , 4, 7961-7973	16
427	Inhibition of EMMPRIN and MMP-9 Expression by Epigallocatechin-3-Gallate through 67-kDa Laminin Receptor in PMA-Induced Macrophages. <b>2016</b> , 39, 2308-2319	21
426	Epidemiology of age-related macular degeneration (AMD): associations with cardiovascular disease phenotypes and lipid factors. <b>2016</b> , 3, 34	223

425	Cross-Linkable Gelatin-CMC Hydrogels Designed for Rapid Engineering of Perfusable Vasculatures. <b>2016</b> , 2, 1059-1066	34
424	The emerging role of RUNX3 in cancer metastasis (Review). <b>2016</b> , 35, 1227-36	44
423	Mediciñ del grosor de la fitima-media carotflea: utilidad y diagnfitico ecogrflico de aterosclerosis subclitica en enfermedades reumflicas. Revisiñ de la literatura. <b>2016</b> , 23, 92-101	1
422	Conflicting mechanisms of AT2 cardioprotection revealed. <b>2016</b> , 112, 426-8	2
421	Plasma cystatin C and neutrophil gelatinase-associated lipocalin in relation to coronary atherosclerosis on intravascular ultrasound and cardiovascular outcome: Impact of kidney function (ATHEROREMO-IVUS study). <b>2016</b> , 254, 20-27	8
420	Reduced levels of potential circulating biomarkers of cardiovascular diseases in apparently healthy vegetarian men. <b>2016</b> , 461, 110-3	10
419	Endothelial Jag1-RBPJ signalling promotes inflammatory leucocyte recruitment and atherosclerosis. <b>2016</b> , 112, 568-580	38
418	GDF11 Protects against Endothelial Injury and Reduces Atherosclerotic Lesion Formation in Apolipoprotein E-Null Mice. <b>2016</b> , 24, 1926-1938	54
417	Vascular proteomics in metabolic and cardiovascular diseases. <b>2016</b> , 280, 325-38	28
416	Calcium Phosphates and Angiogenesis: Implications and Advances for Bone Regeneration. <b>2016</b> , 34, 983-992	78
415	Genetic variation of MMP-2(-735 C>T) and MMP-9(-1562 C>T) gene in risk of development of HAND and severity of HAND. <b>2016</b> , 18, 250-7	3
414	Biopolymer-based hydrogels for cartilage tissue engineering. <b>2016</b> , 5, 51-66	18
413	Effect of Ligustrazine on rat peritoneal mesothelial cells treated with lipopolysaccharide. <b>2016</b> , 38, 961-9	4
412	Factor VII-activating protease deficiency promotes neointima formation by enhancing leukocyte accumulation. <b>2016</b> , 14, 2058-2067	12
411	Genetic markers: Potential candidates for cardiovascular disease. <b>2016</b> , 220, 914-23	4
47.0		
410	Usefulness of measuring common carotid intima-media thickness: Ultrasound diagnosis of sub-clinical atherosclerosis in rheumatic diseases. A literature review. <b>2016</b> , 23, 92-101	
409		3

# (2016-2016)

407	Matrix metalloproteinases and risk stratification in patients undergoing surgical revascularisation for critical limb ischaemia. <b>2016</b> , 13, 493-9	13
406	Decreases in plasma MMP-2/TIMP-2 and MMP-9/TIMP-1 ratios in uremic patients during hemodialysis. <b>2016</b> , 20, 934-942	9
405	ADAMTS4 and Oxidative/Antioxidative Status in Preterm Premature Rupture of Membranes. <b>2016</b> , 35, 239-50	2
404	Baicalein protects against the development of angiotensin II-induced abdominal aortic aneurysms by blocking JNK and p38 MAPK signaling. <b>2016</b> , 59, 940-9	14
403	Bioresorption and Vessel Wall Integration of a Fully Bioresorbable Polymeric Everolimus-Eluting Scaffold: Optical Coherence Tomography, Intravascular Ultrasound, and Histological Study in a Porcine Model With 4-Year Follow-Up. <b>2016</b> , 9, 838-851	22
402	Glyceraldehyde 3-phosphate dehydrogenase and galectin from Dirofilaria immitis participate in heartworm disease endarteritis via plasminogen/plasmin system. <b>2016</b> , 223, 96-101	7
401	Expression of factors involved in the regulation of angiogenesis in the full-term human placenta: Effects of in vitro fertilization. <b>2016</b> , 16, 104-12	5
400	Adiponectin improves NF- <b>B</b> -mediated inflammation and abates atherosclerosis progression in apolipoprotein E-deficient mice. <b>2016</b> , 15, 33	50
399	Efficacy of nobiletin, a citrus flavonoid, in the treatment of the cardiovascular dysfunction of diabetes in rats. <b>2016</b> , 7, 3121-9	20
398	The Effects of Hypertension on Cerebral Artery Structure and Function, and Cerebral Blood Flow. <b>2016</b> , 99-134	O
397	Relationship between matrix metalloproteinase-9 and common carotid artery intima media thickness. <b>2016</b> , 37, 117-122	7
396	Hypertension and the Brain as an End-Organ Target. 2016,	3
395	In vivo mapping and assay of matrix metalloproteases for liver tumor diagnosis. <b>2016</b> , 6, 8336-8345	10
394	Danhong huayu koufuye prevents deep vein thrombosis through anti-inflammation in rats. <b>2016</b> , 201, 340-7	9
393	[Pathogenesis of large vessel vasculitis]. <b>2016</b> , 37, 264-73	8
392	Late gestational hypoxia and a postnatal high salt diet programs endothelial dysfunction and arterial stiffness in adult mouse offspring. <b>2016</b> , 594, 1451-63	23
391	Buckling Reduces eNOS Production and Stimulates Extracellular Matrix Remodeling in Arteries in Organ Culture. <b>2016</b> , 44, 2840-50	4
390	Vascular smooth muscle cell differentiation from human stem/progenitor cells. <b>2016</b> , 101, 85-92	17

389	ADAMTS genes and the risk of cerebral aneurysm. <b>2016</b> , 125, 269-74	18
388	The roadmap of WT1 protein expression in the human fetal heart. <b>2016</b> , 90, 139-45	7
387	Pulmonary Arterial Stiffness: Toward a New Paradigm in Pulmonary Arterial Hypertension Pathophysiology and Assessment. <b>2016</b> , 18, 4	41
386	Serum neutrophil gelatinase-associated lipocalin concentration reflects severity of coronary artery disease in patients without heart failure and chronic kidney disease. <b>2016</b> , 31, 1595-602	11
385	The matrix metalloproteinases 2 and 9 initiate uraemic vascular calcifications. 2016, 31, 789-97	37
384	Impact of 5A/6A polymorphism of matrix metalloproteinase-3 on recurrent atherosclerotic ischemic stroke in Chinese. <b>2016</b> , 126, 936-41	5
383	The investigation of the role of proteoglycans and ADAMTS levels in fetal membranes in physiopathological process of gestational diabetes. <b>2017</b> , 104, 182-184	7
382	Vascular remodeling: A redox-modulated mechanism of vessel caliber regulation. <b>2017</b> , 109, 11-21	27
381	Differential hypertensive protease expression in the thoracic versus abdominal aorta. <b>2017</b> , 66, 1543-1552	7
380	Differentially expressed genes and canonical pathway expression in human atherosclerotic plaques - Tampere Vascular Study. <b>2017</b> , 7, 41483	29
379	Killing Me Unsoftly: Causes and Mechanisms of Arterial Stiffness. <b>2017</b> , 37, e1-e11	72
378	ZYZ-168 alleviates cardiac fibrosis after myocardial infarction through inhibition of ERK1/2-dependent ROCK1 activation. <b>2017</b> , 7, 43242	12
377	Impact of Statin Therapy on Plasma MMP-3, MMP-9, and TIMP-1 Concentrations: A Systematic Review and Meta-Analysis of Randomized Placebo-Controlled Trials. <b>2017</b> , 68, 850-862	15
376	Saphenous vein wall thickness in age and venous reflux-associated remodeling in adults. <b>2017</b> , 5, 216-223	19
375	Thoracic Aortic Aneurysm Growth: Role of Sex and Aneurysm Etiology. 2017, 6,	55
374	Association between the Matrix Metalloproteinase-9 rs3918242 Polymorphism and Ischemic Stroke Susceptibility: A Meta-Analysis. <b>2017</b> , 26, 1136-1143	14
373	Ursolic acid suppresses leptin-induced cell proliferation in rat vascular smooth muscle cells. <b>2017</b> , 95, 811-818	4
372	Aortic adventitial fibroblast sensitivity to mitogen activated protein kinase inhibitors depends on substrate stiffness. <b>2017</b> , 137, 1-10	11

