Manuel Mayr

List of Publications by Year in Descending Order

246 papers	19,455 citations	77 h-index	133 g-index
274 ext. papers	22,818 ext. citations	9 avg, IF	6.53 L-index

#	Paper	IF	Citations
246	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC working group on myocardial function and the ESC Working Group on Cellular Biology of the Heart.. *Cardiovascular Research*, **2022**,	9.9	3
245	Sexual dimorphism in COVID-19: potential clinical and public health implications.. *Lancet Diabetes and Endocrinology,the*, **2022**,	18.1	9
244	Circulating microRNAs as biomarkers and mediators of platelet activation.. *Platelets*, **2022**, 1-8	3.6	1
243	Methods for the identification and characterization of extracellular vesicles in cardiovascular studies - from exosomes to microvesicles.. *Cardiovascular Research*, **2022**,	9.9	4
242	Isolation of Circulating Extracellular Vesicles by High-Performance Size-Exclusion Chromatography.. *Methods in Molecular Biology*, **2022**, 2504, 31-40	1.4	1
241	Association of adolescent lipoprotein subclass profile with carotid intima-media thickness and comparison to adults: Prospective population-based cohort studies.. *Atherosclerosis*, **2021**, 341, 34-42	3.1	
240	The Extracellular Matrix in Heart Failure: The Role of Adamts5 In Proteoglycan Remodelling. *Circulation*, **2021**,	16.7	2
239	Neutrophil-Derived Protein S100A8/A9 Alters the Platelet Proteome in Acute Myocardial Infarction and Is Associated With Changes in Platelet Reactivity. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, ATVBAHA121317113	9.4	2
238	PCSK9 Activity Is Potentiated Through HDL Binding. *Circulation Research*, **2021**, 129, 1039-1053	15.7	0
237	Association of cardiometabolic microRNAs with COVID-19 severity and mortality. *Cardiovascular Research*, **2021**,	9.9	6
236	Fibroblast GATA-4 and GATA-6 promote myocardial adaptation to pressure overload by enhancing cardiac angiogenesis. *Basic Research in Cardiology*, **2021**, 116, 26	11.8	8
235	Impairment of the ER/mitochondria compartment in human cardiomyocytes with PLN p.Arg14del mutation. *EMBO Molecular Medicine*, **2021**, 13, e13074	12	7
234	Lipoprotein compartmentalisation as a regulator of PCSK9 activity. *Journal of Molecular and Cellular Cardiology*, **2021**, 155, 21-24	5.8	1
233	Lessons from the spatiotemporal expression patterns of RNA vs. proteins during the cell cycle. *Cardiovascular Research*, **2021**, 117, e91-e93	9.9	
232	SARS-CoV-2 RNAemia and proteomic trajectories inform prognostication in COVID-19 patients admitted to intensive care. *Nature Communications*, **2021**, 12, 3406	17.4	41
231	DRP1: a novel regulator of PCSK9 secretion and degradation. *Cardiovascular Research*, **2021**, 117, 2289-2290	9.9	0
230	The Landscape of Coding and Noncoding RNAs in Platelets. *Antioxidants and Redox Signaling*, **2021**, 34, 1200-1216	8.4	9

229	Towards standardization of echocardiography for the evaluation of left ventricular function in adult rodents: a position paper of the ESC Working Group on Myocardial Function. *Cardiovascular Research*, **2021**, 117, 43-59	9.9	25
228	Fibroblast Nox2 (NADPH Oxidase-2) Regulates ANG II (Angiotensin II)-Induced Vascular Remodeling and Hypertension via Paracrine Signaling to Vascular Smooth Muscle Cells. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2021**, 41, 698-710	9.4	5
227	A Proteomics-Based Assessment of Inflammation Signatures in Endotoxemia. *Molecular and Cellular Proteomics*, **2021**, 20, 100021	7.6	4
226	Systems biology in cardiovascular disease: a multiomics approach. *Nature Reviews Cardiology*, **2021**, 18, 313-330	14.8	40
225	Loss of hepatic miR-33 improves metabolic homeostasis and liver function without altering body weight or atherosclerosis. *Proceedings of the National Academy of Sciences of the United States of America*, **2021**, 118,	11.5	8
224	Proteome and functional decline as platelets age in the circulation. *Journal of Thrombosis and Haemostasis*, **2021**, 19, 3095-3112	15.4	5
223	Endothelial cells exposed to atheroprotective flow secrete follistatin-like 1 protein which reduces transcytosis and inflammation. *Atherosclerosis*, **2021**, 333, 56-66	3.1	2
222	Protein Aggregation Is an Early Manifestation of Phospholamban p.(Arg14del)-Related Cardiomyopathy: Development of PLN-R14del-Related Cardiomyopathy. *Circulation: Heart Failure*, **2021**, 14, e008532	7.6	2
221	Diminished PLK2 Induces Cardiac Fibrosis and Promotes Atrial Fibrillation. *Circulation Research*, **2021**, 129, 804-820	15.7	2
220	Paracrine signalling by cardiac calcitonin controls atrial fibrogenesis and arrhythmia. *Nature*, **2020**, 587, 460-465	50.4	19
219	Platelet Reactivity in Individuals Over 65 Years Old Is Not Modulated by Age. *Circulation Research*, **2020**, 127, 394-396	15.7	1
218	microRNAs as promising biomarkers of platelet activity in antiplatelet therapy monitoring. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	13
217	Noncoding RNAs versus Protein Biomarkers in Cardiovascular Disease. *Trends in Molecular Medicine*, **2020**, 26, 583-596	11.5	17
216	The "Digital Twin" to enable the vision of precision cardiology. *European Heart Journal*, **2020**, 41, 4556-4564	39.3	136
215	Pkm2 Regulates Cardiomyocyte Cell Cycle and Promotes Cardiac Regeneration. *Circulation*, **2020**, 141, 1249-1265	16.7	52
214	Preclinical development of a miR-132 inhibitor for heart failure treatment. *Nature Communications*, **2020**, 11, 633	17.4	59
213	High-Density Lipoproteins Are the Main Carriers of PCSK9 in the Circulation. *Journal of the American College of Cardiology*, **2020**, 75, 1495-1497	15.1	4
212	Circulating MicroRNA Levels Indicate Platelet and Leukocyte Activation in Endotoxemia Despite Platelet P2Y Inhibition. *International Journal of Molecular Sciences*, **2020**, 21,	6.3	11