## (2017-2017)

371	DNA methylome analysis reveals distinct epigenetic patterns of ascending aortic dissection and bicuspid aortic valve. <b>2017</b> , 113, 692-704	20
370	MMPs/TIMPs imbalances in the peripheral blood and cerebrospinal fluid are associated with the pathogenesis of HIV-1-associated neurocognitive disorders. <b>2017</b> , 65, 161-172	35
369	Sex differences in fat distribution influence the association between BMI and arterial stiffness. <b>2017</b> , 35, 1219-1225	25
368	Radiolabeled Selective Matrix Metalloproteinase 13 (MMP-13) Inhibitors: (Radio)Syntheses and in Vitro and First in Vivo Evaluation. <b>2017</b> , 60, 307-321	12
367	Association between matrix metaloproteinases 2-1306C/T polymorphism and the risk of coronary artery disease in Iranian population. <b>2017</b> , 24, 185-189	2
366	Zymography as a Research Tool in the Study of Matrix Metalloproteinase Inhibitors. <b>2017</b> , 1626, 79-102	24
365	Doxycycline affects gene expression profiles in aortic tissues in a rat model of vascular calcification. <b>2017</b> , 114, 12-18	5
364	Recent advances in our understanding of giant cell arteritis pathogenesis. 2017, 16, 833-844	95
363	Zymography. <b>2017</b> ,	1
362	Physiopathologie des artfites ^cellules gantes. <b>2017</b> , 84, 215-222	1
361	The vascular protective effects of Anoectochilus roxburghii polysaccharose under high glucose conditions. <b>2017</b> , 202, 192-199	12
360	The Profile of Circulating Matrix Metalloproteinases in Patients Undergoing Lower Limb Endovascular Interventions for Peripheral Arterial Disease. <b>2017</b> , 43, 188-196	3
360 359		3
	Endovascular Interventions for Peripheral Arterial Disease. <b>2017</b> , 43, 188-196  A novel mechanism regulating human platelet activation by MMP-2-mediated PAR1 biased	
359	Endovascular Interventions for Peripheral Arterial Disease. <b>2017</b> , 43, 188-196  A novel mechanism regulating human platelet activation by MMP-2-mediated PAR1 biased signaling. <b>2017</b> , 129, 883-895  Role of angiotensin II and angiotensin type-1 receptor in scorpion venom-induced cardiac and aortic	41
359 358	Endovascular Interventions for Peripheral Arterial Disease. 2017, 43, 188-196  A novel mechanism regulating human platelet activation by MMP-2-mediated PAR1 biased signaling. 2017, 129, 883-895  Role of angiotensin II and angiotensin type-1 receptor in scorpion venom-induced cardiac and aortic tissue inflammation. 2017, 102, 32-40	41 20
359 358 357	Endovascular Interventions for Peripheral Arterial Disease. 2017, 43, 188-196  A novel mechanism regulating human platelet activation by MMP-2-mediated PAR1 biased signaling. 2017, 129, 883-895  Role of angiotensin II and angiotensin type-1 receptor in scorpion venom-induced cardiac and aortic tissue inflammation. 2017, 102, 32-40  Cell Based Therapeutic Approach in Vascular Surgery: Application and Review. 2017, 12, 308-322  Endothelial Mineralocorticoid Receptor Mediates Parenchymal Arteriole and Posterior Cerebral	41 20 1

353	The Matrikine Acetylated Proline-Glycine-Proline Couples Vascular Inflammation and Acute Cardiac Rejection. <b>2017</b> , 7, 7563	8
352	Deficiency of TLR4 homologue RP105 aggravates outward remodeling in a murine model of arteriovenous fistula failure. <b>2017</b> , 7, 10269	9
351	Vascular Imaging of Matrix Metalloproteinase Activity as an Informative Preclinical Biomarker of Drug-induced Vascular Injury. <b>2017</b> , 45, 633-648	4
350	Matrix-Metalloproteinase-2 Predicts Arteriovenous Fistula Failure in Hemodialysis Patients. <b>2017</b> , 21, 586-591	2
349	Design and Fabrication of a Three-Dimensional In Vitro System for Modeling Vascular Stenosis. <b>2017</b> , 23, 859-871	4
348	The Role Matrix Metalloproteinases in the Production of Aortic Aneurysm. <b>2017</b> , 147, 239-265	93
347	Arterial wall remodeling under sustained axial twisting in rats. <b>2017</b> , 60, 124-133	5
346	Polymyalgia Rheumatica and Giant Cell Arteritis. <b>2017</b> ,	1
345	Serum matrix metalloproteinase-9 levels and prognosis of acute ischemic stroke. <b>2017</b> , 89, 805-812	59
344	Experimental preeclampsia in rats affects vascular gene expression patterns. <b>2017</b> , 7, 14807	8
343	A chemo-mechano-biological formulation for the effects of biochemical alterations on arterial mechanics: the role of molecular transport and multiscale tissue remodelling. <b>2017</b> , 14,	18
342	Tanshinone IIA Attenuates Atherosclerosis in Apolipoprotein E Knockout Mice Infected with Porphyromonas gingivalis. <b>2017</b> , 40, 1631-1642	25
341	Correlations of serum cystatin C and glomerular filtration rate with vascular lesions and severity in acute coronary syndrome. <b>2017</b> , 17, 47	7
340	Statistical Permutation-based Artery Mapping (SPAM): a novel approach to evaluate imaging signals in the vessel wall. <b>2017</b> , 17, 36	O
339	Collagen XIV and a related recombinant fragment protect human vascular smooth muscle cells from calcium-/phosphate-induced osteochondrocytic transdifferentiation. <b>2017</b> , 358, 242-252	9
338	Cutaneous Responses to Tropospheric Ozone Exposure. <b>2017</b> , 679-693	
337	Association of Matrix Metalloproteinase-1 and Matrix Metalloproteinase-3 Gene Variants with Ischemic Stroke and Its Subtype. <b>2017</b> , 26, 368-375	15
336	The role of the kallikrein-kinin system, matrix metalloproteinases, and tissue inhibitors of metalloproteinases in the early restenosis of covered stents in the femoropopliteal arterial segment. <b>2017</b> , 65, 119-127	2

335	Histological structure affects recellularization of decellularized arteries. <b>2017</b> , 70, 450-455	7
334	The therapeutic effect of rosuvastatin and propylthiouracil on ameliorating high-cholesterol diet-induced rabbit aortic atherosclerosis and stiffness. <b>2017</b> , 227, 938-949	9
333	Molecular imaging of the extracellular matrix in the context of atherosclerosis. 2017, 113, 49-60	15
332	Synergistic enhancement of matrix metalloproteinase-9 expression and pro-inflammatory cytokines by influenza virus infection and oxidized-LDL treatment in human endothelial cells. <b>2017</b> , 14, 4579-4585	5
331	MicroRNA-1185 Promotes Arterial Stiffness though Modulating VCAM-1 and E-Selectin Expression. <b>2017</b> , 41, 2183-2193	20
330	Matrix Metalloproteinases and Platelet Function. <b>2017</b> , 147, 133-165	27
329	Heart Remodelation: Role of MMPs. 2017,	1
328	Chemical and Medicinal Versatility of Substituted 1,4-Dihydropyridines. <b>2017</b> , 13, 109-120	9
327	Calcification of Human Saphenous Vein Associated with Endothelial Dysfunction: A Pilot Histopathophysiological and Demographical Study. <b>2017</b> , 4, 6	5
326	Salvia miltiorrhiza: A Potential Red Light to the Development of Cardiovascular Diseases. <b>2017</b> , 23, 1077-1097	7 106
325	Synthesis and Characterization of Nanofunctionalized Gelatin Methacrylate Hydrogels. 2017, 18,	42
325 324	Synthesis and Characterization of Nanofunctionalized Gelatin Methacrylate Hydrogels. <b>2017</b> , 18,  The Importance of NADPH Oxidases and Redox Signaling in Angiogenesis. <b>2017</b> , 6,	42
324	The Importance of NADPH Oxidases and Redox Signaling in Angiogenesis. 2017, 6,  The Role of MicroRNAs in Arterial Stiffness and Arterial Calcification. An Update and Review of the	34
324	The Importance of NADPH Oxidases and Redox Signaling in Angiogenesis. 2017, 6,  The Role of MicroRNAs in Arterial Stiffness and Arterial Calcification. An Update and Review of the Literature. 2017, 8, 209	34
324 323 322	The Importance of NADPH Oxidases and Redox Signaling in Angiogenesis. 2017, 6,  The Role of MicroRNAs in Arterial Stiffness and Arterial Calcification. An Update and Review of the Literature. 2017, 8, 209  Inflammatory Markers for Arterial Stiffness in Cardiovascular Diseases. 2017, 8, 1058  The association between cigarette smoking and inflammation: The Genetic Epidemiology Network	34 30 157
324 323 322 321	The Importance of NADPH Oxidases and Redox Signaling in Angiogenesis. 2017, 6,  The Role of MicroRNAs in Arterial Stiffness and Arterial Calcification. An Update and Review of the Literature. 2017, 8, 209  Inflammatory Markers for Arterial Stiffness in Cardiovascular Diseases. 2017, 8, 1058  The association between cigarette smoking and inflammation: The Genetic Epidemiology Network of Arteriopathy (GENOA) study. 2017, 12, e0184914  Circulating matrix metalloproteinases are associated with arterial stiffness in patients with type 1	34 30 157 38

317	Beta-adrenoceptor Activation by Norepinephrine Enhances Lipopolysaccharide-induced Matrix Metalloproteinase-9 Expression Through the ERK/JNK-c-Fos Pathway in Human THP-1 Cells. <b>2017</b> , 24, 55-67	9
316	The Role of Matrix Metalloproteinase-3 in the Doxycycline Attenuation of Intracranial Venous Hypertension-Induced Angiogenesis. <b>2018</b> , 83, 1317-1327	7
315	Tissue inhibitor of the metalloproteinases-3 gene polymorphisms and carotid plaque susceptibility in the Han Chinese population. <b>2018</b> , 128, 920-927	6
314	The potential role of bioengineering and three-dimensional printing in curing global corneal blindness. <b>2018</b> , 9, 2041731418769863	28
313	Recent Advances in Giant Cell Arteritis. <b>2018</b> , 20, 25	10
312	Sex Considerations in Aneurysm Formation, Progression, and Outcomes. <b>2018</b> , 34, 362-370	9
311	Cadherins in vascular smooth muscle cell (patho)biology: Quid nos scimus?. <b>2018</b> , 45, 23-42	10
310	Matrix metalloproteinase-2 and -9 activity levels increase in cutaneous lupus erythematosus lesions and correlate with disease severity. <b>2018</b> , 310, 173-179	5
309	Non traumatic giant aneurysm of middle meningeal artery. Case report and review of the literature. <b>2018</b> , 29, 250-254	
308	Coupled Finite ElementAgent-Based Models for the Simulation of Vascular Growth and Remodeling. <b>2018</b> , 283-300	3
307	Rhodiola crenulata Attenuates Ray Induced Cellular Injury via Modulation of Oxidative Stress in Human Skin Cells. <b>2018</b> , 46, 175-190	13
306	Studies on sporadic non-syndromic thoracic aortic aneurysms: 1. Deregulation of Jagged/Notch 1 homeostasis and selection of synthetic/secretor phenotype smooth muscle cells. <b>2018</b> , 25, 42-50	10
305	An electrospun poly(Eaprolactone) scaffold modified with matrix metalloproteinase for cellularization and vascularization. <b>2018</b> , 6, 2795-2802	1
304	Enlarged Size and Impaired Elastic Properties of the Ascending Aorta are Associated with Endothelial Dysfunction and Elevated Plasma Matrix Metalloproteinase-2 Level in Patients with Bicuspid Aortic Valve. <b>2018</b> , 44, 955-962	7
303	Association of R279Q and C1562T polymorphisms of matrix metalloproteinase 9 gene and increased risk for myocardial infarction in patients with premature coronary artery disease. <b>2018</b> , 32,	6
302	Identification of Mature Atherosclerotic Plaque Proteome Signatures Using Data-Independent Acquisition Mass Spectrometry. <b>2018</b> , 17, 164-176	7
301	Investigation of the expressions of MMPs and TIMPs between isogeneic and allogeneic rat aortic transplantation. <b>2018</b> , 17, 6909-6913	
300	Periodontal, metabolic, and cardiovascular disease: Exploring the role of inflammation and mental health. <b>2018</b> , 29, 124-163	16

299	The Risk of Rosacea According to Chronic Diseases and Medications: A 5-Year Retrospective, Multi-Institutional Case-Control Study. <b>2018</b> , 30, 676-687	4
298	Expression variations and clinical significance of MMP-1, MMP-2 and inflammatory factors in serum of patients with deep venous thrombosis of lower extremity. <b>2019</b> , 17, 181-186	3
297	Morin inhibits PDGF-induced proliferation, migration, and invasion of vascular smooth muscle cells via modulating p27KIP1, AKT, and MMP-9 activities. <b>2018</b> , 37, 633-645	9
296	Immunohistochemical Features of Different Types of Unstable Atherosclerotic Plaques of Coronary Arteries. <b>2018</b> , 166, 102-106	4
295	Association of Polymorphisms of the Matrix Metalloproteinase 9 Gene with Ischaemic Stroke in a Southern Chinese Population. <b>2018</b> , 49, 2188-2199	6
294	Endothelial Cells Promote Calcification in Aortic Smooth Muscle Cells from Spontaneously Hypertensive Rats. <b>2018</b> , 49, 2371-2381	10
293	Habitual aerobic exercise and circulating proteomic patterns in healthy adults: relation to indicators of healthspan. <b>2018</b> , 125, 1646-1659	13
292	Pulsatile Perfusion Bioreactor for Biomimetic Vascular Impedances. <b>2018</b> , 12,	3
291	Reversible physical crosslinking strategy with optimal temperature for 3D bioprinting of human chondrocyte-laden gelatin methacryloyl bioink. <b>2018</b> , 33, 609-618	24
290	Abdominal aortic aneurysms. <b>2018</b> , 4, 34	145
290 289	Abdominal aortic aneurysms. 2018, 4, 34  Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. 2018, 165, 798-802	145 3
	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in	
289	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. <b>2018</b> , 165, 798-802  Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular	3
289	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. 2018, 165, 798-802  Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular enzymatic activity. 2018, 8, 13258  Inhibition of Aortic Intimal Hyperplasia and Vascular Smooth Muscle Proliferation and Extracellular	3
289 288 287	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. 2018, 165, 798-802  Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular enzymatic activity. 2018, 8, 13258  Inhibition of Aortic Intimal Hyperplasia and Vascular Smooth Muscle Proliferation and Extracellular Matrix Protein Expressions by Astragalus-Angelica Combination. 2018, 2018, 1508637  A causal link between oxidative stress and inflammation in cardiovascular and renal complications	3 9 6
289 288 287 286	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. 2018, 165, 798-802  Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular enzymatic activity. 2018, 8, 13258  Inhibition of Aortic Intimal Hyperplasia and Vascular Smooth Muscle Proliferation and Extracellular Matrix Protein Expressions by Astragalus-Angelica Combination. 2018, 2018, 1508637  A causal link between oxidative stress and inflammation in cardiovascular and renal complications of diabetes. 2018, 132, 1811-1836  Perfusion Tissue Culture Initiates Differential Remodeling of Internal Thoracic Arteries, Radial	<ul><li>3</li><li>9</li><li>6</li><li>75</li></ul>
289 288 287 286	Immunohistochemical Phenotypes of Stable and Unstable Occlusive Atherosclerotic Plaques in Coronary Arteries. 2018, 165, 798-802  Lysyl oxidase (LOX) limits VSMC proliferation and neointimal thickening through its extracellular enzymatic activity. 2018, 8, 13258  Inhibition of Aortic Intimal Hyperplasia and Vascular Smooth Muscle Proliferation and Extracellular Matrix Protein Expressions by Astragalus-Angelica Combination. 2018, 2018, 1508637  A causal link between oxidative stress and inflammation in cardiovascular and renal complications of diabetes. 2018, 132, 1811-1836  Perfusion Tissue Culture Initiates Differential Remodeling of Internal Thoracic Arteries, Radial Arteries, and Saphenous Veins. 2018, 55, 255-267  Comparison of the perioperative time courses of matrix metalloproteinase-9 (MMP-9) and its	3 9 6 75 4