211	Extracellular Matrix in Vascular Disease, Part 2/4: JACC Focus Seminar. *Journal of the American College of Cardiology*, **2020**, 75, 2189-2203	15.1	13
210	Metabolic recovery after weight loss surgery is reflected in serum microRNAs. *BMJ Open Diabetes Research and Care*, **2020**, 8,	4.5	5
209	Liver-specific microRNA-122 as prognostic biomarker in patients with chronic systolic heart failure. *International Journal of Cardiology*, **2020**, 303, 80-85	3.2	12
208	Aspirin, clopidogrel and prasugrel monotherapy in patients with type 2 diabetes mellitus: a double-blind randomised controlled trial of the effects on thrombotic markers and microRNA levels. *Cardiovascular Diabetology*, **2020**, 19, 3	8.7	17
207	Cathepsin A contributes to left ventricular remodeling by degrading extracellular superoxide dismutase in mice. *Journal of Biological Chemistry*, **2020**, 295, 12605-12617	5.4	1
206	Platelet "-omics" in health and cardiovascular disease. *Atherosclerosis*, **2020**, 307, 87-96	3.1	6
205	Cardiac dysfunction in cancer patients: beyond direct cardiomyocyte damage of anticancer drugs: novel cardio-oncology insights from the joint 2019 meeting of the ESC Working Groups of Myocardial Function and Cellular Biology of the Heart. *Cardiovascular Research*, **2020**, 116, 1820-1834	9.9	17
204	Proteomic landscape of TGF-β-induced fibrogenesis in renal fibroblasts. *Scientific Reports*, **2020**, 10, 19054	4.9	7
203	Right Ventricle Has Normal Myofilament Function But Shows Perturbations in the Expression of Extracellular Matrix Genes in Patients With Tetralogy of Fallot Undergoing Pulmonary Valve Replacement. *Journal of the American Heart Association*, **2020**, 9, e015342	6	3
202	A plasma proteogenomic signature for fibromuscular dysplasia. *Cardiovascular Research*, **2020**, 116, 63-73	9.9	17
201	Towards better definition, quantification and treatment of fibrosis in heart failure. A scientific roadmap by the Committee of Translational Research of the Heart Failure Association (HFA) of the European Society of Cardiology. *European Journal of Heart Failure*, **2019**, 21, 272-285	12.3	99
200	Comparative Analysis of Circulating Noncoding RNAs Versus Protein Biomarkers in the Detection of Myocardial Injury. *Circulation Research*, **2019**, 125, 328-340	15.7	59
199	Optogenetic Monitoring of the Glutathione Redox State in Engineered Human Myocardium. *Frontiers in Physiology*, **2019**, 10, 272	4.6	2
198	Locally different proteome in aortas from patients with stenotic tricuspid and bicuspid aortic valves *European Journal of Cardio-thoracic Surgery*, **2019**, 56, 458-469	3	7
197	Response by Schulte et al to Letter Regarding Article, "Comparative Analysis of Circulating Noncoding RNAs Versus Protein Biomarkers in the Detection of Myocardial Injury". *Circulation Research*, **2019**, 125, e22-e23	15.7	3
196	Glycoproteomic Analysis of the Aortic Extracellular Matrix in Marfan Patients. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2019**, 39, 1859-1873	9.4	18
195	Cartilage-like composition of keloid scar extracellular matrix suggests fibroblast mis-differentiation in disease. *Matrix Biology Plus*, **2019**, 4, 100016	5.1	7
194	Role of ADAMTS-5 in Aortic Dilatation and Extracellular Matrix Remodeling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2018**, 38, 1537-1548	9.4	48

193	The innate immune system in chronic cardiomyopathy: a European Society of Cardiology (ESC) scientific statement from the Working Group on Myocardial Function of the ESC. *European Journal of Heart Failure*, **2018**, 20, 445-459	12.3	67
192	Comparison of MOLLI, shMOLLLI, and SASHA in discrimination between health and disease and relationship with histologically derived collagen volume fraction. *European Heart Journal Cardiovascular Imaging*, **2018**, 19, 768-776	4.1	40
191	MicroRNA-21 and the Vulnerability of Atherosclerotic Plaques. *Molecular Therapy*, **2018**, 26, 938-940	11.7	9
190	Downregulation of MicroRNA-126 Augments DNA Damage Response in Cigarette Smokers and Patients with Chronic Obstructive Pulmonary Disease. *American Journal of Respiratory and Critical Care Medicine*, **2018**, 197, 665-668	10.2	32
189	Extracellular Matrix Proteomics Reveals Interplay of Aggrecan and Aggrecanases in Vascular Remodeling of Stented Coronary Arteries. *Circulation*, **2018**, 137, 166-183	16.7	56
188	Expanding the horizons of microRNA bioinformatics. *Rna*, **2018**, 24, 1005-1017	5.8	19
187	Metabolic changes in hypertrophic cardiomyopathies: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. *Cardiovascular Research*, **2018**, 114, 1273-1280	9.9	31
186	Inhibition of profibrotic microRNA-21 affects platelets and their releasate. *JCI Insight*, **2018**, 3,	9.9	16
185	An integrative translational approach to study heart failure with preserved ejection fraction: a position paper from the Working Group on Myocardial Function of the European Society of Cardiology. *European Journal of Heart Failure*, **2018**, 20, 216-227	12.3	59
184	In Aptamers They Trust: The Caveats of the SOMAscan Biomarker Discovery Platform from SomaLogic. *Circulation*, **2018**, 138, 2482-2485	16.7	40
183	The Emerging Role of the ADAMTS Family in Vascular Diseases. *Circulation Research*, **2018**, 123, 1279-1281	15.7	14
182	Characterisation of circulating biomarkers before and after cardiac resynchronisation therapy and their role in predicting CRT response: the COVERT-HF study. *Open Heart*, **2018**, 5, e000899	3	5
181	Non-coding RNAs in vascular disease - from basic science to clinical applications: scientific update from the Working Group of Myocardial Function of the European Society of Cardiology. *Cardiovascular Research*, **2018**, 114, 1281-1286	9.9	23
180	Higher spermidine intake is linked to lower mortality: a prospective population-based study. *American Journal of Clinical Nutrition*, **2018**, 108, 371-380	7	101
179	High-density lipoproteins in high resolution: Will proteomics solve the paradox for cardiovascular risk?. *Proteomics*, **2017**, 17, 1600426	4.8	2
178	Diabetes Mellitus-Induced Microvascular Destabilization in the Myocardium. *Journal of the American College of Cardiology*, **2017**, 69, 131-143	15.1	77
177	MicroRNA Biomarkers and Platelet Reactivity: The Clot Thickens. *Circulation Research*, **2017**, 120, 418-435	15.7	127
176	Very-Low-Density Lipoprotein-Associated Apolipoproteins Predict Cardiovascular Events and Are Lowered by Inhibition´of´APOC-III. *Journal of the American College of Cardiology*, **2017**, 69, 789-800	15.1	107

175	Mitochondria and ageing: role in heart, skeletal muscle and adipose tissue. *Journal of Cachexia, Sarcopenia and Muscle*, **2017**, 8, 349-369	10.3	160
174	Circulating microRNAs as Novel Biomarkers in Cardiovascular Disease: Basic and Technical Principles. *Cardiac and Vascular Biology*, **2017**, 83-101	0.2	1
173	Epigenomic and transcriptomic approaches in the post-genomic era: path to novel targets for diagnosis and therapy of the ischaemic heart? Position Paper of the European Society of Cardiology Working Group on Cellular Biology of the Heart. *Cardiovascular Research*, **2017**, 113, 725-736	9.9	85
172	Circulating MicroRNA-122 Is Associated With the Risk of New-Onset Metabolic Syndrome and Type 2 Diabetes. *Diabetes*, **2017**, 66, 347-357	0.9	141
171	Enzymatic lipid oxidation by eosinophils propagates coagulation, hemostasis, and thrombotic disease. *Journal of Experimental Medicine*, **2017**, 214, 2121-2138	16.6	58
170	Association Between Vascular Cell Adhesion Molecule 1 and Atrial Fibrillation. *JAMA Cardiology*, **2017**, 2, 516-523	16.2	28
169	Premature senescence of endothelial cells upon chronic exposure to TNF can be prevented by N-acetyl cysteine and plumericin. *Scientific Reports*, **2017**, 7, 39501	4.9	69
168	Genetic Dissection of the Impact of miR-33a and miR-33b during the Progression of Atherosclerosis. *Cell Reports*, **2017**, 21, 1317-1330	10.6	71
167	Extracellular matrix proteomics identifies molecular signature of symptomatic carotid plaques. *Journal of Clinical Investigation*, **2017**, 127, 1546-1560	15.9	73
166	Nox4 reprograms cardiac substrate metabolism via protein O-GlcNAcylation to enhance stress adaptation. *JCI Insight*, **2017**, 2,	9.9	29
165	CRISPR/Cas9 editing reveals novel mechanisms of clustered microRNA regulation and function. *Scientific Reports*, **2017**, 7, 8585	4.9	19
164	Reply: The Complex miRNAs-p53 Signaling Network in Cardiovascular Disease. *Journal of the American College of Cardiology*, **2017**, 69, 2100	15.1	7
163	Glycoproteomics of the Extracellular Matrix: A Method for Intact Glycopeptide Analysis Using Mass Spectrometry. *Journal of Visualized Experiments*, **2017**,	1.6	13
162	Plasma Proteomics for Epidemiology: Increasing Throughput With Standard-Flow Rates. *Circulation: Cardiovascular Genetics*, **2017**, 10,		13
161	Cardiac myocyte miR-29 promotes pathological remodeling of the heart by activating Wnt signaling. *Nature Communications*, **2017**, 8, 1614	17.4	106
160	Angiogenic microRNAs Linked to Incidence and Progression of Diabetic Retinopathy in Type 1 Diabetes. *Diabetes*, **2016**, 65, 216-27	0.9	81
159	Glycoproteomics Reveals Decorin Peptides With Anti-Myostatin Activity in Human Atrial Fibrillation. *Circulation*, **2016**, 134, 817-32	16.7	34
158	Native T1 and T2 mapping by CMR in lupus myocarditis: Disease recognition and response to treatment. *International Journal of Cardiology*, **2016**, 222, 717-726	3.2	59