281	Samul-Tang Regulates Cell Cycle and Migration of Vascular Smooth Muscle Cells against TNF-Stimulation. <b>2018</b> , 2018, 1024974	4
<b>2</b> 80	HMGB1 Increases IL-1IProduction in Vascular Smooth Muscle Cells via NLRP3 Inflammasome. <b>2018</b> , 9, 313	51
279	Plasma neutrophil gelatinase-associated lipocalin and risk of cardiovascular disease: Findings from the PREVEND prospective cohort study. <b>2018</b> , 486, 66-75	6
278	Meroterpinoid-rich fraction of the ethanol extract from Sargassum serratifolium suppresses TNF-Induced monocytes adhesion to vascular endothelium and vascular inflammation in high cholesterol-fed C57BL/6J mice. <b>2018</b> , 46, 384-393	12
277	MMP-2: is too low as bad as too high in the cardiovascular system?. <b>2018</b> , 315, H1332-H1340	16
276	Role of extracellular matrix in the pathogenesis of pulmonary arterial hypertension. <b>2018</b> , 315, H1322-H1331	78
275	Can EGCG Alleviate Symptoms of Down Syndrome by Altering Proteolytic Activity?. 2018, 19,	11
274	Matrix metalloproteinase in the cardiovascular remodeling of hypertension: current insights and therapeutic potential. <b>2018</b> , Volume 5, 1-11	4
273	In vitro 3D skin model using gelatin methacrylate hydrogel. <b>2018</b> , 66, 254-261	10
272	A novel CD147 inhibitor, SP-8356, reduces neointimal hyperplasia and arterial stiffness in a rat model of partial carotid artery ligation. <b>2019</b> , 17, 274	9
271	Vascular Effects of Progestogens. <b>2019</b> , 197-207	
270	Apabetalone (RVX-208) reduces vascular inflammation in vitro and in CVD patients by a BET-dependent epigenetic mechanism. <b>2019</b> , 11, 102	47
269	Is the Expression of the Components of the Carotid Matrix of Rats Influenced by Estrogen, Progestin and Tibolone?. <b>2019</b> , 41, 449-453	2
268	The role of smooth muscle cells in plaque stability: Therapeutic targeting potential. <b>2019</b> , 176, 3741-3753	34
267	Emerging regulators of vascular smooth muscle cell migration. <b>2019</b> , 40, 185-196	9
266	MiR-205 promotes endothelial progenitor cell angiogenesis and deep vein thrombosis recanalization and resolution by targeting PTEN to regulate Akt/autophagy pathway and MMP2 expression. <b>2019</b> , 23, 8493-8504	24
265	Osteopontin in the Pathogenesis of Aortic Dissection by the Enhancement of MMP Expressions. <b>2019</b> , 60, 429-435	3
264	Application of a decision tree to establish factors associated with a nomogram of aortic stiffness. <b>2019</b> , 21, 1484-1492	4

263	Epigenetic Regulation of Vascular Smooth Muscle Cells by Histone H3 Lysine 9 Dimethylation Attenuates Target Gene-Induction by Inflammatory Signaling. <b>2019</b> , 39, 2289-2302	17
262	Targeted, Stimuli-Responsive, and Theranostic F Magnetic Resonance Imaging Probes. <b>2019</b> , 30, 2502-2518	24
261	Cardiac Computed Tomography: Assessment of Coronary Inflammation and Other Plaque Features. <b>2019</b> , 39, 2207-2219	18
260	Stiffness of Aligned Fibers Regulates the Phenotypic Expression of Vascular Smooth Muscle Cells. <b>2019</b> , 11, 6867-6880	44
259	CKIP-1 limits foam cell formation and inhibits atherosclerosis by promoting degradation of Oct-1 by REGI <b>2019</b> , 10, 425	28
258	Celastrol-loaded PEG-b-PPS nanocarriers as an anti-inflammatory treatment for atherosclerosis. <b>2019</b> , 7, 657-668	46
257	Sex Steroids' Effects on Brain, Heart and Vessels. <b>2019</b> ,	
256	Gelatin Methacrylate (GelMA)-Based Hydrogels for Cell Transplantation: an Effective Strategy for Tissue Engineering. <b>2019</b> , 15, 664-679	88
255	Engineering stem cell cardiac patch with microvascular features representative of native myocardium. <b>2019</b> , 9, 2143-2157	26
254	Beneficial Effect of Bariatric Surgery on Abnormal MMP-9 and AMPK Activities: Potential Markers of Obesity-Related CV Risk. <b>2019</b> , 10, 553	9
253	MT1-MMP evaluation in neointimal hyperplasia in the late follow-up after prosthesis implantation. <b>2019</b> , 100, 94-101	2
252	Effects of chronic inhibition of Testosterone metabolism on cardiac remodeling after ischemia/reperfusion-induced myocardial damage in gonadectomized rats. <b>2019</b> , 8,	3
251	Biomimetic Nanotherapies: Red Blood Cell Based Core-Shell Structured Nanocomplexes for Atherosclerosis Management. <b>2019</b> , 6, 1900172	96
250	Should we abandon the term ?lone atrial fibrillation??. <b>2019</b> , 60, 216-223	1
249	Treatment of giant cell arteritis. <b>2019</b> , 165, 230-239	8
248	FibrosisInflammation of the Cardiovascular System. <b>2019</b> , 321-338	
247	Sub-antimicrobial doses of doxycycline decreased bone loss related to ligature-induced periodontitis in hypertensive rats. <b>2019</b> , 101, 77-84	2
246	Statins' Withdrawal Induces Atherosclerotic Plaque Destabilization in Animal Model-A "Rebound" Stimulation of Inflammation. <b>2019</b> , 24, 377-386	6

245	Administration of endothelial progenitor cells accelerates the resolution of arterial thrombus in mice. <b>2019</b> , 21, 444-459	2
244	Silver-Nanoparticle-Entrapped Soft GelMA Gels as Prospective Scaffolds for Wound Healing <b>2019</b> , 2, 1802-1814	21
243	Identification of highly potent and selective MMP2 inhibitors addressing the S1' subsite with d-proline-based compounds. <b>2019</b> , 27, 1891-1902	8
242	Arteriovenous conduits for hemodialysis: how to better modulate the pathophysiological vascular response to optimize vascular access durability. <b>2019</b> , 316, F794-F806	22
241	The Efficacy of Systemic Doxycycline Administration as an Inhibitor of Intimal Hyperplasia after Balloon Angioplasty Arterial Injury. <b>2019</b> , 57, 201-209	2
240	Mathematical modelling of atherosclerosis. <b>2019</b> , 14, 603	9
239	Impact of Coronary Plaque Vulnerability on Acute Cardiovascular Events Design of a CT-based 2-year Follow-up Study. <b>2019</b> , 4, 64-71	4
238	An Injectable Conductive Three-Dimensional Elastic Network by Tangled Surgical-Suture Spring for Heart Repair. <b>2019</b> , 13, 14122-14137	25
237	Antihypertensive and Vasodilatory Effects of Qingda Granules by Suppression of Calcium Influx and the AKT Pathway. <b>2019</b> , 74, 549-557	8
236	2D Gelatin Methacrylate Hydrogels with Tunable Stiffness for Investigating Cell Behaviors <b>2019</b> , 2, 570-576	8
235	Expansive Vascular Remodeling and Increased Vascular Calcification Response to Cholecalciferol in a Murine Model of Obesity and Insulin Resistance. <b>2019</b> , 39, 200-211	20
234	Evaluation of second trimester amniotic fluid ADAMTS4, ADAMTS5, interleukin-6 and tumor necrosis factor-Hevels in patients with gestational diabetes mellitus. <b>2019</b> , 45, 824-829	8
233	Role of matrix metalloproteinases and histone deacetylase in oxidative stress-induced degradation of the endothelial glycocalyx. <b>2019</b> , 316, H647-H663	40
232	High mean platelet volume to platelet count ratio as a predictor on poor outcomes after CABG. <b>2020</b> , 68, 459-466	3
231	Influence of the Matrix Metalloproteinase 9 Geners3918242 Polymorphism on Development of Ischemic Stroke: A Meta-analysis. <b>2020</b> , 133, e31-e61	8
230	Long noncoding RNAs in key cellular processes involved in aortic aneurysms. <b>2020</b> , 292, 112-118	18
229	Hybrid Cornea: Cell Laden Hydrogel Incorporated Decellularized Matrix. <b>2020</b> , 6, 122-133	6