157	Systems biology-opportunities and challenges: the application of proteomics to study the cardiovascular extracellular matrix. *Cardiovascular Research*, **2016**, 112, 626-636	9.9	20
156	From basic mechanisms to clinical applications in heart protection, new players in cardiovascular diseases and cardiac theranostics: meeting report from the third international symposium on "New frontiers in cardiovascular research". *Basic Research in Cardiology*, **2016**, 111, 69	11.8	36
155	Cardioprotection and lifespan extension by the natural polyamine spermidine. *Nature Medicine*, **2016**, 22, 1428-1438	50.5	532
154	Inadequate hepcidin serum concentrations predict incident type 2 diabetes mellitus. *Diabetes/Metabolism Research and Reviews*, **2016**, 32, 187-92	7.5	15
153	Extracellular matrix remodelling in response to venous hypertension: proteomics of human varicose veins. *Cardiovascular Research*, **2016**, 110, 419-30	9.9	35
152	Oxidant-induced Interprotein Disulfide Formation in Cardiac Protein DJ-1 Occurs via an Interaction with Peroxiredoxin 2. *Journal of Biological Chemistry*, **2016**, 291, 10399-410	5.4	31
151	Association of MicroRNAs and YRNAs With Platelet Function. *Circulation Research*, **2016**, 118, 420-432	15.7	125
150	"Young at heart": Regenerative potential linked to immature cardiac phenotypes. *Journal of Molecular and Cellular Cardiology*, **2016**, 92, 105-8	5.8	18
149	Correlates of serum hepcidin levels and its association with cardiovascular disease in an elderly general population. *Clinical Chemistry and Laboratory Medicine*, **2016**, 54, 151-61	5.9	15
148	Identification of cyclins A1, E1 and vimentin as downstream targets of heme oxygenase-1 in vascular endothelial growth factor-mediated angiogenesis. *Scientific Reports*, **2016**, 6, 29417	4.9	15
147	MicroRNAs in Cardiovascular Disease. *Journal of the American College of Cardiology*, **2016**, 68, 2577-2584	15.1	228
146	Chronic miR-29 antagonism promotes favorable plaque remodeling in atherosclerotic mice. *EMBO Molecular Medicine*, **2016**, 8, 643-53	12	46
145	Loss of Biglycan Enhances Thrombin Generation in Apolipoprotein E-Deficient Mice: Implications for Inflammation and Atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2016**, 36, e41-50	9.4	33
144	Guidelines for the functional annotation of microRNAs using the Gene Ontology. *Rna*, **2016**, 22, 667-76	5.8	31
143	Liver microRNAs: potential mediators and biomarkers for metabolic and cardiovascular disease?. *European Heart Journal*, **2016**, 37, 3260-3266	9.5	81
142	Pharmacogenetics of Clopidogrel: An Unresolved Issue. *Circulation: Cardiovascular Genetics*, **2016**, 9, 185-8		12
141	Proteomic and metabolomic changes driven by elevating myocardial creatine suggest novel metabolic feedback mechanisms. *Amino Acids*, **2016**, 48, 1969-81	3.5	13
140	Vascular smooth muscle cell calcification is mediated by regulated exosome secretion. *Circulation Research*, **2015**, 116, 1312-23	15.7	319

139	Comparative analysis of statistical methods used for detecting differential expression in label-free mass spectrometry proteomics. *Journal of Proteomics*, **2015**, 129, 83-92	3.9	37
138	T1 values by conservative septal postprocessing approach are superior in relating to the interstitial myocardial fibrosis: findings from patients with severe aortic stenosis. *Journal of Cardiovascular Magnetic Resonance*, **2015**, 17,	6.9	8
137	ADAMTS-7 inhibits re-endothelialization of injured arteries and promotes vascular remodeling through cleavage of thrombospondin-1. *Circulation*, **2015**, 131, 1191-201	16.7	84
136	XBP 1-Deficiency Abrogates Neointimal Lesion of Injured Vessels Via Cross Talk With the PDGF Signaling. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2015**, 35, 2134-44	9.4	30
135	MicroRNA Biomarkers for Coronary Artery Disease?. *Current Atherosclerosis Reports*, **2015**, 17, 70	6	28
134	Transformative Impact of Proteomics on Cardiovascular Health and Disease: A Scientific Statement From the American Heart Association. *Circulation*, **2015**, 132, 852-72	16.7	112
133	Native T1 in discrimination of acute and convalescent stages in patients with clinical diagnosis of myocarditis: a proposed diagnostic algorithm using CMR. *JACC: Cardiovascular Imaging*, **2015**, 8, 37-46	8.4	141
132	Signature of circulating microRNAs in osteoarthritis. *Annals of the Rheumatic Diseases*, **2015**, 74, e18	2.4	108
131	Novel methodologies for biomarker discovery in atherosclerosis. *European Heart Journal*, **2015**, 36, 2635-42	9.5	133
130	Asymmetric dimethylarginine and cardiovascular risk: systematic review and meta-analysis of 22 prospective studies. *Journal of the American Heart Association*, **2015**, 4, e001833	6	95
129	Functional Genomics of Cardioprotection by Ischemic Conditioning and the Influence of Comorbid Conditions: Implications in Target Identification. *Current Drug Targets*, **2015**, 16, 904-11	3	35
128	Discrimination and net reclassification of cardiovascular risk with lipoprotein(a): prospective 15-year outcomes in the Bruneck Study. *Journal of the American College of Cardiology*, **2014**, 64, 851-60	15.1	175
127	LDL-receptor-deficient mice lacking microRNA-143/145 have less atherosclerosis. *Thrombosis and Haemostasis*, **2014**, 112, 629	7	1
126	Cardiac fibroblast-derived microRNA passenger strand-enriched exosomes mediate cardiomyocyte hypertrophy. *Journal of Clinical Investigation*, **2014**, 124, 2136-46	15.9	617
125	Lipidomics: quest for molecular lipid biomarkers in cardiovascular disease. *Circulation: Cardiovascular Genetics*, **2014**, 7, 941-54		53
124	Phosphoregulation of the titin-cap protein telethonin in cardiac myocytes. *Journal of Biological Chemistry*, **2014**, 289, 1282-93	5.4	30
123	Matrix metalloproteinase-8 promotes vascular smooth muscle cell proliferation and neointima formation. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 90-8	9.4	44
122	ESC Working Group on Myocardial Function Position Paper: how to study the right ventricle in experimental models. *European Journal of Heart Failure*, **2014**, 16, 509-18	12.3	10

121	Redox state of pentraxin 3 as a novel biomarker for resolution of inflammation and survival in sepsis. *Molecular and Cellular Proteomics*, **2014**, 13, 2545-57	7.6	25
120	Long-term therapeutic silencing of miR-33 increases circulating triglyceride levels and hepatic lipid accumulation in mice. *EMBO Molecular Medicine*, **2014**, 6, 1133-41	12	104
119	Targeting myocardial remodelling to develop novel therapies for heart failure: a position paper from the Working Group on Myocardial Function of the European Society of Cardiology. *European Journal of Heart Failure*, **2014**, 16, 494-508	12.3	71
118	Role of miR-195 in aortic aneurysmal disease. *Circulation Research*, **2014**, 115, 857-66	15.7	82
117	Lipidomics profiling and risk of cardiovascular disease in the prospective population-based Bruneck study. *Circulation*, **2014**, 129, 1821-31	16.7	302
116	Effects of heparin on temporal microRNA profiles. *Journal of the American College of Cardiology*, **2014**, 63, 940-1	15.1	16
115	Proteomics and metabolomics for mechanistic insights and biomarker discovery in cardiovascular disease. *Revista Espanola De Cardiologia (English Ed)*, **2013**, 66, 657-61	0.7	20
114	Native T1 mapping in differentiation of normal myocardium from diffuse disease in hypertrophic and dilated cardiomyopathy. *JACC: Cardiovascular Imaging*, **2013**, 6, 475-84	8.4	309
113	Gestational diabetes mellitus impairs Nrf2-mediated adaptive antioxidant defenses and redox signaling in fetal endothelial cells in utero. *Diabetes*, **2013**, 62, 4088-97	0.9	78
112	Cytochrome P4502S1: a novel monocyte/macrophage fatty acid epoxygenase in human atherosclerotic plaques. *Basic Research in Cardiology*, **2013**, 108, 319	11.8	33
111	The hypoxia-inducible microRNA cluster miR-199a~214 targets myocardial PPAR□and impairs mitochondrial fatty acid oxidation. *Cell Metabolism*, **2013**, 18, 341-54	24.6	162
110	Oxidative stress in atherosclerosis: the role of microRNAs in arterial remodeling. *Free Radical Biology and Medicine*, **2013**, 64, 69-77	7.8	60
109	La prote□mica y la metabol□mica: los mecanismos de la enfermedad cardiovascular y el descubrimiento de biomarcadores. *Revista Espanola De Cardiologia*, **2013**, 66, 657-661	1.5	20
108	Extracellular matrix secretion by cardiac fibroblasts: role of microRNA-29b and microRNA-30c. *Circulation Research*, **2013**, 113, 1138-47	15.7	141
107	Macrophage microRNA-155 promotes cardiac hypertrophy and failure. *Circulation*, **2013**, 128, 1420-32	16.7	190
106	Histone deacetylase 3 unconventional splicing mediates endothelial-to-mesenchymal transition through transforming growth factor □. *Journal of Biological Chemistry*, **2013**, 288, 31853-66	5.4	27
105	MicroRNAs within the continuum of postgenomics biomarker discovery. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2013**, 33, 206-14	9.4	77
104	Proteomic identification of matrix metalloproteinase substrates in the human vasculature. *Circulation: Cardiovascular Genetics*, **2013**, 6, 106-17		40

103	Effects of perhexiline-induced fuel switch on the cardiac proteome and metabolome. *Journal of Molecular and Cellular Cardiology*, **2013**, 55, 27-30	5.8	25
102	Proteomics: from single molecules to biological pathways. *Cardiovascular Research*, **2013**, 97, 612-22	9.9	55
101	Circulating microRNAs as novel biomarkers for platelet activation. *Circulation Research*, **2013**, 112, 595-600	15.7	285
100	A sequential extraction methodology for cardiac extracellular matrix prior to proteomics analysis. *Methods in Molecular Biology*, **2013**, 1005, 215-23	1.4	19
99	Gene network and proteomic analyses of cardiac responses to pathological and physiological stress. *Circulation: Cardiovascular Genetics*, **2013**, 6, 588-97		19
98	Heterogeneity in neutrophil microparticles reveals distinct proteome and functional properties. *Molecular and Cellular Proteomics*, **2013**, 12, 2205-19	7.6	140
97	Glycoproteomic analysis of the secretome of human endothelial cells. *Molecular and Cellular Proteomics*, **2013**, 12, 956-78	7.6	82
96	Multidimensional separation prior to mass spectrometry: getting closer to the bottom of the iceberg. *Proteomics*, **2013**, 13, 2942-3	4.8	3
95	Functional role of matrix metalloproteinase-8 in stem/progenitor cell migration and their recruitment into atherosclerotic lesions. *Circulation Research*, **2013**, 112, 35-47	15.7	44
94	Proteomics in aortic aneurysm--what have we learnt so far?. *Proteomics - Clinical Applications*, **2013**, 7, 504-15	3.1	5
93	Impact of intravenous heparin on quantification of circulating microRNAs in patients with coronary artery disease. *Thrombosis and Haemostasis*, **2013**, 110, 609-15	7	75
92	Calpain inhibition stabilizes the platelet proteome and reactivity in diabetes. *Blood*, **2012**, 120, 415-23	2.2	44
91	Profiling of circulating microRNAs: from single biomarkers to re-wired networks. *Cardiovascular Research*, **2012**, 93, 555-62	9.9	185
90	MicroRNAs in vascular and metabolic disease. *Circulation Research*, **2012**, 110, 508-22	15.7	190
89	Oxidation-specific biomarkers, prospective 15-year cardiovascular and stroke outcomes, and net reclassification of cardiovascular events. *Journal of the American College of Cardiology*, **2012**, 60, 2218-29	15.1	150
88	The -omics era: proteomics and lipidomics in vascular research. *Atherosclerosis*, **2012**, 221, 12-7	3.1	34
87	Atheroprotective communication between endothelial cells and smooth muscle cells through miRNAs. *Nature Cell Biology*, **2012**, 14, 249-56	23.4	967
86	Pathogenesis of varicose veins. *Journal of Vascular and Interventional Radiology*, **2012**, 23, 33-9; quiz 40	2.4	41