## (2020-2020)

Endothelial shear stress and vascular remodeling in bioresorbable scaffold and metallic stent. 2020, 227 312, 79-89 Involvement of Matrix Metalloproteinase 9 in Vertebral Arterial Dissection With Posterior 226 Circulation Ischemic Stroke. 2020, 9, e016743 Up-regulation of FoxO1 contributes to adverse vascular remodelling in type 1 diabetic rats. 2020, 225 4 24, 13727-13738 Biomaterials for Bioprinting Microvasculature. 2020, 120, 10887-10949 224 25 Anti-Inflammatory Actions of Soluble Ninjurin-1 Ameliorate Atherosclerosis. 2020, 142, 1736-1751 223 16 The Roles of Matrix Metalloproteinases and Their Inhibitors in Human Diseases. 2020, 21, 222 122 3D Bioprinting for Vascularized Tissue-Engineered Bone Fabrication. 2020, 13, 28 221 Metalloproteinases and Their Inhibitors: Potential for the Development of New Therapeutics. 2020, 220 79 Association of the interaction between the rs9619311 and rs402007 polymorphisms and smoking 219 2 with essential hypertension in Chinese Han population. 2020, 99, e20552 218 Imaging the Extracellular Matrix in Prevalent Cardiovascular Diseases. 2020, 10, 4001 1 Artificial intelligence in medical imaging: A radiomic guide to precision phenotyping of 217 22 cardiovascular disease. 2020, 116, 2040-2054 Human Adventitial Fibroblast Phenotype Depends on the Progression of Changes in Substrate 216 7 Stiffness. 2020, 9, e1901593 Matrix metalloproteinase -2, -9 and arterial stiffness in children and adolescents: The role of 215 3 chronic kidney disease, diabetes, and hypertension. 2020, 4, 100025 Protease Amplification of the Inflammatory Response Induced by Commensal Bacteria: 214 2 Implications for Racial Disparity in Term and Preterm Birth. 2020, 27, 246-259 Exploring the role of extracellular matrix proteins to develop biomarkers of plaque vulnerability 213 20 and outcome. 2020, 287, 493-513 PR3 levels are impaired in plasma and PBMCs from Arabs with cardiovascular diseases. 2020, 15, e0227606 212 Tissue-specific relaxin-2 is differentially associated with the presence/size of an arterial aneurysm 211 2 and the severity of atherosclerotic disease in humans. 2020, 41, 745-752 A novel role of MMP2 in regulating platelet NOX2 activation. 2020, 152, 355-362 210

209	Lipid metabolism as a mechanism of immunomodulation in macrophages: the role of liver X receptors. <b>2020</b> , 53, 18-26	8
208	Bioinformatics Gene Analysis of Potential Biomarkers and Therapeutic Targets for Unstable Atherosclerotic Plaque-Related Stroke. <b>2021</b> , 71, 1031-1045	7
207	Coronary remodeling and biomechanics: Are we going with the flow in 2020?. <b>2021</b> , 320, H584-H592	4
206	Mechanisms of Vascular Remodeling in Hypertension. <b>2021</b> , 34, 432-441	6
205	Association between serum matrix metalloproteinase-9 and poor prognosis in acute ischemic stroke patients: The role of dyslipidemia. <b>2021</b> , 31, 209-215	1
204	Effect of bevacizumab and everolimus combination treatment on peritoneal sclerosis in an experimental rat model. <b>2021</b> , 25, 323-330	
203	Reduction in MicroRNA-4488 Expression Induces NF <b>B</b> Translocation in Venous Endothelial Cells Under Arterial Flow. <b>2021</b> , 35, 61-71	2
202	Inactivation of HIF-prolyl 4-hydroxylases 1, 2 and 3 in NG2-expressing cells induces HIF2-mediated neurovascular expansion independent of erythropoietin. <b>2021</b> , 231, e13547	4
201	Serum Bilirubin and Coronary Artery Disease: Intricate Relationship, Pathophysiology, and Recent Evidence. <b>2021</b> , 46, 100431	4
200	Metalloproteinases genes and their relationship with depression. <b>2021</b> , 59-67	
199	Characteristics of matrix metalloproteinases and their role in embryogenesis of the mammalian respiratory system. <b>2021</b> , 75, 24-34	1
198	Mean Platelet Volume/Platelet Count and Atherosclerosis Research Progress of Cardiovascular Diseases. <b>2021</b> , 11, 38-41	Ο
197	Antileishmanial Activity of Lignans, Neolignans, and Other Plant Phenols. 2021, 115, 115-176	
196	Inflammaging as a link between autoimmunity and cardiovascular disease: the case of rheumatoid arthritis. <b>2021</b> , 7,	6
195	Genetic and molecular biology of systemic lupus erythematosus among Iranian patients: an overview. <b>2021</b> , 12, 2	1
194	Urinary Markers of Podocyte Dysfunction in Chronic Glomerulonephritis. <b>2021</b> , 1306, 81-99	O
193	Molecular Imaging of Atherosclerosis. <b>2021</b> , 1193-1223	
192	Nicotine and vascular dysfunction. <b>2021</b> , 231, e13631	6

191	Role of Gelatinases MMP-2 and MMP-9 in Healthy and Complicated Pregnancy and Their Future Potential as Preeclampsia Biomarkers. <b>2021</b> , 11,	9
190	Establishment of a Novel Mouse Model for Atherosclerotic Vulnerable Plaque. <b>2021</b> , 8, 642751	1
189	Targeting MMP-Regulation of Inflammation to Increase Metabolic Tolerance to COVID-19 Pathologies: A Hypothesis. <b>2021</b> , 11,	9
188	Hemodynamic Profiles Before and After Surgery in Bicuspid Aortic Valve Disease-A Systematic Review of the Literature. <b>2021</b> , 8, 629227	
187	Inflammation, Nitro-Oxidative Stress, Impaired Autophagy, and Insulin Resistance as a Mechanistic Convergence Between Arterial Stiffness and Alzheimer's Disease. <b>2021</b> , 8, 651215	6
186	Plasma levels of tissue inhibitor of metalloproteinase-1 in patients with type 1 diabetes mellitus associate with early diabetic neuropathy and nephropathy. <b>2021</b> , 18, 14791641211002470	O
185	Edothelial and microvascular function in CKD: Evaluation methods and associations with outcomes. <b>2021</b> , 51, e13557	0
184	Fucoxanthin alters the apelin-13/APJ pathway in certain organs of Erradiated mice. 2021, 62, 600-617	5
183	Chronic Obstructive Pulmonary Disease and the Cardiovascular System: Vascular Repair and Regeneration as a Therapeutic Target. <b>2021</b> , 8, 649512	7
182	Matrix Metalloproteinases and Arterial Hypertension: Role of Oxidative Stress and Nitric Oxide in Vascular Functional and Structural Alterations. <b>2021</b> , 11,	6
181	DNA glycosylase Neil3 regulates vascular smooth muscle cell biology during atherosclerosis development. <b>2021</b> , 324, 123-132	4
180	Predictors of Cardiovascular Affection in Patients with Active Rheumatoid Arthritis: Secondary Analysis of a Randomized Controlled Trial. <b>2021</b> , 17, 258-266	O
179	Mechano-chemo-biological Computational Models for Arteries in Health, Disease and Healing: From Tissue Remodelling to Drug-eluting Devices. <b>2021</b> , 27, 1904-1917	2
178	Matrix metallopeptidase 9 and placental growth factor may correlate with collateral status based on whole-brain perfusion combined with multiphase computed tomography angiography. <b>2021</b> , 43, 838-845	
177	Two MicroRNAs, miR-34a and miR-125a, Are Implicated in Bicuspid Aortopathy by Modulating Metalloproteinase 2. <b>2021</b> , 1	
176	Integrative analysis of key candidate genes and signaling pathways in acute coronary syndrome related to obstructive sleep apnea by bioinformatics. <b>2021</b> , 11, 14153	O
175	Different circulating biomarkers in women and men with paroxysmal atrial fibrillation: results from the AF-RISK and RACE V studies. <b>2021</b> ,	0
174	A High-Cholesterol Diet Increases Toll-like Receptors and Other Harmful Factors in the Rabbit Myocardium: The Beneficial Effect of Statins. <b>2021</b> , 43, 818-830	1