85	Method for protein subfractionation of cardiovascular tissues before DIGE analysis. *Methods in Molecular Biology*, **2012**, 854, 287-97	1.4	7
84	Prospective study on circulating MicroRNAs and risk of myocardial infarction. *Journal of the American College of Cardiology*, **2012**, 60, 290-9	15.1	357
83	Analytical challenges and technical limitations in assessing circulating miRNAs. *Thrombosis and Haemostasis*, **2012**, 108, 592-8	7	98
82	Novel role of ADAMTS-5 protein in proteoglycan turnover and lipoprotein retention in atherosclerosis. *Journal of Biological Chemistry*, **2012**, 287, 19341-5	5.4	69
81	Proteomics analysis of cardiac extracellular matrix remodeling in a porcine model of ischemia/reperfusion injury. *Circulation*, **2012**, 125, 789-802	16.7	156
80	Proteomics of Atherosclerosis **2012**, 249-266		0
79	Terminal differentiation, advanced organotypic maturation, and modeling of hypertrophic growth in engineered heart tissue. *Circulation Research*, **2011**, 109, 1105-14	15.7	111
78	Proteomic characterization of human early pro-angiogenic cells. *Journal of Molecular and Cellular Cardiology*, **2011**, 50, 333-6	5.8	38
77	Metabolic homeostasis is maintained in myocardial hibernation by adaptive changes in the transcriptome and proteome. *Journal of Molecular and Cellular Cardiology*, **2011**, 50, 982-90	5.8	22
76	Nitrosative protein oxidation is modulated during early endotoxemia. *Nitric Oxide - Biology and Chemistry*, **2011**, 25, 118-24	5	17
75	Preoperative high-dose atorvastatin for prevention of atrial fibrillation after cardiac surgery: a randomized controlled trial. *Journal of Thoracic and Cardiovascular Surgery*, **2011**, 141, 244-8	1.5	32
74	Substrate modifications precede the development of atrial fibrillation after cardiac surgery: a proteomic study. *Annals of Thoracic Surgery*, **2011**, 92, 104-10	2.7	18
73	Does Late Enhancement Imaging Decipher the Role of Myocardial Fibrosis in Hypertrophic Cardiomyopathy?. *Current Cardiovascular Imaging Reports*, **2011**, 4, 87-89	0.7	
72	Adaptation to HIF-1 deficiency by upregulation of the AMP/ATP ratio and phosphofructokinase activation in hepatomas. *BMC Cancer*, **2011**, 11, 198	4.8	17
71	Proteomics: a reality-check for putative stem cells. *Circulation Research*, **2011**, 108, 499-511	15.7	20
70	Extracellular matrix composition and remodeling in human abdominal aortic aneurysms: a proteomics approach. *Molecular and Cellular Proteomics*, **2011**, 10, M111.008128	7.6	150
69	Recent highlights of metabolomics in cardiovascular research. *Circulation: Cardiovascular Genetics*, **2011**, 4, 463-4		7
68	Calcium regulates key components of vascular smooth muscle cell-derived matrix vesicles to enhance mineralization. *Circulation Research*, **2011**, 109, e1-12	15.7	269