173	Cardiovascular Disease Complicating COVID-19 in the Elderly. <b>2021</b> , 57,	2
172	Novel molecular markers of cardiovascular disease risk in type 2 diabetes mellitus. <b>2021</b> , 1867, 166148	4
171	High ligand density drives extensive spreading and motility on soft GelMA gels. 2021, 16,	0
170	Identification of intima-to-media signals for flow-induced vascular remodeling using correlative gene expression analysis. <b>2021</b> , 11, 16142	3
169	Central and peripheral arterial stiffness responses to uninterrupted prolonged sitting combined with a high-fat meal: a randomized controlled crossover trial. <b>2021</b> , 44, 1332-1340	0
168	Genetic Variation of Inflammatory Genes to Ischemic Stroke Risk in a Chinese Han Population. <b>2021</b> , 14, 977-986	O
167	High Glucose and Advanced Glycation End Products Induce CD147-Mediated MMP Activity in Human Adipocytes. <b>2021</b> , 10,	1
166	The function of matrix metalloproteinase-9 (MMP-9) and its tissue inhibitor (TIMP-1) in several clinical conditions: Results and analysis of our survey. <b>2021</b> , 78, 401-416	2
165	Dual-sized inverted colloidal crystal scaffolds grafted with GDF-8 and Wnt3a for enhancing differentiation of iPS cells toward islet Ecells. <b>2021</b> , 126, 371-382	2
164	The Bladder Is a Novel Target of Developmental Polychlorinated Biphenyl Exposure Linked to Increased Inflammatory Cells in the Bladder of Young Mice. <b>2021</b> , 9,	1
163	Peroxisome proliferator-activated receptor agonist (pioglitazone) with exogenous adiponectin ameliorates arterial stiffness and oxidative stress in diabetic Wistar Kyoto rats. <b>2021</b> , 907, 174218	2
162	Involvement of Angiogenesis in the Pathogenesis of Coronary Aneurysms. <b>2021</b> , 9,	2
161	Matrix metalloproteinase-2 on activated platelets triggers endothelial PAR-1 initiating atherosclerosis. <b>2021</b> ,	4
160	Imaging Inflammation in Patients and Animals: Focus on PET Imaging the Vulnerable Plaque. <b>2021</b> , 10,	1
159	Cell-based assays and molecular simulation reveal that the anti-cancer harmine is a specific matrix metalloproteinase-3 (MMP-3) inhibitor. <b>2021</b> , 94, 107556	1
158	Immuno-regenerative biomaterials for in situ cardiovascular tissue engineering - Do patient characteristics warrant precision engineering?. <b>2021</b> , 178, 113960	7
157	Statins, toxicity, and their adverse effects via oxidative imbalance. <b>2021</b> , 263-280	
156	The Syndrome of Insulin Resistance and Its Links to Atherosclerosis.	1

155	Neointimal Hyperplasia: Basic Considerations. 178-196	3
154	Imaging biomarkers predictive of disease/therapy outcome: ischemic stroke and drug development. <b>2005</b> , 62, 319-56	6
153	Use of Acoustically Active Contrast Agents in Imaging of Inflammation and Atherosclerosis. 2008, 343-368	5
152	Cellular and Molecular Mechanisms of Pulmonary Vascular Smooth Muscle Cell Proliferation. <b>2011</b> , 323-334	2
151	Matrix Metalloproteinases and Hypertension. <b>2014</b> , 279-293	1
150	Vascular Aging. <b>2005</b> , 517-547	1
149	Arterial Remodeling. <b>2007</b> , 213-225	2
148	Vascular Remodeling in Health and Disease. <b>2007</b> , 1541-1565	1
147	The Effects of Hypertension and Stroke on the Cerebral Vasculature. <b>2016</b> , 81-108	2
146	Lipotoxicity-Related Hematological Disorders in Obesity. <b>2017</b> , 960, 469-487	3
145	Vascular Endothelial Responses to Disturbed Flow: Pathologic Implications for Atherosclerosis. <b>2008</b> , 469-496	1
144	Effect of Ozone on Cutaneous Tissues. <b>2010</b> , 411-420	1
143	M. <b>2013</b> , 903-984	2
142	Coronary Artery Disease: From Mechanism to Clinical Practice. <b>2020</b> , 1177, 1-36	33
141	Vascular Smooth Muscle. <b>2006,</b> 17-30	О
140	Connective Tissues of the Subendothelium. <b>2006</b> , 31-60	2
139	Tunable DNA release from cross-linked ultrathin DNA/PLL multilayered films. 2006, 17, 77-83	80
138	In vitro biomarker discovery for atherosclerosis by proteomics. <b>2004</b> , 3, 1200-10	74

137	Low-dose continuous combinations of hormone therapy and biochemical surrogate markers for vascular tone and inflammation: transdermal versus oral application. <b>2007</b> , 14, 978-84	20
136	Migration of monocytes/macrophages in vitro and in vivo is accompanied by MMP12-dependent tunnel formation and by neovascularization. <b>2002</b> , 67, 209-15	11
135	NAMPT/SIRT1 Attenuate Ang II-Induced Vascular Remodeling and Vulnerability to Hypertension by Inhibiting the ROS/MAPK Pathway. <b>2020</b> , 2020, 1974265	6
134	Getting stents to go with the flow. <b>2004</b> , 113, 1532-4	2
133	ECM remodeling in hypertensive heart disease. <b>2007</b> , 117, 568-75	642
132	Numerical knockouts-In silico assessment of factors predisposing to thoracic aortic aneurysms. <b>2020</b> , 16, e1008273	8
131	Increased levels of leukocyte-derived MMP-9 in patients with stable angina pectoris. <b>2011</b> , 6, e19340	34
130	Pharmacogenetic associations of MMP9 and MMP12 variants with cardiovascular disease in patients with hypertension. <b>2011</b> , 6, e23609	20
129	Dietary cholesterol-induced post-testicular infertility. <b>2011</b> , 6, e26966	28
128	Intracranial aneurysm formation in type-one diabetes rats. <b>2013</b> , 8, e67949	11
127	Characterization of partial ligation-induced carotid atherosclerosis model using dual-modality molecular imaging in ApoE knock-out mice. <b>2013</b> , 8, e73451	15
126	Impact of age-dependent adventitia inflammation on structural alteration of abdominal aorta in hyperlipidemic mice. <b>2014</b> , 9, e105739	8
125	The MMP-9 -1562 C/T polymorphism in the presence of metabolic syndrome increases the risk of clinical events in patients with coronary artery disease. <b>2014</b> , 9, e106816	19
124	Foam Cell Formation In Vivo Converts Macrophages to a Pro-Fibrotic Phenotype. <b>2015</b> , 10, e0128163	31
123	Local Augmented Angiotensinogen Secreted from Apoptotic Vascular Endothelial Cells Is a Vital Mediator of Vascular Remodelling. <b>2015</b> , 10, e0132583	15
122	Alpha1a-Adrenoceptor Genetic Variant Triggers Vascular Smooth Muscle Cell Hyperproliferation and Agonist Induced Hypertrophy via EGFR Transactivation Pathway. <b>2015</b> , 10, e0142787	4
121	Effects of Mesenchymal Stem Cell Treatment on the Expression of Matrix Metalloproteinases and Angiogenesis during Ischemic Stroke Recovery. <b>2015</b> , 10, e0144218	31
120	A matrix metalloproteinase inhibitor, ONO-4817, suppresses the development of aortic intimal hyperplasia in experimental hyperlipidemic rabbit. <b>2007</b> , 48, 369-78	5