67	Coupling vascular and myocardial inflammatory injury into a common phenotype of cardiovascular dysfunction: systemic inflammation and aging - a mini-review. *Gerontology*, **2011**, 57, 295-303	5.5	30
66	Redox regulation of soluble epoxide hydrolase by 15-deoxy-delta-prostaglandin J2 controls coronary hypoxic vasodilation. *Circulation Research*, **2011**, 108, 324-34	15.7	43
65	Chromobox protein homolog 3 is essential for stem cell differentiation to smooth muscles in vitro and in embryonic arteriogenesis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 1842-52	9.4	23
64	Comparative lipidomics profiling of human atherosclerotic plaques. *Circulation: Cardiovascular Genetics*, **2011**, 4, 232-42		147
63	Human cardiac and bone marrow stromal cells exhibit distinctive properties related to their origin. *Cardiovascular Research*, **2011**, 89, 650-60	9.9	96
62	Comparative proteomics profiling reveals role of smooth muscle progenitors in extracellular matrix production. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2010**, 30, 1325-32	9.4	31
61	Histone deacetylase 7 controls endothelial cell growth through modulation of beta-catenin. *Circulation Research*, **2010**, 106, 1202-11	15.7	95
60	Proteomics characterization of extracellular space components in the human aorta. *Molecular and Cellular Proteomics*, **2010**, 9, 2048-62	7.6	197
59	Proteomics analysis of the cardiac myofilament subproteome reveals dynamic alterations in phosphatase subunit distribution. *Molecular and Cellular Proteomics*, **2010**, 9, 497-509	7.6	66
58	Short communication: asymmetric dimethylarginine impairs angiogenic progenitor cell function in patients with coronary artery disease through a microRNA-21-dependent mechanism. *Circulation Research*, **2010**, 107, 138-43	15.7	151
57	Plasma microRNA profiling reveals loss of endothelial miR-126 and other microRNAs in type 2 diabetes. *Circulation Research*, **2010**, 107, 810-7	15.7	1086
56	Proteomics, metabolomics, and immunomics on microparticles derived from human atherosclerotic plaques. *Circulation: Cardiovascular Genetics*, **2009**, 2, 379-88		98
55	Proteomics identifies thymidine phosphorylase as a key regulator of the angiogenic potential of colony-forming units and endothelial progenitor cell cultures. *Circulation Research*, **2009**, 104, 32-40	15.7	111
54	Identification of cardiac myosin-binding protein C as a candidate biomarker of myocardial infarction by proteomics analysis. *Molecular and Cellular Proteomics*, **2009**, 8, 2687-99	7.6	60
53	Proteomics of acute coronary syndromes. *Current Atherosclerosis Reports*, **2009**, 11, 188-95	6	33
52	Proteomic analysis of the secretome of human umbilical vein endothelial cells using a combination of free-flow electrophoresis and nanoflow LC-MS/MS. *Proteomics*, **2009**, 9, 4991-6	4.8	39
51	Proteomic and metabolomic analysis of cardioprotection: Interplay between protein kinase C epsilon and delta in regulating glucose metabolism of murine hearts. *Journal of Molecular and Cellular Cardiology*, **2009**, 46, 268-77	5.8	69
50	Asymmetric and symmetric dimethylarginines are of similar predictive value for cardiovascular risk in the general population. *Atherosclerosis*, **2009**, 205, 261-5	3.1	57

49	Proteomic analysis reveals presence of platelet microparticles in endothelial progenitor cell cultures. *Blood*, **2009**, 114, 723-32	2.2	237
48	Lipoprotein-associated phospholipase A2 activity, ferritin levels, metabolic syndrome, and 10-year cardiovascular and non-cardiovascular mortality: results from the Bruneck study. *European Heart Journal*, **2009**, 30, 107-15	9.5	81
47	Combined metabolomic and proteomic analysis of human atrial fibrillation. *Journal of the American College of Cardiology*, **2008**, 51, 585-94	15.1	162
46	Proteomic and metabolomic analysis of smooth muscle cells derived from the arterial media and adventitial progenitors of apolipoprotein E-deficient mice. *Circulation Research*, **2008**, 102, 1046-56	15.7	52
45	Metabolomics: ready for the prime time?. *Circulation: Cardiovascular Genetics*, **2008**, 1, 58-65		51
44	Letter by Metzler et al regarding article, "Intracoronary KAI-9803 as an adjunct to primary coronary intervention for acute ST-segment elevation myocardial infarction". *Circulation*, **2008**, 118, e80	16.7	3
43	Proteomic analysis of secretory proteins and vesicles in vascular research. *Proteomics - Clinical Applications*, **2008**, 2, 882-91	3.1	21
42	Proteomics and metabolomics combined in cardiovascular research. *Trends in Cardiovascular Medicine*, **2007**, 17, 43-8	6.9	57
41	Oxidized phospholipids, lipoprotein(a), lipoprotein-associated phospholipase A2 activity, and 10-year cardiovascular outcomes: prospective results from the Bruneck study. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2007**, 27, 1788-95	9.4	186
40	Protein kinase D selectively targets cardiac troponin I and regulates myofilament Ca2+ sensitivity in ventricular myocytes. *Circulation Research*, **2007**, 100, 864-73	15.7	88
39	Integrated membrane protein analysis of mature and embryonic stem cell-derived smooth muscle cells using a novel combination of CyDye/biotin labeling. *Molecular and Cellular Proteomics*, **2007**, 6, 1788-97	7.6	18
38	The role of oxidant stress in angiotensin II-mediated contraction of human resistance arteries in the state of health and the presence of cardiovascular disease. *Vascular Pharmacology*, **2006**, 45, 395-9	5.9	7
37	Proteomics-based development of biomarkers in cardiovascular disease: mechanistic, clinical, and therapeutic insights. *Molecular and Cellular Proteomics*, **2006**, 5, 1853-64	7.6	68
36	Oxidized phospholipids predict the presence and progression of carotid and femoral atherosclerosis and symptomatic cardiovascular disease: five-year prospective results from the Bruneck study. *Journal of the American College of Cardiology*, **2006**, 47, 2219-28	15.1	140
35	Oxidized low-density lipoprotein autoantibodies, chronic infections, and carotid atherosclerosis in a population-based study. *Journal of the American College of Cardiology*, **2006**, 47, 2436-43	15.1	55
34	Proteomic analysis reveals higher demand for antioxidant protection in embryonic stem cell-derived smooth muscle cells. *Proteomics*, **2006**, 6, 6437-46	4.8	26
33	Metabolic profiling of hypoxia-inducible factor-1α deficient and wild type Hepa-1 cells: effects of hypoxia measured by 1H magnetic resonance spectroscopy. *Metabolomics*, **2006**, 1, 293-303	4.7	14
32	Association of serum-soluble heat shock protein 60 with carotid atherosclerosis: clinical significance determined in a follow-up study. *Stroke*, **2005**, 36, 2571-6	6.7	73