119	LncRNA GUSBP5-AS promotes EPC migration and angiogenesis and deep vein thrombosis resolution by regulating FGF2 and MMP2/9 through the miR-223-3p/FOXO1/Akt pathway. <b>2020</b> , 12, 4506-452	26 <sup>17</sup>
118	Usefulness of plasma matrix metalloproteinase-9 levels in prediction of in-hospital mortality in patients who received emergent percutaneous coronary artery intervention following myocardial infarction. <b>2017</b> , 8, 105809-105818	7
117	Recent Advances in Understanding the Pathogenesis of Cardiovascular Diseases and Development of Treatment Modalities. <b>2019</b> , 19, 19-32	5
116	Expanded Network of Inflammatory Markers of Atherogenesis: Where Are We Now?. <b>2010</b> , 4, 38-44	3
115	Arterial structure and function in inflammatory bowel disease. 2015, 21, 11304-11	39
114	A primer on the immune system in the pathogenesis and treatment of atherosclerosis. <b>2008</b> , 4, 378-90	9
113	Multiple complex coronary atherosclerosis in diabetic patients with acute myocardial infarction: a three-vessel optical coherence tomography study. <b>2012</b> , 8, 955-61	17
112	Potential role of selected biomarkers for predicting the presence and extent of coronary artery disease. <b>2010</b> , 154, 219-25	3
111	. <b>2019</b> , 33,	1
110	Mechano-regulated cell-cell signaling in the context of cardiovascular tissue engineering. 2021, 1	O
109	Saturated fat ingestion stimulates proatherogenic inflammation in polycystic ovary syndrome. <b>2021</b> , 321, E689-E701	2
108	Proprotein Convertase Subtilisin/Kexin Type 9 and Systemic Inflammatory Biomarker Pentraxin 3 for Risk Stratification Among STEMI Patients Undergoing Primary PCI. <b>2021</b> , 14, 5319-5335	O
107	Preparation and In Vitro Characterization of Gelatin Methacrylate for Corneal Tissue Engineering. <b>2021</b> , 1	0
106	Arterial Stiffness as a Cardiovascular Risk Factor for the Development of Preeclampsia and Pharmacopreventive Options. <b>2021</b> ,	
105	Matrix metalloproteinase inhibitors attenuate endotoxemia induced cardiac dysfunction: A potential role for MMP-9. <b>2003</b> , 61-66	1
104	Genetic Regulation of Metalloproteinase Activity: Pathogenic and Therapeutic Implications. <b>2004</b> , 341-358	
103	Extracellular Superoxide Dismutase with Vaccinia Virus Anti-inflammatory Protein 35K or Tissue Inhibitor of Metalloproteinase-1: Combination Gene Therapy in the Treatment of Vein Graft Stenosis in Rabbits. <b>2006</b> , 060317071703001	
102	Polymorphisms in Cardiovascular Medicine. <b>2006</b> , 209-242	

101	Application to Vascular Adventitia of a Nonviral Vector for TIMP-1 Gene Therapy to Prevent Intimal Hyperplasia. <b>2006</b> , 060801084750029
100	Mechanical Loading Modulates the Differentiation State of Vascular Smooth Muscle Cells. <b>2006</b> , 061020070827002
99	M. <b>2007</b> , 869-941
98	Pathobiologic Determinants of Carotid Plaque Development. 2008, 44-68
97	Recent Strategies to Improve Graft Performance in Patients Undergoing Coronary Artery Bypass Surgery. Are Best Results Achieved by Improved Surgical Techniques of Graft Preparation?. <b>2009</b> , 371-397
96	Atherosclerotic Risk Factors. <b>2010</b> , 394-408
95	Donnès Anatomopathologiques en Pathologie Vasculaire. <b>2010</b> , 5-28
94	Correlation between the SYNTAX Score and serum matrix metalloproteinase-3 levels in patients with chronic coronary heart disease. <b>2010</b> , 52, 238-243
93	Pathology of Aortic Stenosis. 71-85
92	Endovascular Repair of Thoracic Aortic Aneurysms. 545-555
91	Adenosine pretreatment attenuates angiotensin II-mediated p38 MAPK activation in a protein kinase A dependent manner. <b>2010</b> , 4, 721-729
90	Noninvasive Targeting of Vulnerable Carotid Plaques for Therapeutic Interventions. 2011, 457-495
89	Pathophysiology of coronary thrombosis. <b>2011</b> , 62-72
88	Chronic inflammation and atherosclerosis : A critical role for renin angiotensin system that is activated by lifestyle-related diseases. <b>2011</b> , 31, 245-255
87	Matrix metalloproteinase 9, superoxide dismutase and lipid peroxidation in preterm newborns with perinatal hypoxia. <b>2011</b> , 10, 26-29
86	Molecular Imaging of Vascular Inflammation, Atherosclerosis, and Thrombosis. <b>2012</b> , 129-166
85	Increased serum activity of matrix metalloproteinase-9 in patients with acute variceal bleeding. 2012, 6, 249-55
84	Role of endothelial shear stress in the destabilization of coronary plaque: Acute coronary syndromes and rapid plaque progression. <b>2012</b> , 212-226

83	Novel Biomarkers of Cardiovascular Disease. <b>2013</b> , 27-43	
82	The Mechanism of Stem Cell Differentiation into Smooth Muscle Cells. <b>2013</b> , 1-32	
81	Basic Principles of Molecular Pathophysiology and Etiology of Cardiovascular Disorders. <b>2013</b> , 1-23	
80	Vascular Endothelium and Local Tissue Renin-Angiotensin Systems. <b>2013</b> , 337-355	
79	Molecular Imaging of Inflammation and Intraplaque Vasa Vasorum. <b>2014</b> , 299-316	
78	Magnetic Resonance Imaging of Vulnerable Carotid Plaques. <b>2014</b> , 107-119	1
77	MMPs in Cardiovascular Diseases: Emerging Pharmacological Targets. <b>2014</b> , 407-426	1
76	Matrix Metalloprotease-2 in the Development and Progression of Cardiovascular Diseases. <b>2014</b> , 351-364	
75	Targeting Matrix Metalloproteinase 2 and 9 for Treatment of Cardiovascular Dysfunction of Diabetes. <b>2014</b> , 359-375	
74	Residual Risk and Biology of the Disease: Implications for Plaque Imaging. <b>2014</b> , 1-21	
73	Structural Alterations in Arterial Stiffness: Role of Arterial Fibrosis. <b>2014</b> , 205-213	
72	Intravascular Molecular Imaging of Proteolytic Activity. <b>2015</b> , 79-106	
71	Growth Factor Delivery Matrices for Cardiovascular Regeneration. 2015, 159-214	
70	Central pulse pressure and variability in matrix metalloproteinases genes and their inhibitors in patients with ischemic heart disease. <b>2014</b> , 63, S497-507	2
69	Mechanisms of Cardiac Fibrosis and Heart Failure. <b>2015</b> , 279-297	
68	Cutaneous Responses to Tropospheric Ozone Exposure. <b>2015</b> , 1-15	
67	The Pulmonary Vasculature in Chronic Obstructive Lung Disease. <b>2015</b> , 351-379	1
66	Effect of Soybean Fallen Leaves Ethanolic Extract on Expression of Proteins Related to Antioxidant Activity and Cell Invasion. <b>2016</b> , 26, 439-445	

Genetic Factors in Giant Cell Arteritis and Polymyalgia Rheumatica. 2017, 57-68 65 Matrix-Metalloproteinasen. 2018, 1-2 64 The role of matrix metalloproteinases and polymorphisms of their genes in the development of 63 coronary heart disease. **2018**, 64, 79-90 Biomarkers for unstable atherosclerotic plaques in carotid arteries. 2019, 17, 290-294 62 Matrix-Metalloproteinasen. 2019, 1589-1590 61 Pathophysiology of Atherosclerosis. 2020, 19-45 60 Evaluation of CD147 gene expression, lipid peroxidation, and antioxidants in cases of acute 2 59 coronary syndrome in Egyptian population. **2020**, 21, The Role of Elastin Degradation in Vascular Calcification: Possibilities to Repair Elastin and Reverse 58 Calcification. **2020**, 441-480 The Role of Angiotensin II Type 1 Receptor-Activating Antibodies in Vascular Inflammation. 2020, 57 10, 225-234 56 The Renin-Angiotensin System in the Breast. 2007, 135-153 The Aetiology of Vascular Disease. 2007, 1-6 55 Serum Biomarkers and Classification and Regression Trees Can Discriminate Symptomatic from 54 Asymptomatic Carotid Artery Disease Patients. Synergistic actions between angiotensin-converting enzyme inhibitors and statins in 53 1 atherosclerosis.. 2021. Multiparametric analysis of coronary flow in psoriasis using a coronary flow reserve companion. 2021, e13711 Hexahydrocurcumin ameliorates hypertensive and vascular remodeling in L-NAME-induced rats. 51 1 2021, 166317 Genetic Polymorphism of Matrix Metalloproteinase-9 and Susceptibility to Myocardial Infarction: A 50 Meta-Analysis.. 2022, 2022, 5507153 Vascular Endothelial Cell Dysfunction in Preeclampsia. 2022, 187-218 49

Low load strength training, associated with or without blood flow restriction increased NO

production and decreased production of reactive oxygen species in the in rats aorta.. 2022, 120350

48

47	CKAP4 contributes to the progression of vascular calcification (VC) in chronic kidney disease (CKD) by modulating YAP phosphorylation and MMP2 expression <b>2022</b> , 93, 110270	
46	The central arterial stiffness parameters in decompensated versus compensated states of heart failure: a paired comparative cohort study <b>2022</b> , 74, 2	
45	Cardiovascular Health Does Not Change Following High-Intensity Interval Training in Women with Polycystic Ovary Syndrome <b>2022</b> , 11,	
44	Platelet Membrane Biomimetic Nanoparticles Combined With UTMD to Improve the Stability of Atherosclerotic Plaques <b>2022</b> , 10, 868063	2
43	Twenty-Five Novel Loci for Carotid Intima-Media Thickness: A Genome-Wide Association Study in >45 000 Individuals and Meta-Analysis of >100 000 Individuals. <b>2021</b> , ATVBAHA121317007	O
42	Migrasomes. <b>2022</b> , 193-202	
41	Arterial stiffness and pulsatile hemodynamics in thoracic aortopathies. 2022, 713-726	
40	Matrix Metalloproteinases on Severe COVID-19 Lung Disease Pathogenesis: Cooperative Actions of MMP-8/MMP-2 Axis on Immune Response through HLA-G Shedding and Oxidative Stress. <b>2022</b> , 12, 604	3
39	Cathepsin K contributed to disturbed flow-induced atherosclerosis is dependent on integrin-actin cytoskeleton-NF-B pathway. <b>2022</b> ,	
38	Pathophysiology of metalloproteinase matrix in relation to morbid obesity and associated pathologies. <b>2022</b> , 8, 411-419	
37	Transdural Revascularization by Multiple Burrhole After Erythropoietin in Stroke Patients With Cerebral Hypoperfusion: A Randomized Controlled Trial <b>2022</b> , 101161STROKEAHA122038650	
36	Mechanistic insight into lysyl oxidase in vascular remodeling and angiogenesis. 2022,	O
35	New Insights into the Pathogenesis of Giant Cell Arteritis: Mechanisms Involved in Maintaining Vascular Inflammation. <b>2022</b> , 11, 2905	1
34	The Effect of Chronic Immunosuppressive Regimens Treatment on Aortal Media Morphology and the Balance between Matrix Metalloproteinases (mmp-2 and mmp-9) and Their Inhibitors in the Abdominal Aorta of Rats. <b>2022</b> , 19, 6399	
33	Withania somnifera (Ashwagandha) root extract counteract acute and chronic impact of Fadiation on liver and spleen of rats. <b>2022</b> , 41, 096032712211063	1
32	The Role of Obesity, Inflammation and Sphingolipids in the Development of an Abdominal Aortic Aneurysm. <b>2022</b> , 14, 2438	O
31	Plasma matrix metalloproteinases (MMP-2 and MMP-9) as prognostic biomarkers in coronary heart disease.	О
30	Aggressive Strategies for Regenerating Intervertebral Discs: Stimulus-Responsive Composite Hydrogels from Single to Multiscale Delivery Systems.	O

29	Enablers and drivers of vascular remodeling. <b>2022</b> , 277-285	
28	Die Rolle der Matrix-Metalloproteinasen 2 und 9 in der Pathogenese des Aortenaneurysmas.	
27	Role of platelet factor 4 in arteriovenous fistula maturation failure: What do we know so far?. 11297298	32210854
26	Colchicine Impacts Leukocyte Trafficking in Atherosclerosis and Reduces Vascular Inflammation. 13,	3
25	SVEP1 regulates GPCR-mediated vasoconstriction via integrin 911 and 411.	0
24	OLDER PATIENTS AND PATIENTS WITH SEVERE ARTERIOSCLEROSIS ARE LESS LIKELY TO DEVELOP KELOIDS AND HYPERTROPHIC SCARS AFTER THORACIC MIDLINE INCISION: A SURVEY-BASED ANALYSIS OF 328 CASES. Publish Ahead of Print,	
23	ADAM17 cleaves the insulin receptor ectodomain on endothelial cells and causes vascular insulin resistance.	0
22	Extracellular Matrix Targeted MRI Probes.	
21	Molekulare Biomarker der Atherosklerose.	
20	Targeted delivery of platelet membrane modified extracellular vesicles into atherosclerotic plaque to regress atherosclerosis. <b>2022</b> , 138992	1
19	Collagen Molecular Damage is a Hallmark of Early Atherosclerosis Development.	O
18	Clinical significance of neutrophil gelatinase-associated lipocalin and sdLDL-C for coronary artery disease in patients with type 2 diabetes mellitus aged 低5 years.	O
17	Hypothalamic-Pituitary-Adrenal Axis. <b>2022</b> , 941-974	О
16	Sphingolipids in Atherosclerosis: Chimeras in Structure and Function. <b>2022</b> , 23, 11948	1
15	Vascular smooth muscle cell dysfunction in neurodegeneration. 16,	О
14	Global trends and Frontier topics about vascular smooth muscle cells phenotype switch: A bibliometric analysis from 1999 to 2021. 13,	O
13	LOX-1 deficiency increases ruptured abdominal aortic aneurysm via thinning of adventitial collagen.	О
12	Coronary Artery Disease and Aortic Valve Stenosis: A Urine Proteomics Study. <b>2022</b> , 23, 13579	O

## CITATION REPORT

11	Clinical significance of neutrophil gelatinase-associated lipocalin and sdLDL-C for coronary artery disease in patients with type 2 diabetes mellitus aged 🛭 years. <b>2022</b> , 21,	О
10	Injectable methacrylated gelatin/thiolated pectin hydrogels carrying melatonin/tideglusib-loaded core/shell PMMA/silk fibroin electrospun fibers for vital pulp regeneration. <b>2023</b> , 222, 113078	o
9	Quantification of Local Vessel Wall and Plaque Volume Change for Assessment of Effects of Therapies on Carotid Atherosclerosis Based on 3-D Ultrasound Imaging. <b>2022</b> ,	O
8	Quercetin decreases cardiac hypertrophic mediators and maladaptive coronary arterial remodeling in renovascular hypertensive rats without improving cardiac function.	o
7	Serum Metalloproteinase-2 and Tissue Ehibitor Metalloproteinase-1 Levels As a Biomarker in Patients With Osteoarthritis Due To Brucella Efection. 410-418	O
6	Factors Associated with RANTES, EMMPIRIN, MMP2 and MMP9, and the Association of These Biomarkers with Cardiovascular Disease in a Multi-Ethnic Population. <b>2022</b> , 11, 7281	o
5	Chronic cerebral hypoperfusion alters the CypA-EMMPRIN-gelatinase pathway: Implications for vascular dementia. 0271678X2211464	O
4	Renin Angiotensin System in the Maturation and Failure of Arterio-Venous Fistula. <b>2023</b> , 291-303	O
3	Biomarkers for prognostic functional recovery poststroke: A narrative review. 10,	О
2	Positron Emission Tomography Imaging of Vessel Wall Matrix Metalloproteinase Activity in Abdominal Aortic Aneurysm. <b>2023</b> , 16,	O
1	Biophysical cues of in vitro biomaterials-based artificial extracellular matrix guide cancer cell plasticity. <b>2023</b> , 19, 100607	0