31	Role of oxidative stress in angiotensin-II mediated contraction of human conduit arteries in patients with cardiovascular disease. *Vascular Pharmacology*, **2005**, 43, 277-82	5.9	16
30	Proteomic dataset of Sca-1+ progenitor cells. *Proteomics*, **2005**, 5, 4533-45	4.8	15
29	Proteomic dataset of mouse aortic smooth muscle cells. *Proteomics*, **2005**, 5, 4546-57	4.8	31
28	Proteomic and metabolomic analyses of atherosclerotic vessels from apolipoprotein E-deficient mice reveal alterations in inflammation, oxidative stress, and energy metabolism. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2005**, 25, 2135-42	9.4	151
27	Proteomic and metabolomic analysis of vascular smooth muscle cells: role of PKCdelta. *Circulation Research*, **2004**, 94, e87-96	15.7	45
26	Ischemic preconditioning exaggerates cardiac damage in PKC-delta null mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H946-56	5.2	93
25	Loss of PKC-delta alters cardiac metabolism. *American Journal of Physiology - Heart and Circulatory Physiology*, **2004**, 287, H937-45	5.2	64
24	Vascular proteomics: linking proteomic and metabolomic changes. *Proteomics*, **2004**, 4, 3751-61	4.8	69
23	Mechanical stretch-induced apoptosis in smooth muscle cells is mediated by beta1-integrin signaling pathways. *Hypertension*, **2003**, 41, 903-11	8.5	106
22	Increased risk of atherosclerosis is confined to CagA-positive Helicobacter pylori strains: prospective results from the Bruneck study. *Stroke*, **2003**, 34, 610-5	6.7	86
21	Cross-reactive B-cell epitopes of microbial and human heat shock protein 60/65 in atherosclerosis. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2003**, 23, 1060-5	9.4	132
20	Smooth muscle cells in transplant atherosclerotic lesions are originated from recipients, but not bone marrow progenitor cells. *Circulation*, **2002**, 106, 1834-9	16.7	169
19	Mechanical stress-induced DNA damage and rac-p38MAPK signal pathways mediate p53-dependent apoptosis in vascular smooth muscle cells. *FASEB Journal*, **2002**, 16, 1423-5	0.9	129
18	Loss of p53 accelerates neointimal lesions of vein bypass grafts in mice. *Circulation Research*, **2002**, 90, 197-204	15.7	80
17	Both donor and recipient origins of smooth muscle cells in vein graft atherosclerotic lesions. *Circulation Research*, **2002**, 91, e13-20	15.7	119
16	Active and passive smoking, chronic infections, and the risk of carotid atherosclerosis: prospective results from the Bruneck Study. *Stroke*, **2002**, 33, 2170-6	6.7	89
15	Smooth muscle cell apoptosis in arteriosclerosis. *Experimental Gerontology*, **2001**, 36, 969-87	4.5	69
14	Chronic infections and the risk of carotid atherosclerosis: prospective results from a large population study. *Circulation*, **2001**, 103, 1064-70	16.7	432

13	Exacerbated vein graft arteriosclerosis in protein kinase C□ull mice. *Journal of Clinical Investigation*, **2001**, 108, 1505-1512	15.9	199
12	Biomechanical stress-induced apoptosis in vein grafts involves p38 mitogen-activated protein kinases. *FASEB Journal*, **2000**, 14, 261-70	0.9	134
11	Reduced neointima hyperplasia of vein bypass grafts in intercellular adhesion molecule-1-deficient mice. *Circulation Research*, **2000**, 86, 434-40	15.7	77
10	Serum soluble heat shock protein 60 is elevated in subjects with atherosclerosis in a general population. *Circulation*, **2000**, 102, 14-20	16.7	528
9	Rapid development of vein graft atheroma in ApoE-deficient mice. *American Journal of Pathology*, **2000**, 157, 659-69	5.8	68
8	Infections, immunity, and atherosclerosis: associations of antibodies to Chlamydia pneumoniae, Helicobacter pylori, and cytomegalovirus with immune reactions to heat-shock protein 60 and carotid or femoral atherosclerosis. *Circulation*, **2000**, 102, 833-9	16.7	253
7	Association of serum antibodies to heat-shock protein 65 with carotid atherosclerosis : clinical significance determined in a follow-up study. *Circulation*, **1999**, 100, 1169-74	16.7	213
6	Cyclic strain stress-induced mitogen-activated protein kinase (MAPK) phosphatase 1 expression in vascular smooth muscle cells is regulated by Ras/Rac-MAPK pathways. *Journal of Biological Chemistry*, **1999**, 274, 25273-80	5.4	161
5	Inhibition of arteriosclerosis by T-cell depletion in normocholesterolemic rabbits immunized with heat shock protein 65. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **1999**, 19, 1905-11	9.4	46
4	Endothelial cytotoxicity mediated by serum antibodies to heat shock proteins of Escherichia coli and Chlamydia pneumoniae: immune reactions to heat shock proteins as a possible link between infection and atherosclerosis. *Circulation*, **1999**, 99, 1560-6	16.7	260
3	Macrophage-lysis mediated by autoantibodies to heat shock protein 65/60. *Atherosclerosis*, **1997**, 128, 27-38	3.1	46
2	SARS-CoV-2 RNAemia and proteomic biomarker trajectory inform prognostication in COVID-19 patients admitted to intensive care		2
1	Proteome and functional decline as platelets age in the circulation		1